



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**SUNREN TELECOM LABORATORY, A DIVISION OF M/S
SUNREN TECHNICAL SOLUTIONS PVT. LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

C-475, MIDC PAVANE, TTC INDUSTRIAL AREA, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-7995

Issue Date: 18/10/2023

Valid Until:

17/10/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: Sunren Technical Solutions Private Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SUNREN TELECOM LABORATORY, A DIVISION OF M/S SUNREN TECHNICAL SOLUTIONS PVT. LTD., C-475, MIDC PAVANE, TTC INDUSTRIAL AREA, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7995	Page No	1 of 41
Validity	18/10/2023 to 17/10/2025	Last Amended on	23/11/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	CLEARANCES and CREEPAGE DISTANCES	IS-616:2017/ IEC 60065 : 2014 (Cl.13.0)
2	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	CLEARANCES and CREEPAGE DISTANCES	IS-616:2017/ IEC 60065 : 2014 (Cl.13.0)
3	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	CLEARANCES and CREEPAGE DISTANCES	IS-616:2017/ IEC 60065 : 2014 (Cl.13.0)
4	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	CLEARANCES and CREEPAGE DISTANCES	IS-616:2017/ IEC 60065 : 2014 (Cl.13.0)
5	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Components (Verification of reports as per relevant Standards)	IS-616:2017/ IEC 60065 : 2014 (Cl.14.0)
6	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Constructional requirements with regard to the protection against electric shock	IS-616:2017/ IEC 60065 : 2014 (Cl. No.8)
7	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Constructional requirements with regard to the protection against electric shock	IS-616:2017/ IEC 60065 : 2014 (Cl. No.8)
8	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Constructional requirements with regard to the protection against electric shock	IS-616:2017/ IEC 60065 : 2014 (Cl. No.8)
9	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Constructional requirements with regard to the protection against electric shock	IS-616:2017/ IEC 60065 : 2014 (Cl. No.8)
10	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Electric shock hazard under normal operating condition	IS-616:2017/ IEC 60065 : 2014 (Cl.9.1 , 9.2)
11	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Electric shock hazard under normal operating condition	IS-616:2017/ IEC 60065 : 2014 (Cl.9.1 , 9.2)
12	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Electric shock hazard under normal operating condition	IS-616:2017/ IEC 60065 : 2014 (Cl.9.1, 9.2)
13	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Electrical connection and mechanical fixings	IS-616:2017/ IEC 60065 : 2014
14	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Electrical connection and mechanical fixings	IS-616:2017/ IEC 60065 : 2014 (Cl.17.0)
15	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	External Flexible cords	IS-616:2017/ IEC 60065 : 2014 (Cl.16.0)
16	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	External Flexible cords	IS-616:2017/ IEC 60065 : 2014 (Cl.16.0)



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17	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	External Flexible cords	IS-616:2017/ IEC 60065 : 2014 (Cl.16.0)
18	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Fault Conditions	IS-616:2017/ IEC 60065 : 2014 (Cl.11)
19	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Fault Conditions	IS-616:2017/ IEC 60065 : 2014 (Cl.11)
20	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Heating under normal operating conditions- General	IS-616:2017/ IEC 60065 : 2014 (Cl. No.7.1)
21	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Heating under normal operating conditions- General	IS-616:2017/ IEC 60065 : 2014 (Cl. No.7.1)
22	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Heating under normal operating conditions- Heat resistance of insulating material	IS-616:2017/ IEC 60065 : 2014 (Cl. No.7.2)
23	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Humidity treatment	IS-616:2017/ IEC 60065 : 2014 (Cl.10.3)
24	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Input Rating	IS-616:2017/ IEC 60065 : 2014 (Cl No 4.2 & 5.1)
25	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Input Rating	IS-616:2017/ IEC 60065 : 2014 (Cl No 4.2 & 5.1)
26	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Input Rating	IS-616:2017/ IEC 60065 : 2014 (Cl No 4.2 & 5.1)
27	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Input Rating	IS-616:2017/ IEC 60065 : 2014 (Cl No 4.2 & 5.1)
28	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Input Rating	IS-616:2017/ IEC 60065 : 2014 (Cl No 4.2 & 5.1)
29	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Insulation resistance and dielectric strength	IS-616:2017/ IEC 60065 : 2014 (Cl.10.4)
30	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Insulation resistance and dielectric strength	IS-616:2017/ IEC 60065 : 2014 (Cl.10.4)
31	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Marking & Instructions- Identification & supply ratings	IS-616:2017/ IEC 60065 : 2014 (Cl. No. 5.1,5.3, 5.4, 5.5)
32	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (12.6)
33	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (12.7)
34	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (Cl.12.1.3)



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35	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (Cl.12.2)
36	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (Cl.12.3)
37	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength	IS-616:2017/ IEC 60065 : 2014 (Cl.12.5)
38	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength Drawers	IS-616:2017/ IEC 60065 : 2014 (Cl.12.4)
39	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength Drop test	IS-616:2017/ IEC 60065 : 2014 (Cl.12.1.5)
40	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength Impact test	IS-616:2017/ IEC 60065 : 2014 (Cl.12.1.4)
41	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Mechanical Strength Stress relief test	IS-616:2017/ IEC 60065 : 2014 (Cl.12.1.6)
42	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Stability and mechanical hazards	IS-616:2017/ IEC 60065 : 2014 (Cl.19.0)
43	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Surge Test	IS-616:2017/ IEC 60065 : 2014 (Cl.10.2)
44	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Terminals	IS-616:2017/ IEC 60065 : 2014 (Cl.15.0)
45	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Terminals	IS-616:2017/ IEC 60065 : 2014 (Cl.15.0)
46	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar Electronic Apparatus	Terminals	IS-616:2017/ IEC 60065 : 2014 (Cl.15.0)
47	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Abnormal operation	(Cl. No.19)IS 302-1:2008+A4
48	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Abnormal operations	(Cl. No.19)IS 302-1:2008+A4
49	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Classification	(Cl. No.6)IS 302-1:2008+A4
50	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Clearances, creepage distances and solid insulation	(Cl. No.29)IS 302-1:2008+A4
51	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Clearances, creepage distances and solid insulation	(Cl. No.29)IS 302-1:2008+A4



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52	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Components	(Cl. No.24)IS 302-1:2008+A4
53	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Construction	(Cl. No.22)IS 302-1:2008+A4
54	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Heating test	(Cl. No.11)IS 302-1:2008+A4
55	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Heating test	(Cl. No.11)IS 302-1:2008+A4
56	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Internal wiring	(Cl. No.23)IS 302-1:2008+A4
57	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Leakage current and electric strength	(Cl. No.16)IS 302-1:2008+A4
58	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Leakage current and electric strength	(Cl. No.16)IS 302-1:2008+A4
59	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Leakage current and electric strength at operating temperature	(Cl. No.13) IS 302-1:2008+A4
60	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Leakage current and electric strength at operating temperature	(Cl. No.13)IS 302-1:2008+A4
61	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Marking and instructions	(Cl. No. 7)IS 302-1:2008+A4
62	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Mechanical strength	(Cl. No.21)IS 302-1:2008+A4
63	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Mechanical strength	(Cl. No.21)IS 302-1:2008+A4
64	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Moisture resistance	(Cl. No.15)IS 302-1:2008+A4
65	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Overload protection	(Cl. No.17)IS 302-1:2008+A4



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66	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Overload protection	(Cl. No.17)IS 302-1:2008+A4
67	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Power Input and current test	(Cl. No.10)IS 302-1:2008+A4
68	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Power Input and current test	(Cl. No.10)IS 302-1:2008+A4
69	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Power Input and current test	(Cl. No.10)IS 302-1:2008+A4
70	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Protection against access to live part test	(Cl. No. 8) IS 302-1:2008+A4
71	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Protection against access to live part test	(Cl. No. 8)IS 302-1:2008+A4
72	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Provision for earthing	(Cl. No.27)IS 302-1:2008+A4
73	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Radiation, toxicity and similar hazards	(Cl. No.32)IS 302-1:2008+A4
74	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Screws and connections	(Cl. No.28)IS 302-1:2008+A4
75	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Stability and mechanical hazards	(Cl. No.20)IS 302-1:2008+A4
76	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Supply connection and external flexible cords	(Cl. No.25)IS 302-1:2008+A4
77	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Supply connection and external flexible cords	(Cl. No.25)IS 302-1:2008+A4
78	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Terminals for external conductors	(Cl. No.26)IS 302-1:2008+A4
79	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Adapters for household and similar electrical appliances	Terminals for external conductors	(Cl. No.26)IS 302-1:2008+A4



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80	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Conducted Emission test (Class A & B)	TEC/SD/DD/EMC-221/05/OCT-16, CISPR14-1: 2016, CISPR 22: 2008, EN 55032:2012, CISPR 32
81	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Conducted Emission test (Class A & B)	TEC/SD/DD/EMC-221/05/OCT-16, CISPR14-1: 2016, CISPR 22: 2008, EN 55032:2012, CISPR 32
82	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	ELECTRICAL FAST TRANSIENT (EFT)/ Burst Test	EN 61000-4-4
83	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	ELECTRICAL FAST TRANSIENT (EFT)/ Burst Test	IEC 61000-4-4, TEC/SD/DD/EMC-221/05/OCT-16
84	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Electrostatic Discharge Immunity Test	BS EN 55014-2
85	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Electrostatic Discharge Immunity Test	EN 61000-4-2
86	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Electrostatic Discharge Immunity Test	IEC 61000-4-2, TEC/SD/DD/EMC-221/05/OCT-16
87	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Surge Immunity Test	EN 61000-4-5
88	ELECTRONICS- EMC TEST FACILITY	All Electronic and Electrical, Information Technology and Telecommunications Equipment	Surge Immunity Test	IEC 61000-4-5, TEC/SD/DD/EMC-221/05/OCT-16
89	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Cold (Low Temperature) Test	IEC 60068-2-1
90	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Cold Test (Low Temperature)	IS 9000 (Part II/Sec 1 to 4)
91	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Change of Temperature	IEC 60068-2-14
92	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Change of Temperature	IS 9000: (Part 14)
93	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Cyclic Test	IEC 60068-2-30



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94	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Cyclic Test	IS 9000:1986 (Part V)
95	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Steady State	IEC60068-2-78
96	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Steady State	IS 9000:2008 (Part IV)
97	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Drop, Topple & Fall Test	IEC60068-2-31
98	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Drop, Topple & Fall Test	IS 9000:1979 Part VII -Sec 3 & 4
99	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Dry Heat Test (High Temperature)	IEC 60068-2-2
100	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Dry Heat Test (High Temperature)	IS 9000: (Part III/ Sec 1 to 5)
101	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electrical / Electronic Appliances, Office automation, IT products, Telecom products and Objects having external dimensions	Ingress Protection IP : IP 1X, IP 2X, IP 3X, IP 4X, IP X3, IP X4, IP X5, IP X6, IP X7	IS/IEC 60529
102	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Change of Temperature	QM 333/Issue-2
103	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Cold Test (Low Temperature)	QM 333/Issue-2
104	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Cyclic Test	QM 333/Issue-2
105	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Damp Heat Steady State	QM 333/Issue-2
106	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Drop, Topple & Fall Test	QM 333/Issue-2
107	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Telecom Equipment having external dimensions less than 1.2 meters x 1.2 meters x 0.9 meters	Dry Heat Test (High Temperature)	QM 333/Issue-2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
108	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Maximum Power	IEC 62623:2012, IEC 62301:2011
109	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Power-Active State	IEC 62623:2012, IEC 62301:2011
110	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Power-Long Idle Mode	IEC 62623:2012, IEC 62301:2011
111	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Power-Off Mode	IEC 62623:2012, IEC 62301:2011
112	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Power-Short Idle Mode	IEC 62623:2012, IEC 62301:2011
113	ELECTRONICS- IT EQUIPMENT	Computer, Laptop, Notebook computers, Network Devices	Power-Sleep Mode	IEC 62623:2012, IEC 62301:2011
114	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Protection from Hazards Protection from Electric Shock & Energy Hazards	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CL No. 2.1
115	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Abnormal operating & fault conditions	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 5.3
116	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Clearances, Creepage distances and distances through insulation	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (ONLY CI. 2.10.1, 2.10.2, 2.10.3, 2.10.4, 2.10.5.1, 2.10.5.2, 2.10.5.3, 2.10.5.4, 2.10.5.5, 2.10.5.7, 2.10.5.9, 2.10.5.10, 2.10.6)
117	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Clearances, Creepage distances and distances through insulation	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (ONLY CI. 2.10.1, 2.10.2, 2.10.3, 2.10.4, 2.10.5.1, 2.10.5.2, 2.10.5.3, 2.10.5.4, 2.10.5.5, 2.10.5.7, 2.10.5.9, 2.10.5.10, 2.10.6)



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
118	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Connection to cable Distribution System	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (Cl. 7.1, 7.2,7.3, 7.4 except 7.4.2)
119	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Connections to mains Supply	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (Cl. 3.2 except 3.2.5)
120	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Connections to mains Supply	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (Cl. 3.2 except 3.2.5)
121	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Connections to Telecommunication network	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 6.1, 6.2, 6.3
122	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Design & Construction	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) :(Cl. 4.3BatteriesCl. 4.3.8 except 4.3.10, 4.3.11, 4.3.12)
123	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Disconnections from the main Supply	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 3.4
124	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Electric Strength Test	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 5.2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
125	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Electrical Insulation	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.9
126	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Electrical requirements & simulated abnormal conditions Touch current & protective conductor current	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 5.1
127	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Interconnection of equipment	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 3.5
128	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Current Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
129	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Current Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.4
130	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Current Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.4
131	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Current Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.4



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
132	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Power Sources	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.5
133	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Power Sources	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.5
134	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Power Sources	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.5
135	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Limited Power Sources	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.5
136	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Markings & Instructions	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 1.7
137	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Mechanical Strength	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (CI. 4.2 except 4.2.8 , 4.2.9)
138	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Opening in Enclosure	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (CI.4.6 except 4.6.2)



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
139	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Over-current and earth fault protection in primary circuits and Safety Interlocks	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) (Cl. 2.7, 2.8 except 2.8.5 , 2.8.7)
140	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Physical Requirements Stability	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 4.1
141	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Power Interface	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
142	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Power Interface	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
143	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Power Interface	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
144	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Power Interface	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 1.6
145	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Protection against hazardous moving parts	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 4.4



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
146	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Protection against Lightning	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) ITU-T K.21 / K.44
147	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Protection from Hazards Protection from Electric Shock & Energy Hazards	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.1
148	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Protection from Hazards Protection from Electric Shock & Energy Hazards	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.1
149	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Provision for earthing and bonding	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.6
150	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	SELV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
151	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	SELV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013)
152	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	SELV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
153	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	SELV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.2
154	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Thermal Requirements	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 4.5
155	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	TNV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.3
156	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	TNV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.3
157	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	TNV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.3
158	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	TNV Circuits	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 2.3
159	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Wiring Connection and Supply General	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 3.1



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160	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Wiring Terminals for external conductors	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 3.3
161	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment (Computer Systems, Monitors, Printers, Scanners, Keyboards, Telephones, Power Adapters, Automatic Data Processing Machine ,CCTV Cameras, CCTV Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners &Smart watches)	Wiring Terminals for external conductors	IS 13252 (Part 1): 2010 + A1(2013)+A2(2015) IEC 60950-1 :2005+ A1(2009)+A2(2013) CI No. 3.3
162	ELECTRONICS- IT EQUIPMENT	Mobile Phones / Tablet	Message readability	(CI 5.2) IS 16333 (Part-3)
163	ELECTRONICS- IT EQUIPMENT	Mobile Phones / Tablet	Text Inputting	(CI 5.1) IS 16333 (Part-3)
164	ELECTRONICS- IT EQUIPMENT	Telecom / IT products / circuits	Supply Power Measurement	IEC-62623 / IEC 62301
165	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	10 MBPs Interface	Min / Max Peak Voltage for 10 MHz Int	G.703, G.823
166	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic products having CCS7/SS7 Interface	CCS7 ISUP,MTP2, MTP3 Parameters	Annexure To ER of MTCTE
167	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All electronic products having Telecom Interface	ECR	TEC 74046 & Annexure To ER of MTCTE
168	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with 10 MHz Interface	Pulse Shape for 10 MHz & Pulse Width for 1 PPS	G.703 Annex-I
169	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	6dB & 20dB Bandwidth / TX Occupied bandwidth / Carrier bandwidth	ETSI EN 300328 / ETSI EN 301 893 / ETSI EN 300 330 / ETSI EN 300 220/ ETSI EN 302 502/ ETSI EN 300 440
170	ELECTRONICS- TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Accumulated Transmit Time, Frequency occupation and Hopping sequence / TX FHSS	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330



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171	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Adaptive Frequency Agility	ETSI EN 300 220
172	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Adaptivity	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
173	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Adaptivity	ETSI EN 301 893/ EN 302 502/ EN 300 440
174	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Adjacent channel selectivity	ETSI EN 300 330
175	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Carrier frequencies	ETSI EN 301 893/ EN 302 502/ EN 300 440
176	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Clear channel assessment threshold & Polite spectrum access timing parameters	ETSI EN 300 220
177	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Designation of Centre Frequencies and frequency error	ETSI EN 301 893/ EN 302 502/ EN 300 440
178	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Duty Cycle, Tx sequence, Tx-gap	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
179	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Dynamic Frequency Selection (DFS)	ETSI EN 301 893/ EN 302 502/ EN 300 440
180	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Frequency Range / Frequency stability / Frequency of Operation	ETSI EN 300328 / ETSI EN 301 893 / ETSI EN 300 330 / ETSI EN 300 220/ ETSI EN 302 502/ ETSI EN 300 440
181	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Geo location Capability	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330



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182	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Geo-location capability	ETSI EN 301 893/ EN 302 502/ EN 300 440
183	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Hopping Frequency Separation	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
184	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Medium utilization Factor	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
185	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Nominal, and occupied, channel bandwidth	ETSI EN 301 893/ EN 302 502/ EN 300 440
186	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Out of Band / Spurious Emissions	ETSI EN 300328 / ETSI EN 301 893 / ETSI EN 300 330 / ETSI EN 300 220/ ETSI EN 302 502/ ETSI EN 300 440
187	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Peak Power / EIRP / ERP/ Output Power/ Maximum Transmit Power	ETSI EN 300328 / ETSI EN 301 893 / ETSI EN 300 330 / ETSI EN 300 220/ ETSI EN 302 502/ ETSI EN 300 440
188	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Power spectral Density	ETSI EN 300328 / ETSI EN 301 893 / ETSI EN 300 330 / ETSI EN 300 220/ ETSI EN 302 502/ ETSI EN 300 440
189	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Receiver blocking	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
190	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Receiver Blocking	ETSI EN 301 893/ EN 302 502/ EN 300 440
191	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Receiver spurious Emission	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
192	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Receiver spurious emissions	ETSI EN 301 893/ EN 302 502/ EN 300 440



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193	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	RF output power, Transmit Power Control (TPC), Power Density	ETSI EN 301 893/ EN 302 502/ EN 300 440
194	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	RX sensitivity	ETSI EN 300 220
195	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter H-field & Transmitter radiated E-field	ETSI EN 300 330
196	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter RF carrier current	ETSI EN 300 330
197	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter unwanted Emission in OOB Domain	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
198	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328, ETSI EN 300 220, ETSI EN 300 330
199	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter unwanted emissions outside the 5 GHz RLAN bands	ETSI EN 301 893/ EN 302 502/ EN 300 440
200	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	Transmitter unwanted emissions within the 5 GHz RLAN bands	ETSI EN 301 893/ EN 302 502/ EN 300 440
201	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	TX Adjacent channel power / TX Adaptive power control	ETSI EN 300 220
202	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	TX behaviour under low voltage conditions / TX Short term behaviour	ETSI EN 300 220
203	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Electronic Products with RF output	TX Transient	ETSI EN 300 220



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204	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All IP Security Equipment	IPSec, NAT, Policy Functional Test	Annexure to ER of MTCTE
205	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All ONT, ONU & OLTs	Automatic Laser Shut-Down (ALS) or Automatic Power Shut-Down (APSD)	Annexure To ER of MTCTE
206	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	DOS Prevention, SSH v1-2 for CLI in PON	ITU-T G.984.3 section V.2, SSH v2 RFC 4251
207	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Frame loss of PON, Latency of PON, Throughput of PON	RFC 2544
208	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Line test	IEEE 802.3ah
209	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	MAC Address Learning and Aging Control OLT	G.984.1. (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT) & IEEE 802.1Q (Testing Procedure)
210	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	MAC Learning Support at OLT	G.984.1
211	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Maximum Bandwidth Limiting in PON	G.984.3 Section 7.5 (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT)



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212	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Minimum Guaranteed Bandwidth in PON	G.984.3 Section 7.5. (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT)
213	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Minimum two classes of Classification in PON	G.984.3 Section 7.5. (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT)
214	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Operating Wavelength Trans, Recv.	G.984.2, Cl. 8.2.5.1, Cl. 8.2.5.2, IEEE 802.3a
215	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Opt Output Power at ONT & OLT	G.984.2, IEEE 802.3ah
216	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Password Based Authentication in PON	ITU-T G.984.3 section 9.2.2, 12.
217	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Port-id Based VLAN Support at OLT	G.984.1 (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT) & IEEE 802.1Q (Testing Procedure)
218	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Protocol Test for GPON Int	EthOGEN/ G.984.2
219	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Receiver Sensitivity at OLT & OLT	G.984.2, IEEE 802.3ah



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220	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	RF Video Output Bandwidth and Level	Annexure to ER of MTCTE, Annex-J2
221	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Switch Fabric Throughput Capability OLT	G.984.1 (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT)
222	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	Throughput	G.984.1, RFC 2544
223	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All PON Interfaces products	VLAN Stacking to Network Support at OLT	G.984.1, (For GPON OLT), IEEE 802.3ah (FOR EPON OLT), G.987.2 (FOR XGPON OLT), G.9807.1 (FOR XGSPON OLT), G.694.1 (FOR WDM PON OLT), G.989.2 (FOR NGPON2 OLT) & IEEE 802.1Q(testing procedure).
224	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	DTMF Analysis	ITU-T Q.23 (TEC S/INT-2W/02-MAY2001)
225	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	DTMF Analysis	ITU-T Q.23 (TEC S/INT-2W/02-MAY2001)
226	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	Click Test / Condenser Click	ETSI EN 300 001 (TEC/IR/SW/PBX-104/04/OCT 2017)
227	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	Cross Talk	ITU-T Q.552 (TEC/IR/SW/PBX-104/04/OCT 2017)
228	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	Flash	ETSI EN 300 001 (TEC/IR/SW/PBX-104/04/OCT 2017)



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229	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with PSTN 2W analog Interface	Psophometric Noise	ITU-T O.41
230	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	PULSE Dialing Analysis	ETSI EN 300 001 (TEC TSTP IR/SW/PBX-004/03/MAR-2017)
231	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	PULSE Dialing Analysis	ETSI EN 300 001 (TEC TSTP IR/SW/PBX-004/03/MAR-2017)
232	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W analog Interface	PULSE Dialing Analysis	ETSI EN 300 001 (TEC TSTP IR/SW/PBX-004/03/MAR-2017)
233	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with PSTN 2W/4W Analog/Leased Line Interface	Transmit Power Spectral Density	ITU-T G.9700, ITU-T G.992, ITU-T G. 993 (TEC S/INT-2W/02-MAY2001)
234	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products operating on AC Mains	Variation in Supply Voltage and frequency	ETSI EN 300 001 (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
235	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products operating on AC Mains	Variation in Supply Voltage and frequency	ETSI EN 300 001 (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
236	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products operating on DC supply	Variation in DC Supply voltage	TEC/IR/TX/DMX-006/03/DEC-11, TEC/IR/TX/DMX-007/02/SEP-12
237	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with V.35 Interface	Bit Error Rate	ITU-T G.821 & ITU-T V.35
238	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with 10/100 Base Ethernet interface	AC Differential input impedance (Return Loss)	IEEE 802.3



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239	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with 10/100/1000 Base Ethernet interface	Ethernet Performance (Ping) Throughput, Latency, Frame Loss, LDDP, MAC&Packet, ST, Protocol & RFC test SNMP V2,V3 / IPV4 / IPV6 Protocols, Synchronization, Manageability, Link Speed Test, Duplex (Half/Full) Auto Negotiation, CDR Test Parameter	IEC 802.3,IEC 802.1 / RFC2544 , RFC 4862, RFC 4443, RFC 4291, RFC 2460, RFC 4861, RFC 4862,RFC 1981, RFC 5095, RFC4271,RFC4760, RFC2545,RFC 5036,RFC 3031,RFC 5798,RFC 2205,RFC 3209,RFC 3410,RFC 3416, RFC 1305, RFC 5905& RFC suits, TCP as per RFC 793, UDP as per RFC 768, SIP, Audio codecs, TCP, RTP, RTCP,LDDP protocol
240	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with 10/100/1000 Base Ethernet, 1G Optical, 10G, 40G,100G Optical interface & Telecom Interfaces	IPV4 Functional, SNMPv2 Functional, SNMPv3 Functional, SNMPv2 or Qx Protocol functional, SNMPv3 or Qx Protocol functional, Dynamic Routing Functional, Static Routing Functional, TCP Functional, Mac Learning and Packet Forwarding, Spanning Tree Protocol Root Bridge Election Functional, Spanning Tree Protocol Port Blocking Functional, OSPFv2, OSPFv3, IDS Functional, IPS Functional	RFC 791, RFC 3416, RFC 3410, RFC 793, IEEE 802.1d, RFC2328, RFC2740, RFC2460/8200, RFC4862, RFC1981, RFC4443, RFC2545, RFC4271, RFC4760, RFC5036, RFC2516, RFC2865, RFC 5654, RFC 4448, RFC 3916, Annexure to ER of MTCTE
241	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with 10/100/1000 Base Ethernet, 1G Optical, 10G, 40G,100G Optical interface & Telecom Interfaces	SIP,SIPi, RTP,RTCP,TCP,UDP, MGCP,IPV4, Dual Stack, IPV6, DTMF,SCTP,M3UA, Signalling over IP, IP Conformance, SNMP V2, SNMP V3, OSPF, BGP, BGP4, MBGP, LDP, Static, Dynamic routing, Spanning Tree protocol, MAC Learning, Packet forwarding,IPSec, NAT, Policy, IDS,IPS,UTM URL, Content & Anti-Virus Filtering, Profile for frequency synchronisation, Profile for time and phase synchronisation with full timing support, Profile for time and phase synchronisation with partial Timing support, PPPoE, Radius,	RFC3261,Q1912.5, RFC2516,RFC2544,RFC4251, RFC2131,RFC3046,RFC2684,RF C2236,RFC3376,RFC3550,RFC3 551,RFC793,RFC768,RFC791,R FC4213,RFC2460, RFC8200,RFC4733,RFC4960,RF C2719,RFC3332,RFC3416,RFC3 410,RFC2328, RFC2740,RFC486 2,RFC1981,RFC4443,RFC2545, RFC4271,RFC5036,RFC4760,RF C2865,RFC2516,RFC5654,RFC4 448,RFC3916,RFC4861



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Laboratory Name :	SUNREN TELECOM LABORATORY, A DIVISION OF M/S SUNREN TECHNICAL SOLUTIONS PVT. LTD., C-475, MIDC PAVANE, TTC INDUSTRIAL AREA, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
242	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with 10/100/1000Base Ethernet interface	Differential output voltage	IEEE 802.3
243	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 2G/GSM Technology Interface	Frequency Error	3GPP TS 51.026, Clause 8
244	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 2G/GSM Technology Interface	Intermodulation Attenuation	3GPP TS 51.026, Clause 6
245	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 2G/GSM Technology Interface	Out of Band Gain	3GPP TS 51.026, Clause 6
246	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 2G/GSM Technology Interface	Output Power	3GPP TS 45.005, Clause 4.1.2
247	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 2G/GSM Technology Interface	Spurious emissions	3GPP TS 51.026, Clause 5
248	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Adjacent Channel Rejection Ratio	3GPP TS 25.143, Clause 13
249	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Input intermodulation	3GPP TS 25.143, Clause 11
250	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Out of band emission	3GPP TS 25.143, Clause 9.1
251	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Out of band gain	3GPP TS 25.143, Clause 8
252	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Output intermodulation	3GPP TS 25.143, Clause 12



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253	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Output Power	3GPP TS 25.143, Clause 6
254	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 3G/WCDMA Technology Interface	Spurious emissions	3GPP TS 25.143, Clause 9.2
255	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Adjacent Channel Rejection Ratio	3GPP TS 36.143 Clause 13
256	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Input intermodulation	3GPP TS 36.143 Clause 11
257	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Operating band unwanted emissions	3GPP TS 36.143 Clause 9.1
258	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Out of band gain	3GPP TS 36.143 Clause 8
259	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Output intermodulation	3GPP TS 36.143 Clause 12
260	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Output Power	3GPP TS 36.143 Clause 6
261	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with 4G/LTE Technology Interface	Spurious emissions	3GPP TS 36.143 Clause 9.2
262	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/25G/40G /50G/100G/ DWDM	Optical Return Loss / Reflection Loss (Optical Reflectance)	ITU-T G. 957, G.691, IEEE 802.3



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263	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/25G/40G/50G/100G/ DWDM/OTN/OTU/PON interfaces	Optical Launch Power (Input / Output)	ITU-T G.957/G.691/ ITU-T G.957/G.691/ IEEE 802.3/IEEE 802.3u/ G.959.1/G.693/G.695/G984.2/G 987.2/G9807.1/G94.1/G989.2/ IEEE 802.3ae/IEEE 802.3ba/IEEE 802.3z/ IEEE 802.3 /G.959.1/G.693/G.695/G984.2/ G987.2/G9807.1/G94.1/G989.2 /IEEE 802.3cn/
264	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/25G/40G/50G/100G/ DWDM/OTN/OTU/PON interfaces	Receiver Sensitivity (Optical)	ITU-T G.957/G.691/ ITU-T G.957/G.691/ IEEE 802.3/IEEE 802.3u/ G.959.1/G.693/G.695/G984.2/G 987.2/G9807.1/G94.1/G989.2/ IEEE 802.3ae/IEEE 802.3ba/IEEE 802.3z/ IEEE 802.3 /G.959.1/G.693/G.695/G984.2/ G987.2/G9807.1/G94.1/G989.2 /IEEE 802.3cn/ 2010
265	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/40G / DWDM /OTN/OTU interfaces	Extinction Ratio	ITU-T G.957 / G.691 IEEE 802.3
266	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/40G / DWDM interfaces	Optical Eye Pattern	ITU-T G.957 / G.691 IEEE 802.3
267	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/40G / DWDM interfaces	Optical Eye Pattern	ITU-T G.957 / G.691 IEEE 802.3
268	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/40G/ 100G/DWDM/ OTN/ OTU/PON interfaces	Optical Spectral Width and wavelength / DWDM channel spacing	ITU-T G.957/G.691/ IEEE 802.3/IEEE 802.3u/IEEE 802.3ah/ G.959.1/G.693/G.694.1/G.695/ G984.2/G987.2/G9807.1/G94.1 /G989.2/IEEE 802.3ae/IEEE 802.3ba/IEEE 802.3z
269	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/40G/100G/ DWDM/ OTN/OTU	Receiver Overload	ITU-T G.957,ITU-T G.691,ITU-T G.693/G.959.1



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270	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with as per ITU-T G.957 / G.691/ Optical Ethernet 100/1G/10G/OTN/OTU interface	Frequency / Bit rate / Baud rate	ITU-T G.703 / G.957 / G.691/ G.694.1 / IEEE 802.3/G.824 /G.709
271	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with digital and analog interface	Group Delay	ITU-T Q.552
272	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with digital interface	BIT Rate	ITU-T G.703 & ITU-T G.957
273	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with Digital interface	Slip Measurement	ITU-T G.822
274	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with Digital interface	Structure Mapping, Synchronization	ITU-T G.703, G.691& ITU-T G.957
275	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with DTMF Parameters (Conformance Test)	RTP payload format for named telephones events, Use of RTP header fields, Payload Format, DTMF: Applications, DTMF: Congestion Consideration, DTMF: Events, DTMF: Payload Format, DTMF: RTP payload format for named telephones events, DTMF: Specification of Events codes for DTMF events, DTMF: Use of RTP header fields, DTMF: Duration negotiation, DTMF: Negotiation of Payload, DTMF: Transmission of Event Packet, DTMF: Verification of sequence no. and time stamp	RFC 4733
276	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Adjacent Channel Rejection (speech channels)	3GPP TS 51 010-1 Clause 14.5.1, EN 301 511 (GSM)Clause 4.2.38
277	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Frequency Error and phase error	3GPP TS 51 010-1 Clause 13.1 & Clause 13.16.1, EN 301 511 (GSM) Clause 4.2.1 & Clause 4.2.4



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278	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Output RF Spectrum	3GPP TS 51 010-1 Clause 13.4 & Clause 13.16.3, EN 301 511 (GSM) Clause 4.2.6 & Clause 4.2.11
279	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Receiver blocking	3GPP TS 51 010-1 Clause 14.7.1, EN 301 511 (GSM) Clause 4.2.20
280	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Reference sensitivity level (speech channels)	3GPP TS 51 010-1 Clause 14.2.1, EN 301 511 (GSM) Clause 4.2.42
281	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Spurious emission (MS in idle mode)	3GPP TS 51 010-1 Clause 12.1.2, EN 301 511 (GSM) Clause 4.2.13
282	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Spurious emissions (MS allocated a channel)	3GPP TS 51 010-1 Clause 12.1.1, EN 301 511 (GSM) Clause 4.2.12
283	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with GSM/ GPRS/ EDGE Technology Interface	Transmitter Maximum output power	3GPP TS 51 010-1 Clause 13.3 & Clause 13.16.2, EN 301 511 (GSM) Clause 4.2.5 & Clause 4.2.10
284	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with IPV4 and Dual Stack (Conformance Test)	Model of operation, Internet Header Format, Addressing, Model of operation, Gateways, Interfaces, Function Description, Gateways, Interfaces, Dual IP layer operation: Address Configuration, DNS, Dual IP layer operation: Tunnelling, Decapsulation, Link Local Address	RFC 791 and RFC 4213



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285	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with IPV6 Header, IPV6 Packet Size Issues Parameters (Conformance Test)	Header: Version Field, Header: Traffic Class, Header: Flow Label, Header: Payload Length, Header: No next header after IPV6 Header, Header: Hop Limit, Header: Source and Destination Address, IPV6 Extension Header Order, IPV6 Extension Header Options, IPV6 Extension Header Hop by Hop Options, IPV6 Extension Header Routing, IPV6 Extn. Header Fragment Header, IPV6 Packet Size Issues,	RFC 2460 / RFC 8200
286	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with ISDN PRI Interface	ISDN PRI Protocol	ITU-T Q.931 & SD/ISN-01
287	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with ISDN BRI S/U Interface	ISDN BRI Protocol	ITU-T Q.931 & SD/ISN-01
288	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 / G.957 /G.691 Interface	Bit Error Rate	ITU-T G.826 & ITU-T G.821
289	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 / G.957/G.691/OTN /OTU Interface	Output Jitter / Output Wander; Clock Stability / TIE	ITU-T G.823/G.825/G.783/G.813/O.172/G.824/G.752/G.8251
290	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 / G.957/G.691/OTN/ OTU Interface	Synchronization: Tolerable Jitter / Wander (Jitter / Wander Tolerance)	ITU-T G.823/G.825/G.783/G.824/G.8251
291	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 Interface	Pulse Mask & Coding	ITU-T G.703
292	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 Interface	Pulse Mask, Coding & DC Power	ITU-T G.703



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293	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.703 Interface	Return Loss (Reflection Loss)	ITU-T G.703
294	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with ITU-T G.957 / G.691 interfaces	Side Mode Suppression Ratio	ITU-T G.957 /G.691
295	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Frequency Stability	3GPP TS 36.521-1 6.5, EN 301 908-13 (LTE)
296	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Maximum output power	3GPP TS 36.521-1 Clause 6.2.2, EN 301 908-13 (LTE) Clause 4.2.2
297	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Power control Absolute Power Tolerance	3GPP TS 36.521-1 6.3.5.1, EN 301 908-13 (LTE)
298	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Receiver Adjacent Channel Selectivity (ACS)	3GPP TS 36.521-1 Clause 7.5, EN 301 908-13 (LTE) Clause 4.2.6
299	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Receiver In-band blocking	3GPP TS 36.521-1 Clause 7.6.1, EN 301 908-13 (LTE) Clause 4.2.7
300	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Receiver Reference Sensitivity level	3GPP TS 36.521-1 Clause 7.3, EN 301 908-13 (LTE) Clause 4.2.12
301	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Receiver spurious emission	3GPP TS 36.521-1 Clause 7.9, EN 301 908-13 (LTE) Clause 4.2.10
302	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Spectrum emissions mask	3GPP TS 36.521-1 Clause 6.6.2.1, EN 301 908-13 (LTE) Clause 4.2.3
303	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with LTE/ LTE-A Technology Interface	Spurious emissions	3GPP TS 36.521-1 Clauses 6.6.3.1, 6.6.3.2, 6.6.3.3, EN 301 908-13 (LTE) Clause 4.2.4



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304	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with M3UA Parameters, M3UA Protocol Extensions, Signalling Protocol Over IP	Procedures to Support the M3UA-User, Establishment of Association and Traffic Between SGs and ASPs, M3UA Port Number, M3UA Protocol Extensions, Gateway Component Functions, SS7 Interworking for Connection Control, ISDN Interworking for Connection Control, Architecture for Database Access, SG to SG	RFC 4960, RFC 2719
305	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with Optical Ethernet interface 1G/10G	Output Jitter	IEEE 802.3
306	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with Optical Ethernet interface 1G/10G	Receive electrical 3dB upper cut off frequency	IEEE 802.3
307	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Products with Optical Ethernet interface 1G/10G	Vertical Eye Closure penalty	IEEE 802.3
308	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with RTCP Parameters (Conformance Test)	RTCP: Port Assignment, RTCP: Registering Additional Encodings, RTCP: GSM-EFR, RTCP: Guidelines 1 for sample-based audio encodings, RTCP: Guidelines 2 for sample-based audio encodings, RTCP: Port Assignment, RTCP: Registering Additional Encodings	RFC 3551
309	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with RTP Parameters (Conformance Test)	RTP: Sender report RTCP packet version, RTP: Sequence number, RTP: Version and Port, RTP: Payload Type, RTP: SSRC Identification, RTP: Sender report RTCP packet version, RTP: Sequence number, RTP: Version and Port, RTP: Payload Type, RTP: Byte Order, Alignment, and Time Format, RTP: Simple Multicast Audio Conference	RFC 3550



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310	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with SCTP Parameters (Conformance Test)	SCTP packet Format, SCTP common header field descriptions, Chunk field descriptions, Optional/variable-length parameters format, Reporting of unrecognized parameters, SCTP association state diagram, User Data Fragmentation, Path Management, Transmission of DATA Chunks, Path Failure Detection	RFC 4960
311	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with SIP and SIPI Parameters(Conformance Test)	SIP Header : Message Body Type, Generating SIP request (To, R-URI, From, Call-ID, CSeq, Max-Forwards, Via), SIP Dialog and Transaction, SIP Terminating a Session with a BYE request, SIP Creating the initial invite, User Authentication, SIP - Call Flow, SIP Header : Message Body Type, Generating SIP request (To, R-URI, From, Call-ID, CSeq, Max-Forwards, Via), SIP Dialog and Transaction, SIP Terminating a Session with a BYE request, SIP Creating the initial invite, User Authentication, SIP - Max F	RFC 3261 and Q.1912.5
312	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with TCP Parameters (Conformance Test)	Header Format and Sequence Numbers (CONFIP)	RFC 793
313	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with UDP, MGCP Parameters (Conformance Test)	UDP Format, User Terminology, Sequence numbers, Connection Model	RFC 768 and MGCP - H.248
314	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with VOIP interface	SIP Call flow /SIP Signaling/ Verification of Codecs	RFC 4733, 3550,793,768,1305, 3261,2833,2460,791
315	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Frequency Stability	3GPP TS 34.121-1 5.3, EN 301 908-2 (UM3GPP TS)



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316	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Receiver Adjacent Channel Selectivity (ACS)	3GPP TS 34.121-1 Clause 6.4, EN 301 908-2 (UMTS) Clause 4.2.6
317	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Receiver In-band blocking	3GPP TS 34.121-1 Clause 6.5.2.1, EN 301 908-2 (UMTS) Clause 4.2.7
318	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Receiver Reference sensitivity level	3GPP TS 34.121-1 Clause 6.2, EN 301 908-2 (UMTS) Clause 4.2.13
319	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Receiver spurious emission	3GPP TS 34.121-1 Clause 6.8, EN 301 908-2 (UMTS) Clause 4.2.10
320	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Transmitter Maximum output power	3GPP TS 34.121-1 Clause 5.2, EN 301 908-2 (UMTS) Clause 4.2.2
321	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Transmitter Minimum Output Power	3GPP TS 34.121-1 Clause 5.4.3, EN 301 908-2 (UMTS) Clause 4.2.5
322	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Transmitter Spectrum emissions mask	3GPP TS 34.121-1 Clause 5.9, EN 301 908-2 (UMTS) Clause 4.2.3
323	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All products with WCDMA/ HSPA Technology Interface	Transmitter spurious emissions	3GPP TS 34.121-1 Clause 5.11, EN 301 908-2 (UMTS) Clause 4.2.4
324	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecom/IT products with telecom/USB/ Ethernet/Coaxial ports	Lightning voltage/ Lightning current (Verify no damage and no insulation breakdown)	ITU-T K.20, ITU-T K.21, ITU-T K.44 ITU-T K.45
325	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecom/IT products with telecom/USB/ Ethernet/Coaxial ports	Power induction and earth potential rise/ Neutral potential rise/ Mains power contact. (Verify no damage and no insulation breakdown)	ITU-T K.20, ITU-T K.21, ITU-T K.44, ITU-T K.45



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326	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecommunications Equipment	Conducted Emission Test	TEC/SD/DD/EMC-221/05/OCT-16
327	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecommunications Equipment	Conducted Emission test (Class A & B)	TEC/SD/DD/EMC-221/05/OCT-16
328	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecommunications Equipment	Electrical Fast Transient (EFT)	TEC/SD/DD/EMC-221/05/OCT-16
329	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecommunications Equipment	Electrostatic Discharge Immunity Test	TEC/SD/DD/EMC-221/05/OCT-16
330	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All Telecommunications Equipment	Surge Immunity Test	TEC/SD/DD/EMC-221/05/OCT-16
331	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	All-Optical Interfaces	Automatic Laser Shut-Down (ALS) or Automatic Power Shut-Down (APSD)	ITU-T G.664. IEC 60825. Annex-A1
332	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Audio Conference Facility Device	Voice Conference Verification	Annexure To ER of MTCTE
333	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Audio Conferencing Equipment	Voice Conference Verification	Functional Test
334	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	CDMA2000/2G/ GSM/ GPRS/ EDGE/3G/ WCDMA/ HSPA/4G/ LTE/ LTE-A/BTS	Frequency of Operation/Operating Frequency	NFAP
335	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fascimile Machine	Satisfactory Fax transmission of T.22 chart	ITU-T T.22
336	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax / Modem and other products with PSTN 2W analog Interface	DC Resistance	ETSI EN 300 001, TBR-21 (TEC S/INT-2W/02-MAY2001



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337	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax / Modem and other products with PSTN 2W analog Interface	Impedance Unbalance (Longitudinal / Transverse Conversion Loss)	ITU-T Q.552 & TBR21(TEC S/INT-2W/02-MAY2001)
338	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax / Modem and other products with PSTN 2W analog Interface	Receiver Sensitivity	ITU-T T.4 (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
339	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax / Modem and other products with PSTN 2W analog Interface	Receiver Signal for Modem	Functional Test
340	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax / Modem and other products with PSTN 2W analog Interface	Transmit Power	ITU-T T.4 (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
341	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax /Modem and other products with PSTN 2W analog Interface	Return Loss (Reflection Loss)	ITU-T Q.552 (TEC S/INT-2W/02-MAY2001)
342	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax/Modem	Observation of Data Speed in presence of Noise	ITU-T T.4 / ITU-T V.92/V.90/V.34b (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
343	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Fax/Modem	Observation of Data Speed under different SNR	ITU-TT.4/ITU-T V.92/V.90/V.34b (TEC TSTP/TEC/IR/TX/FAX-01/05/ MAY 16)
344	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	AM suppression	3GPP TS 51.021, Clause 7.8
345	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	Blocking Characteristics	3GPP TS 51.021, Clause 7.6
346	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	Intermodulation characteristics	3GPP TS 51.021, Clause 7.7
347	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	Reference interference level	3GPP TS 51.021, Clause 7.5



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348	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	Spurious emissions from the receiver antenna connector	3GPP TS 51.021, Clause 7.9
349	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Receiver Parameters	Static Reference Sensitivity Level	3GPP TS 51.021, Clause 7.3
350	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Adjacent channel power	3GPP TS 51.021, Clause 6.5
351	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Intermodulation attenuation	3GPP TS 51.021, Clause 6.7
352	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Intra Base Station System intermodulation attenuation	3GPP TS 51.021, Clause 6.8
353	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Mean transmitted RF carrier power	3GPP TS 51.021, Clause 6.3
354	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Radiated spurious emissions	3GPP TS 51.021, Clause 8
355	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Spurious emissions from the transmitter antenna connector	3GPP TS 51.021, Clause 6.6
356	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	GSM BTS Transmitter Parameters	Wideband noise and intra BSS intermodulation attenuation in multicarrier operation	3GPP TS 51.021, Clause 6.12
357	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Intrusion Detection / Prevention System Equipment & UTM Equipment	IDS, IPS, UTM URL Content Anti-Virus Filtering Functional Test	Annexure to ER of MTCTE
358	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	IoT Devices	IoT Dev - Non-0 IMEI or MEID or Unique MAC	GSMA official document IMEI Allocation & Approval Process (for IMEI / MEID)



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359	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Home BS Parameters	Home BS output power for adjacent E-UTRA channel protection: Applicable to Home base Station only	3GPP TS 36.141, Clause 6.2.7
360	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Home BS Parameters	Home BS output power for adjacent UTRA channel protection : Applicable to Home base Station only	3GPP TS 36.141, Clause 6.2.6
361	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Home BS Parameters	Home BS output power for co-channel E-UTRA protection: Applicable to Home base Station only	3GPP TS 36.141, Clause 6.2.8
362	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Receiver Parameters	Adjacent Channel Selectivity (ACS) and narrow-band blocking	3GPP TS 36.141, Clause 7.5
363	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Receiver Parameters	Blocking	3GPP TS 36.141, Clause 7.6
364	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Receiver Parameters	Receiver intermodulation	3GPP TS 36.141, Clause 7.8
365	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Receiver Parameters	Receiver spurious emissions	3GPP TS 36.141, Clause 7.7
366	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Receiver Parameters	Reference sensitivity level	3GPP TS 36.141, Clause 7.2
367	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Transmitter Parameters	Adjacent Channel Leakage Power Ratio (ACLR)	3GPP TS 36.141, Clause 6.6.2
368	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Transmitter Parameters	Base station output power	3GPP TS 36.141, Clause 6.2
369	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Transmitter Parameters	Operating band unwanted emissions	3GPP TS 36.141, Clause 6.6.3



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370	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Transmitter Parameters	Transmitter intermodulation	3GPP TS 36.141, Clause 6.7
371	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	LTE eNodeB Transmitter Parameters	Transmitter spurious emissions	3GPP TS 36.141, Clause 6.6.4
372	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Mobile Handset - Feature Phone & Smart Phone	Mobile Emergency Support - Panic Button	3GPP TS 22.101 for GSM/UMTS/ LTE, 3GPP2 C.S0023 for CDMA
373	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Mobile Handset and Tablet	Mobile device - Non-Zero IMEI/MEID/ESN	GSMA official document IMEI Allocation & Approval Process
374	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Mobile Handset and Tablet	Mobile Emergency Support - Call on 112	3GPP2 C.S0023 for CDMA 2000, 3GPP TS 22.101 and TS 24.008 for GSM/ UMTS/ LTE
375	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Mobile Handset and Tablet	Mobile Emergency Support - GPS Location & GPS Compliance	G.S.R. No. 1441 (E) dated 23-11-2017 & 436(E)
376	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	PABX (all clauses)	Inter / Intra PABX calls, PSTN Connectivity Emergency Services, Compatibility with existing Networks Fault Localization, Operation and Maintenance Features Security & logs Performance Monitoring, Verification of Codecs, Other general functions/ Features, etc.	(TEC/IR/SW/PBX-104/04/OCT 2017)
377	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	PON Functional Test Parameters	MAC Address Limitation in PON	IEEE 802.3, Annexure to ER of MTCTE
378	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	PON Functional Test Parameters	MAC Based 802.1x Authentication in PON	IEEE 802.1x, Annexure to ER of MTCTE



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379	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Products with PSTN 2W analog Interface	Idle State Power	ITU-T G.712 (TEC S/INT-2W/02-MAY2001)
380	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Products with PSTN 2W analog Interface	Idle State Impedance	ETSI EN 300 001 (TEC S/INT-2W/02-MAY2001)
381	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Products with PSTN 2W analog Interface	Insulation Resistance / Resistance to Earth / Insulation Test	ETSI EN 300 001, TBR-21 (TEC S/INT-2W/02-MAY2001)
382	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom / IT products / circuits	DC Current Measurement (Loop current)	ETSI EN 300 001 (TEC S/INT-2W/02-MAY2001)
383	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom / IT products / circuits	AC Current Measurement (Loop current)	ETSI EN 300 001 (TEC S/INT-2W/02-MAY2001)
384	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom / IT products / circuits	AC voltage Measurement	ETSI EN 300 001 (TEC S/INT-2W/02-MAY2001)
385	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom / IT products / circuits	DC voltage Measurement	ETSI EN 300 001 (TEC S/INT-2W/02-MAY2001)
386	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom / IT products / circuits	Resistance Measurement	ETSI EN 300 001, TBR-21 (TEC S/INT-2W/02-MAY2001)
387	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telecom Protocols	Verification of E1R2 , SS7, Signalling protocols	E1R2: ITU-T Q.440/441/442 SS7:ITU-T Q.781/782/783/784
388	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telephone / Cordless Telephone/ Voice Terminals	Acoustic Ratings SLR/RLR/STMR/Total Distortion	ITU-T P.57 / P.76/ P.79
389	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Telephone / Cordless Telephone/ Voice Terminals	Acoustic Shock Absorption	ITU-T P.360



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390	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Home BTS AdjChI Op Power	Home base station output power for adjacent channel protection	3GPP TS 25.141, Clause 6.4.6
391	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Receiver Parameters	Adjacent Channel Selectivity (ACS)	3GPP TS 25.141, Clause 7.4
392	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Receiver Parameters	Blocking characteristics	3GPP TS 25.141, Clause 7.5
393	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Receiver Parameters	Intermodulation characteristics	3GPP TS 25.141, Clause 7.6
394	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Receiver Parameters	Reference sensitivity level	3GPP TS 25.141, Clause 7.2
395	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Receiver Parameters	Spurious Emissions	3GPP TS 25.141, Clause 7.7
396	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Transmitter Parameters	Adjacent Channel Leakage Power Ratio (ACLR)	3GPP TS 25.141, Clause 6.5.2.2
397	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Transmitter Parameters	Base station output power	3GPP TS 25.141, Clause 6.2
398	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Transmitter Parameters	Spectrum emission mask	3GPP TS 25.141, Clause 6.5.2.1
399	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Transmitter Parameters	Spurious emissions	3GPP TS 25.141, Clause 6.5.3
400	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	WCDMA NodeB Transmitter Parameters	Transmitter intermodulation	3GPP TS 25.141, Clause 6.3



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401	SOFTWARE & IT SYSTEM TESTING - SOFTWARE TESTING	WiFi CPE	Access and Authorization, Authentication and Attribute Management	ITSAR-WFC-004
402	SOFTWARE & IT SYSTEM TESTING - SOFTWARE TESTING	WiFi CPE	Software Security, System Secure Execution Environment, User Audit, Data Protection	ITSAR-WFC-004