



## Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Perfect International Testing Lab  
**Address:** Khasra No1134, Near Morta Police Chowki, Delhi Meerut  
Road, Ghaziabad - 201001, Uttar Pradesh  
**Certificate No.:** T-0023

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**Issue date :** 24.11.2025  
**Validity :** 23.11.2029  
**Amendment date :** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
Discipline - Electronics, Group - Safety Testing Facility					
1	Information Technology Equipment	Abnormal Operating and Fault Condition.	Others: (20.µA to 15A, 1V to 400V). 10 °C to 400 °C	Cl. 5.3 of IS 13252 (Part 1)	Permanent
2	(Automatic Data Processing Machine,	Clearances, Creepage and distance through insulation.	0.01 mm to 100 mm	Cl. 2.10 of IS 13252 (Part 1)	Permanent
3	Laptop/Notebook/ Tablet, Printer, Plotter, Scanner, Set Top Box, Telephone answering machines, Visual	Connection to Cable Distribution System.	Others :(H.V. : 0.1kVac/dc to 5 kVac/dc , Impulse: 0.2 kV to 6 kV(1.2/50.µS&10/700 0.1Mohmto 2Gohm).	Cl. 7.0 of IS 13252 (Part 1)	Permanent
4	display unit, videos monitors of screen size 32" & above restricted 110", Cash Registers,	Connection to telecommunication networks.	Others :(H.V. : 0.1kVac/dc to 5 kVac/dc , Impulse: 0.2 kV to 6 kV(1.2/50.µS&10/700 0.1Mohmto 2Gohm).	Cl. 6.0 of IS 13252 (Part 1)	Permanent
5	Copying machine/ duplicator, Point	Electric Strength.	Qualitative: (0.1kVac/dc to 5kVac /dc).	Cl. 5.2 of IS 13252 (Part 1)	Permanent
6	of sale terminal, Mail processing machine/ postage	Electrical Insulation.	Qualitative :(0-50).°C, (30-96)% R.H..	Cl. 2.9 of IS 13252 (Part 1)	Permanent
7	machine/ Franking machine, Power adaptor for IT equipments,	Electrical requirements & simulated abnormal conditions, Touch current and protective conductor current.	20 µA to 20 mA	Cl. 5.1 of IS 13252 (Part 1)	Permanent



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**Issue date :** 24.11.2025  
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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
8	Visual display unit, videos	Limited Current Circuits.	0.1 mA to 70 mA	Cl. 2.4 of IS 13252 (Part 1)	Permanent
9	monitors of screen size upto 32", Passport Reader, Power bank for use in portable applications, Mobile phones,	Limited Power Sources.	0.01 A to 20 A 0.01 V to 240 V	Cl. 2.5 of IS 13252 (Part 1)	Permanent
10	Smart card reader, CCTV Camera/ CCTV	Mechanical Strength.	Qualitative :(1 N to 250 N, 1 N to 1000 N).	Cl. 4.2 of IS 13252 (Part 1)	Permanent
11	Recorders, USB driven Barcode readers, Barcode scanners, iris scanners, Optical Fingerprint	Opening in enclosure.	0.01 mm to 100 mm	Cl. 4.6 of IS 13252 (Part 1)	Permanent
12	Scanners & Smart watches, Wireless Keyboard,	Over-current and earth fault protection in primary circuits.	Qualitative	Cl. 2.7 of IS 13252 (Part 1)	Permanent
13	Keyboard, Automatic Teller Cash Dispensing	Physical requirements Stability.	Qualitative :10 Deg Inclination	Cl. 4.1 of IS 13252 (Part 1)	Permanent
14	Machines, USB Type External Hard Disk Drive, USB type External Solid	Power Interface.	2 mW to 20000 W 20 µA to 50 A per Phase	Cl. 1.6 of IS 13252 (Part 1)	Permanent
15		Protection against hazardous moving parts.	Qualitative: (1 N to 100 N). Qualitative: (5 RPM 50000 RPM).	Cl. 4.4 of IS 13252 (Part 1)	Permanent
16		Protection from Hazards.	Qualitative: 20 V to 55 V (AC) 1 N to 300 N).	Cl. 2.1 of IS 13252 (Part 1)	Permanent
17		Provision for Earthing & Bonding.	0.2 m Ohm to 10 Ohm	Cl. 2.6 of IS 13252 (Part 1)	Permanent
18		Resistance to fire.	Qualitative :(GWT : upto 960.°C,Niddle Flame : 100.°C to	Cl. 4.7 of IS 13252 (Part 1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	State Storage Devices (above 256 GB Capacity), Standalone Switch Mode Power supplies (SMPS) with output Voltage 48 V (max.), Digital Camera		700.°C,0.1Sec to 30min, 0.01mm to 150mm).		
19		Safety Interlocks.	Qualitative	Cl. 2.8 (Except Cl. 2.8.5, 2.8.7) of IS 13252 (Part 1)	Permanent
20		SELV Circuits.	1 V <sub>peak</sub> to 600 V <sub>peak</sub>	Cl. 2.2 of IS 13252 (Part 1)	Permanent
21		Thermal Requirement.	Others :(Bal Pressure : upto 150 .°C,0.1Sec to 8hrs, 0.01 mm to 10 mm). 1 °C to 400 °C	Cl. 4.5 of IS 13252 (Part 1)	Permanent
22		TNV Circuits.	0.01 A to 10 A 0.1 V to 1500 V	Cl. 2.3 of IS 13252 (Part 1)	Permanent
23		Verification of Components.	Qualitative	Cl. 1.5 (Except Cl. 1.5.3, 1.5.6, 1.5.9.1) of IS 13252 (Part 1)	Permanent
24		Verification of Design and Construction.	Qualitative :( 1N to 250N, upto 0.25Nm, 0.01mm to 150mm).	Cl. 4.3 (Except Cl. 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5) of IS 13252 (Part 1)	Permanent
25		Verification of Marking & Instruction.	Qualitative:.	Cl. 1.7 of IS 13252 (Part 1)	Permanent
26		Wiring, Connections and Supply.	Qualitative :(1 N to 300 N) 0.01 mm to 150 mm	Cl. 3.0,3.1,3.2,3.3,3.4,3.5 of IS 13252 (Part 1)	Permanent
27		Hot Flaming Oil Test	Qualitative	Annex A3 of IS 13252 (Part 1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
28		Motor Tests under Abnormal Conditions	10 to 200 deg C	Annex B of IS 13252 (Part 1)	Permanent
29		Requirement for the Mount means of Rack mounted equipment	Qualitative :(1 N to 250 N, 1 N to 1000 N).	Annex DD of 13252 (Part 1)	Permanent
30	Audio Video and similar Electronic Apparatus (,Amplifiers with input power	Antenna coaxial sockets mounted on the apparatus & Telescoping or rod antennas	Qualitative :(0.1sec to 60 sec, 1N to 500N, 0.1Nmto 6Nm, 0.01mm to 150mm, Impact Energy:0.5J)	Cl. 12.5 to 12.6 of IS 616	Permanent
31	2000W & above, Electronic games (Video), Optical disc player with built in amplifiers of input power	Apparatus Containing Coin/ Button Cell Batteries	Qualitative :(Torque 0.1Nmto 6Nm, 1 to 5000mm/1mm, Crush : 330N.±5N)	Cl. 12.7 of IS 616	Permanent
32	200W and above, Electronic musical system with input power	Apparatus Containing Coin/ Button Cell Batteries	Qualitative :(0.1Sec to 60Sec., 0.01g to 10kg, 0.5J to 2J, 0.01mm to 150mm)	Cl. 12.7 of IS 616	Permanent
33	200W and above, Plasma/ LCD/LED TVs of screen size 32" & above restricted to110", Power adopters for audio, video & similar electronic apparatus, Plasma/LCD/LED	Bump Test	Qualitative	Cl. 12.1.2 of IS 616	Permanent
34		Clearance and Creepage Distance	0.01 mm to 100 mm	Cl. 13 of IS 616	Permanent
35		Clearance Creepage distance	Qualitative	Cl. 13 of IS 616	Permanent
36		Components	Qualitative	Cl. 14 (Except Cl. 14.2, Cl. 14.4, Cl.14.5.1, Cl. 14.5.2, Cl. 14.5.3, Cl. 14.6, Cl. 14.7 & Cl. 14.12) of IS 616	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
37	TVs of screen size upto 32", Wireless Headphone & Earphone, Electronic	Constructional requirements with regard to the protection against electric shock	Qualitative :( Ambient to 50°C , 30 %R.H. to 96 %R.H.) f:10 Hz- 55Hz - 10Hz,0.35 mm, H.V. :0.1 kV to 5 kV)	Cl. 8 of IS 616	Permanent
38	Musical System with input power below 200W, Television other than plasma / LCD / LED/ TVs,	Constructional requirements with regard to the protection against electric shock	Qualitative :(1 N to 300 N)	Cl. 8 of IS 616	Permanent
39	Wireless Microphone, Video Camera,	Constructional requirements with regards to protection against electric shock	0.01 mm to 150 mm	Cl. 8 of IS 616	Permanent
40	Webcam (With and without display), Smart Speaker (With and without display), Bluetooth Speaker)	Dielectric strength	Qualitative :0.1 kV to 5 kV	Cl.10.4 of IS 616	Permanent
41		Drawers	Qualitative :(1N to 500N, 0.1Sec to 60 Sec)	Cl. 12.4 of IS 616	Permanent
42		Drop Test	Qualitative :( Upto 1000mm)	Cl. 12.1.5 of IS 616	Permanent
43		Electric shock hazard under normal operating conditions	0.01 mm to 150 mm	Cl. 9.1.1 to 9.1.6 of IS 616	Permanent
44		Electric shock hazard under normal operating conditions	20 µA to 20 mA	Cl. 9.1.1 to 9.1.6 of IS 616	Permanent
45		Electric shock hazard under normal operating conditions	20 µA to 20 mA	Cl. 9 of IS 616	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
46		Electrical Connection and Mechanical Fixings	Qualitative :(0.02Nm to 6Nm)	Cl. 17 of IS 616	Permanent
47		Electrical Connection and Mechanical Fixings.	0.01 mm to 150 mm	Cl. 17 of IS 616	Permanent
48		External Flexible Cords.	0.01 mm to 150 mm	Cl. 16 of IS 616	Permanent
49		External Flexible Cords.	Qualitative :(0.02Nm to 2.6Nm).	Cl. 16 of IS 616	Permanent
50		Fault Condition.	1 °C to 400°C	Cl. 11 of IS 616	Permanent
51		Fault Condition.	Qualitative	Cl. 11 of IS 616	Permanent
52		Fault Condition.	20 µA to 20 mA	Cl. 11 of IS 616	Permanent
53		Fixing of knobs push buttons keys and levers.	Qualitative :(upto 100N,0.1Nmto 2.6Nm, 0.1sec to 60 sec).	Cl. 12.2 of IS 616	Permanent
54		Heating under normal operating conditions.	2 mW to 10000 W	Cl. 7 of IS 616	Permanent
55		Heating under normal operating conditions.	1 .°C to 400 .°C	Cl. 7 of IS 616	Permanent
56		Humidity Treatment.	Qualitative :(Ambient to 45.°C, Up to 96% RH).	Cl. 10.3 of IS 616	Permanent
57		Impact Test.	Qualitative :( Impact Energy: 0.5J to 3.5J Bal Dia. 50 mm Weight: 500g).	Cl. 12.1.4 of IS 616	Permanent
58		Insulation resistance.	1 M Ohmto 2 G Ohm	Cl.10.4 of IS 616	Permanent
59		Marking and Instructions.	Qualitative	Cl. 5 of IS 616	Permanent
60	Marking and Instructions.	2 mW to 5000 W	Cl. 5 of IS 616	Permanent	



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
61		Remote control devices held in hand.	Qualitative	Cl. 12.3 of IS 616	Permanent
62		Removal of Protective Covers.	20 $\mu$ A to 20 mA	Cl. 9.2 of IS 616	Permanent
63		Removal of Protective Covers.	Qualitative: 0.1 kV to 5 kV.	Cl. 9.2 of IS 616	Permanent
64		Resistance to external forces.	Qualitative :(1 N to 300 N. )	Cl. 9.1.7 of IS 616	Permanent
65		Resistance to fire.	Qualitative :(GWT : upto 960. $^{\circ}$ C,Niddle Flame : 100. $^{\circ}$ C to 700. $^{\circ}$ C,0.1Sec to 30min, 0.01mm to 150mm).	Cl. 20 of IS 616	Permanent
66		Stability & mechanical hazards.	Qualitative :(Inclination : 0. $^{\circ}$ to 20. $^{\circ}$ , 1N to 500N).	Cl. 19 of IS 616	Permanent
67		Stress Relief Test.	Qualitative :(Upto 100. $^{\circ}$ C).	Cl. 12.1.6 of IS 616	Permanent
68		Surge Test.	Qualitative : (Surge : upto 10kV).	Cl. 10.2 of IS 616	Permanent
69		Terminals	0.01 mm to 150 mm 0.2 m Ohm to 10 Ohm Qualitative :(Force 1N to 100N)	Cl. 15 of IS 616	Permanent
70		Vibration Test	Qualitative :(Frequency	Clause 12.1.3 of IS 616	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
			: 10Hz to 55Hz , Amplitude: 0.35mm)		
71	Audio/Video, Information and communication Technology Equipment (Automatic Data Processing Machine, Laptop/Notebook/ Tablet, Printer, Plotter, Scanner, Set Top Box, Telephone answering machines, Visual display unit, videos monitors of screen size 32" & above restricted 110", Cash Registers, Copying machine/ duplicator, Point of sale terminal, Mail processing machine/ postage	General- materials, components	Qualitative	Cl. 4.1 of IS/IEC 62368-1	Permanent
72		Energy source classifications	Qualitative	Cl. 4.2 of IS/IEC 62368-1	Permanent
73		Protection against energy sources	Qualitative	Cl. 4.3 of IS/IEC 62368-1	Permanent
74		Safeguards	Qualitative	Cl. 4.4 of IS/IEC 62368-1	Permanent
75		Explosion	Qualitative	Cl. 4.5 of IS/IEC 62368-1	Permanent
76		Fixing of conductors and conductive parts	0.01 mm to 150 mm	Cl. 4.6 of IS/IEC 62368-1	Permanent
77		Equipment for direct insertion into mains socket-outlets	Qualitative	Cl. 4.7 of IS/IEC 62368-1	Permanent
78		Equipment containing coin or button cell batteries	Qualitative	Cl. 4.8 of IS/IEC 62368-1	Permanent
79		Likelihood of fire or shock due to entry of conductive objects	0.01mm to 50mm	Cl. 4.9 of IS/IEC 62368-1	Permanent
80		Components requirements	Qualitative	Cl. 4.10 of IS/IEC 62368-1	Permanent
81		General- Electrically-caused injury	Qualitative	Cl. 5.1 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
82	machine/ Franking machine, Power	Classification and limits of electrical energy sources	Qualitative	Cl. 5.2 of IS/IEC 62368-1	Permanent
83	adaptor for IT equipments, Visual display unit, videos monitors of screen size upto	Protection against electrical energy source	0.01mm to 200 mm HV: 500V AC to 5kV AC	Cl. 5.3 of IS/IEC 62368-1	Permanent
84	32", Passport Reader, Power	Insulation material and requirement	Qualitative	Cl. 5.4 of IS/IEC 62368-1	Permanent
85	bank for use in portable	Component as safeguard protective conductor	0.001 Ohm to 10 Ohm	Cl. 5.5 of IS/IEC 62368-1	Permanent
86	applications, Mobile phones, Smart card reader, CCTV Camera/ CCTV Recorders, USB driven Barcode readers, Barcode	Prospective Touch Voltage, Touch Current and Protective conductor current	0.01 mA to 30 mA	Cl. 5.6 of IS/IEC 62368-1	Permanent
87	scanners, iris scanners, Optical	Backfeed safeguard in battery backed up supplies	20 .µA to 30 mA	Cl. 5.7 of IS/IEC 62368-1	Permanent
88	Fingerprint Scanners & Smart watches,	General- Electrically- caused fire	Qualitative	Cl. 5.8 of IS/IEC 62368-1	Permanent
89	Wireless Keyboard, Keyboard, Automatic Teller	Classification of power sources and potential ignition sources	Qualitative	Cl. 6.1 of IS/IEC 62368-1	Permanent
90		Safeguards against fire under normal operating conditions and abnormal operating conditions	Qualitative	Cl. 6.2 of IS/IEC 62368-1	Permanent
91				Cl. 6.3 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
92	Cash Dispensing Machines, USB Type External	Safeguards against fire under single fault conditions	Qualitative	Cl. 6.4 of IS/IEC 62368-1	Permanent
93	Hard Disk Drive, USB type	Internal and external wiring	Qualitative	Cl. 6.5 of IS/IEC 62368-1	Permanent
94	External Solid State Storage Devices (above	General- Injury caused by hazardous substances	Qualitative	Cl. 7.1 of IS/IEC 62368-1	Permanent
95	256 GB Capacity),	Reduction of exposure to hazardous substances	Qualitative	Cl. 7.2 of IS/IEC 62368-1	Permanent
96	Standalone Switch Mode	Ozone exposure	Qualitative	Cl. 7.3 of IS/IEC 62368-1	Permanent
97	Power supplies (SMPS) with output Voltage 48 V (max.), Digital	Use of personal safeguards or personal protective equipment (PPE	Qualitative	Cl. 7.4 of IS/IEC 62368-1	Permanent
98	Camera, Amplifiers with input power 2000W & above,	Use of instructional safeguards and instructions	Qualitative	Cl. 7.5 of IS/IEC 62368-1	Permanent
99	Electronic games (Video), Optical	General- Mechanically-caused injury	Qualitative	Cl. 8.1 of IS/IEC 62368-1	Permanent
100	disc player with built in amplifiers	Mechanical energy source classifications	Qualitative	Cl. 8.2 of IS/IEC 62368-1	Permanent
101	of input power 200W and above, Electronic	Safeguards against mechanical energy sources	Qualitative	Cl. 8.3 of IS/IEC 62368-1	Permanent
102	musical system with input power 200W and above,	Safeguards against parts with sharp edges and corners	Qualitative	Cl. 8.4 of IS/IEC 62368-1	Permanent



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103	Plasma/ LCD/LED TVs of screen size 32" & above restricted to 110", Power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED TVs of screen size upto 32", Wireless Headphone & Earphone, Electronic Musical System with input power below 200W, Television other than plasma / LCD / LED/ TVs, Wireless Microphone, Video Camera, Webcam (With and without display), Smart Speaker (With and without display), Bluetooth	Safeguards against moving parts	Qualitative	Cl. 8.5 of IS/IEC 62368-1	Permanent
104		Stability of equipment	Qualitative (Test Angle: 10° or 15°)	Cl. 8.6 of IS/IEC 62368-1	Permanent
105		Equipment mounted to a wall, ceiling or other structure	Qualitative	Cl. 8.7 of IS/IEC 62368-1	Permanent
106		Handle Strength	Qualitative	Cl. 8.8 of IS/IEC 62368-1	Permanent
107		Wheels or casters attachment requirements	Qualitative	Cl. 8.9 of IS/IEC 62368-1	Permanent
108		Carts, stands, and similar carriers	Qualitative	Cl. 8.10 of IS/IEC 62368-1	Permanent
109		Mounting means for slide-rail mounted equipment (SRME)	Qualitative	Cl. 8.11 of IS/IEC 62368-1	Permanent
110		Thermal burn injury	Qualitative	Cl. 9.1 of IS/IEC 62368-1	Permanent
111		Thermal energy source classifications	Qualitative	Cl. 9.2 of IS/IEC 62368-1	Permanent
112		Touch temperature limits	Ambient to 400°C	Cl. 9.3 of IS/IEC 62368-1	Permanent
113		Safeguards against thermal energy sources	Qualitative	Cl. 9.4 of IS/IEC 62368-1	Permanent
114		Requirements for safeguards	Qualitative	Cl. 9.5 of IS/IEC 62368-1	Permanent
115		Requirements for wireless power	Ambient to 400°C	Cl. 9.6 of IS/IEC 62368-1	Permanent



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116	Speaker, AR/VR and other )	Transmitters	Qualitative	Cl. 10.1 of IS/IEC 62368-1	Permanent
117		General-Radiation	Qualitative	Cl. 10.2 of IS/IEC 62368-1	Permanent
118		Radiation energy source classifications Safeguards against laser radiation	Qualitative	Cl. 10.3 of IS/IEC 62368-1	Permanent
119		"Safeguards against optical radiation from lamps and lamp systems (including LED types)"	Qualitative	Cl. 10.4 of IS/IEC 62368-1	Permanent
120		Safeguards against X-radiation	Qualitative	Cl. 10.5 of IS/IEC 62368-1	Permanent
121		Safeguards against acoustic energy sources	Qualitative (upto 150dB)	Cl. 10.6 of IS/IEC 62368-1	Permanent
122		Examples of equipment within the scope of this document	Qualitative	Annex A of IS/IEC 62368-1	Permanent
123		General- Normal operating condition tests, abnormal operating condition tests and single fault condition tests	Qualitative	Annex B of IS/IEC 62368-1	Permanent
124	Audio/Video, Information and communication Technology	Normal operating conditions	5 V to 400 V 5mA to 30A 1 Deg C to 400 Deg C	Annex B-2 of IS/IEC 62368-1	Permanent
125	Equipment (Automatic Data	Simulated abnormal operating conditions	1 Deg C to 400 Deg C	Annex B-3 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
126	Processing Machine,	Simulated single fault conditions	1 Deg C to 400 Deg C	Annex B-4 of IS/IEC 62368-1	Permanent
127	Laptop/Notebook/ Tablet, Printer, Plotter, Scanner, Set Top Box,	Impulse test generators	Qualitative ( 1.2/50 Micro second Upto 6kV)	Annex D1 of IS/IEC 62368-1	Permanent
128	Telephone answering machines, Visual display unit, videos monitors	Antenna interface test generator	Qualitative (10/700 Micro Second upto 6kV) 0.5kV to 10kV )	Annex D-2 of IS/IEC 62368-1	Permanent
129	of screen size 32" & above restricted 110", Cash Registers, Copying	Electronic pulse generator	Qualitative (10/700 Micro Second upto 6kV) 0.5kV to 10kV )	Annex D-3 of IS/IEC 62368-1	Permanent
130	machine/ duplicator, Point of sale terminal,	Electrical energy source classification for audio signals	Qualitative	Annex E-1 of IS/IEC 62368-1	Permanent
131	Mail processing machine/ postage machine/	Audio signals used during test	Qualitative	Annex E-2 of IS/IEC 62368-1	Permanent
132	Franking machine, Power adaptor for IT	Operating conditions of equipment containing an audio of amplifier	Qualitative	Annex E-3 of IS/IEC 62368-1	Permanent
133	equipments, Visual display unit, videos monitors of	General-Equipment markings, instructions, and instructional safeguards	Qualitative	Annex F-1 of IS/IEC 62368-1	Permanent
134	screen size upto 32", Passport	Letter symbols and graphical symbols	Qualitative	Annex F-2 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
135	Reader, Power bank for use in	Equipment markings	Qualitative	Annex F-3 of IS/IEC 62368-1	Permanent
136	portable applications,	Instructions	Qualitative	Annex F-4 of IS/IEC 62368-1	Permanent
137	Mobile phones, Smart card reader, CCTV	Instructional safeguards	Qualitative	Annex F-5 of IS/IEC 62368-1	Permanent
138	Camera/ CCTV Recorders, USB	Switches	Qualitative	Annex G-1 of IS/IEC 62368-1	Permanent
139	driven Barcode readers, Barcode	Relays	Qualitative	Annex G-2 of IS/IEC 62368-1	Permanent
140	scanners, iris scanners, Optical	Protective devices	Qualitative	Annex G-3 of IS/IEC 62368-1	Permanent
141	Fingerprint Scanners & Smart watches,	Connectors	Qualitative	Annex G-4 of IS/IEC 62368-1	Permanent
142	Wireless Keyboard, Keyboard,	Wound components	5 V to 400 V 1 Deg C to 400 Deg C	Annex G-5 of IS/IEC 62368-1	Permanent
143	Automatic Teller Cash Dispensing	Wire insulation	Qualitative	Annex G-6 of IS/IEC 62368-1	Permanent
144	Machines, USB Type External Hard Disk Drive, USB type	Mains power supply cords and interconnection cables	Qualitative	Annex G-7 of IS/IEC 62368-1	Permanent
145	External Solid State Storage Devices (above 256 GB Capacity),	Varistors	Qualitative (Based on Verification documents provided by Manufacturer)	Annex G-8 of IS/IEC 62368-1	Permanent
146	Standalone	Integrated circuit (IC) current limiters	Qualitative	Annex G-9 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
147	Switch Mode Power supplies (SMPS) with output Voltage 48 V (max.), Digital Camera, Amplifiers with input power 2000W & above, Electronic games (Video), Optical disc player with built in amplifiers of input power 200W and above, Electronic musical system with input power 200W and above, Plasma/ LCD/LED TVs of screen size 32" & above restricted to 110", Power adopters for audio, video & similar electronic apparatus, Plasma/LCD/LED TVs of screen size upto 32",	Resistors	Qualitative	Annex G-10 of IS/IEC 62368-1	Permanent
148		Capacitors and RC units	Qualitative	Annex G-11 of IS/IEC 62368-1	Permanent
149		Optocouplers	Qualitative (Based on Verification documents provided by Manufacturer)	Annex G-12 of IS/IEC 62368-1	Permanent
150		Printed boards	Qualitative	Annex G-13 of IS/IEC 62368-1	Permanent
151		Coatings on component terminals	Qualitative	Annex G-14 of IS/IEC 62368-1	Permanent
152		Pressurized liquid filled components or LFC assemblies	Qualitative	Annex G-15 of IS/IEC 62368-1	Permanent
153		IC that includes a capacitor discharge function (ICX)	Qualitative	Annex G-16 of IS/IEC 62368-1	Permanent
154		General- Criteria for telephone ringing signal	Qualitative	Annex H-1 of IS/IEC 62368-1	Permanent
155		Method A	Qualitative	Annex H-2 of IS/IEC 62368-1	Permanent
156	Method B	Qualitative	Annex H-3 of IS/IEC 62368-1	Permanent	
157	Over voltage categories (see IEC 60364-4-44)	Qualitative	Annex I of IS/IEC 62368-1	Permanent	
158	General-Insulated winding wires for use	Qualitative	Annex J-1 of IS/IEC 62368-1	Permanent	



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
159	Wireless Headphone & Earphone, Electronic Musical System with input power below 200W,	without interleaved insulation Type tests	Qualitative	Annex J-2 of IS/IEC 62368-1	Permanent
160	Television other than plasma /	Testing during manufacturing	Qualitative	Annex J-3 of IS/IEC 62368-1	Permanent
161	LCD / LED/ TVs, Wireless Microphone,	General- Safety interlocks	Qualitative	Annex K-1 of IS/IEC 62368-1	Permanent
162	Video Camera, Webcam (With and without display), Smart Speaker (With and without display),	Components of the safety interlock safeguard mechanism Inadvertent change of operating mode	Qualitative	Annex K-2 of IS/IEC 62368-1 Annex K-3 of IS/IEC 62368-1	Permanent
163	Bluetooth Speaker, AR/VR and other )	Interlock safeguard override	Qualitative	Annex K-4 of IS/IEC 62368-1	Permanent
164		Fail-safe	Qualitative	Annex K-5 of IS/IEC 62368-1	Permanent
165		Mechanically operated safety interlocks	Qualitative	Annex K-6 of IS/IEC 62368-1	Permanent
166		Interlock circuit isolation	Qualitative	Annex K7 of IS/IEC 62368-1	Permanent
167		General requirements	Qualitative	Annex L1 of IS/IEC 62368-1	Permanent
168		Permanently connected equipment	Qualitative	Annex L2 of IS/IEC 62368-1	Permanent
169		Single-phase equipment	Qualitative	Annex L4 of IS/IEC 62368-1	Permanent
170		Three-phase equipment	Qualitative	Annex L-5 of IS/IEC 62368-1	Permanent
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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
172		Switches as disconnect devices	Qualitative	Annex L-6 of IS/IEC 62368-1	Permanent
173		Plugs as disconnect devices	Qualitative	Annex L-7 of IS/IEC 62368-1	Permanent
174		Multiple power sources	Qualitative	Annex L-8 of IS/IEC 62368-1	Permanent
175		Compliance criteria	Qualitative	Annex L-9 of IS/IEC 62368-1	Permanent
176		General requirements Safety of batteries and their cells	Qualitative	Annex M-1 M-2 of IS/IEC 62368-1	Permanent
177		Protection circuits for batteries provided within the equipment	Qualitative	Annex M-3 of IS/IEC 62368-1	Permanent
178		Additional safeguards for equipment containing a secondary lithium battery	Qualitative	Annex M-4 of IS/IEC 62368-1	Permanent
179		Risk of burn due to short-circuit during carrying	Qualitative	Annex M-5 of IS/IEC 62368-1	Permanent
180	(Automatic Data Processing	Safeguards against short-circuits	Qualitative	Annex M-6 of IS/IEC 62368-1	Permanent
181	Machine, Laptop/Notebook/ Tablet, Printer, Plotter, Scanner,	Risk of explosion from lead acid and NiCd batteries	Qualitative	Annex M-7 of IS/IEC 62368-1	Permanent
182	Set Top Box, Telephone answering machines, Visual	"Protection against internal ignition from external spark sources of rechargeable batteries with aqueous electrolyte"	Qualitative	Annex M-8 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
183	display unit, videos monitors	Preventing electrolyte spillage	Qualitative	Annex M-9 of IS/IEC 62368-1	Permanent
184	of screen size 32" & above restricted 110", Cash Registers,	Instructions to prevent reasonably foreseeable misuse	Qualitative	Annex M-10 of IS/IEC 62368-1	Permanent
185	Copying machine/ duplicator, Point of sale terminal, Mail processing	Electrochemical potentials (V)	0.1 to 5V	Annex N of IS/IEC 62368-1	Permanent
186	machine/ postage machine/ Franking	Measurement of creepage distances and clearances	0.01 mm to 200 mm	Annex O of IS/IEC 62368-1	Permanent
187	machine, Power adaptor for IT equipments, Visual display unit, videos monitors of	General-Safeguards against conductive objects	0.01 mm to 200 mm	Annex P-1 of IS/IEC 62368-1	Permanent
188	screen size upto 32", Passport	Safeguards against entry or consequences of entry of a foreign object	0.01 mm to 200 mm	Annex P-2 of IS/IEC 62368-1	Permanent
189	Reader, Power bank for use in	Safeguards against spillage of internal liquids	0.01 mm to 200 mm	Annex P-3 of IS/IEC 62368-1	Permanent
190	portable applications, Mobile phones, Smart card reader, CCTV	Metallized coatings and adhesives securing parts	0.01 mm to 200 mm	Annex P-4 of IS/IEC 62368-1	Permanent
191	Camera/ CCTV Recorders, USB	Limited power source	0.1V to 100V	Annex Q-1 of IS/IEC 62368-1	Permanent
192		Test for external circuits – paired conductor cable	Qualitative	Annex Q-2 of IS/IEC 62368-1	Permanent
193		Limited short-circuit test	0.1A to 32A	Annex R of IS/IEC 62368-1	Permanent
194		Flammability test for fire enclosure and fire barrier materials of equipment	Qualitative	Annex S-1 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	driven Barcode readers, Barcode scanners, iris	where the steady state power does not exceed 4 000 W			
195	scanners, Optical Fingerprint Scanners & Smart watches,	Flammability test for fire enclosure and fire barrier integrity	Qualitative	Annex S-2 of IS/IEC 62368-1	Permanent
196	Wireless Keyboard,	Flammability tests for the bottom of a fire enclosure	Qualitative	Annex S-3 of IS/IEC 62368-1	Permanent
197	Keyboard, Automatic Teller	Fammability classification of materials	Qualitative	Annex S-4 of IS/IEC 62368-1	Permanent
198	Cash Dispensing Machines, USB Type External Hard Disk Drive, USB type	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W	Qualitative	Annex S-5 of IS/IEC 62368-1	Permanent
199	External Solid State Storage Devices (above 256 GB	Grille covering material, cloth, and reticulated foam	Qualitative	Annex S-6 of IS/IEC 62368-1	Permanent
200	Capacity), Standalone	General-Mechanical strength tests	Qualitative	Annex T-1 of IS/IEC 62368-1	Permanent
201	Switch Mode Power supplies	Steady force test, 10 N	Qualitative	Annex T-2 of IS/IEC 62368-1	Permanent
202	(SMPS) with output Voltage 48	Steady force test, 30 N	Qualitative	Annex T-3 of IS/IEC 62368-1	Permanent
203	V (max.), Digital Camera,	Steady force test, 100 N	Qualitative	Annex T-4 of IS/IEC 62368-1	Permanent
204	Amplifiers with input power	Steady force test, 250 N	Qualitative	Annex T-5 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
205	2000W & above, Electronic games	Enclosure impact test	Qualitative	Annex T-6 of IS/IEC 62368-1	Permanent
206	(Video), Optical disc player with built in amplifiers of input power 200W and above,	Drop Test	Qualitative	Annex T-7 of IS/IEC 62368-1	Permanent
207	Electronic musical system	Stress Relief Test	Qualitative	Annex T-8 of IS/IEC 62368-1	Permanent
208	with input power 200W and above,	Glass impact Test	Qualitative	Annex T-9 of IS/IEC 62368-1	Permanent
209	Plasma/ LCD/LED TVs of screen size 32" & above restricted to 110", Power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED	Glass fragmentation test	Qualitative	Annex T-10 of IS/IEC 62368-1	Permanent
210	TVs of screen size upto 32", Wireless Headphone & Earphone, Electronic Musical System with input power below 200W, Television other	Test for telescoping or rod antennas	Qualitative	Annex T-11 of IS/IEC 62368-1	Permanent
211		Accessible parts of equipment	Qualitative	Annex V-1 of IS/IEC 62368-1	Permanent
212		Accessible part criterion	Qualitative	Annex V-2 of IS/IEC 62368-1	Permanent
213		Comparison of terms introduced in this document	Qualitative	Annex W of IS/IEC 62368-1	Permanent
214		"Alternative method for determining clearances for insulation in circuits connected to an AC mains not exceeding 420 V peak (300 V RMS)"	0.01 mm to 50 mm	Annex X of IS/IEC 62368-1	Permanent
215		General- Construction requirements for outdoor enclosures	Qualitative	Annex Y-1 of IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
216	than plasma / LCD / LED/ TVs, Wireless Microphone, Video Camera,	Resistance to UV radiation	Qualitative ( Based on provided Test report and manufacturer documents)	Annex Y-2 of IS/IEC 62368-1	Permanent
217	Webcam (With and without display), Smart	Resistance to corrosion	Qualitative	Annex Y-3 of IS/IEC 62368-1	Permanent
218	Speaker (With and without display),	Gaskets	Qualitative	Annex Y-4 of IS/IEC 62368-1	Permanent
219	Bluetooth Speaker, AR/VR	Protection of equipment within an outdoor enclosure	Qualitative	Annex Y-5 of IS/IEC 62368-1	Permanent
220	and other )	Mechanical strength of enclosures	Qualitative	Annex Y-6 of IS/IEC 62368-1	Permanent
221	Note Sorting Machine	General Requirements	Qualitative	4.2 Safety Requirement (Cl. 4.1 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
222		Energy source classifications	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.2 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
223		Protection against energy sources	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.3 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
224		Safeguards	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.4 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
225		"Explosion-Requirements"	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.5 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
226		Fixing of conductors-Requirements	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
227		Equipment for direct insertion into mains socket-outlets	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.7 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
228		Equipment containing coin / button cell batteries	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.8 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
229		Likelihood of fire or shock due to entry of conductive objects	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.9 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
230		Components requirements	Qualitative	Cl. 4.2 Safety Requirement (Cl. 4.10 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
231		Classification and limits of electrical energy sources	Qualitative	Cl. 4.2 Safety Requirement (Cl. 5.2 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
232		Protection against electrical energy sources	Qualitative	Cl. 4.2 Safety Requirement (Cl. 5.3 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
233		Insulation materials and requirements	Qualitative	Cl. 4.2 Safety Requirement (Cl. 5.4 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
234		Components as safeguards	Qualitative	Cl. 4.2 Safety Requirement (Cl. 5.5 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
235		Protective conductor	0.1mm <sup>2</sup> to 10mm <sup>2</sup>	Cl. 4.2 Safety Requirement (Cl. 5.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
236		Prospective touch voltage, touch current and protective conductor current.	20 . $\mu$ A to 30 mA	Cl. 4.2 Safety Requirement (Cl. 5.7 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
237		Backfeed safeguard in battery backed up supplies	Qualitative	Cl. 4.2 Safety Requirement (Cl. 5.8 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
238		Electrically-caused fire	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.1 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
239		Classification of power sources (PS) and potential ignition sources (PIS).	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.2 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
240		Safeguards against fire under normal operating conditions and abnormal operating conditions	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.3 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
241	Note Sorting Machine	Safeguards against fire under single fault conditions	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.4 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
242		Internal and external wiring	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.5 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
243		Safeguards against fire due to the connection of additional equipment	Qualitative	Cl. 4.2 Safety Requirement (Cl. 6.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
244		Injury caused by hazardous substances	Qualitative	Cl. 4.2 Safety Requirement (Cl. 7,7.1 to 7.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
245		Mechanically-caused injury	Qualitative	Cl. 4.2 Safety Requirement (Cl. 8,8.1 to 8.12 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
246		Thermal burn injury	Qualitative	Cl. 4.2 Safety Requirement (Cl. 9,.1 to 9.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
247	Note Sorting Machine	Radiation	Qualitative	Cl. 4.2 Safety Requirement (Cl. 10,10.1 to 10.6 and Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
248		Normal operating condition tests, abnormal operating condition tests and single fault condition tests	Qualitative	Cl. 4.2 Safety Requirement (Annex B , B.1 to B.4 Including its Subclauses of IS/IEC 62368-1 ) IS 18663	Permanent
249		Test generators	Qualitative	Cl. 4.2 Safety Requirement (Annex D , D.1, D.2, D.3of IS/IEC 62368-1 ) IS 18663	Permanent
250		Test conditions for equipment containing audio amplifiers	Qualitative	Cl. 4.2 Safety Requirement (Annex E , E.1, E.2, E.3of IS/IEC 62368-1 ) IS 18663	Permanent
251		Equipment markings, instructions, and instructional safeguards	Qualitative	Cl. 4.2 Safety Requirement (Annex F, F.1 to F.5 of IS/IEC 62368-1 ) IS 18663	Permanent
252		Components	Qualitative	Cl. 4.2 Safety Requirement (Annex G, G.1 to G.16 of IS/IEC 62368-1 ) IS 18663	Permanent
253		Criteria for telephone ringing signals .	Qualitative	Cl. 4.2 Safety Requirement (Annex H, H.1 to H.3 of IS/IEC 62368-1 ) IS 18663	Permanent



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As per ISO/IEC 17025:2017

**CAB Name:** Perfect International Testing Lab  
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**Issue date :** 24.11.2025  
**Validity :** 23.11.2029  
**Amendment date :** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
254		Overvoltage categories	Qualitative	Cl. 4.2 Safety Requirement (Annex I of IS/IEC 62368-1 ) IS 18663	Permanent
255		Insulated winding wires for use without interleaved insulation	Qualitative	Cl. 4.2 Safety Requirement (Annex J, J1 to J3 of IS/IEC 62368-1 ) IS 18663	Permanent
256		Safety Interlocks	Qualitative	Cl. 4.2 Safety Requirement (Annex K, K1 to K7 of IS/IEC 62368-1 ) IS 18663	Permanent
257		Disconnect devices	Qualitative	Cl. 4.2 Safety Requirement (Annex L, L1 to L9 of IS/IEC 62368-1 ) IS 18663: 2024	Permanent
258		Equipment containing batteries and their protection circuits	Qualitative	Cl. 4.2 Safety Requirement (Annex M, M1 to M10 of IS/IEC 62368-1) IS 18663	Permanent
259		Electrochemical potentials	Qualitative	Cl. 4.2 Safety Requirement (Annex N of IS/IEC 62368-1) IS 18663	Permanent
260		Measurement of creepage distances and clearances	0.01 mm to 200 mm	Cl. 4.2 Safety Requirement (Annex O of IS/IEC 62368-1) IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
261		Safeguards against conductive objects	Qualitative	Cl. 4.2 Safety Requirement (Annex P , P1 to P 4 of IS/IEC 62368-1 ) IS 18663	Permanent
262		Circuits intended for interconnection with building wiring	Qualitative	Cl. 4.2 Safety Requirement (Annex Q, Q1 to Q2 of IS/IEC 62368-1 ) IS 18663	Permanent
263		Tests for resistance to heat and fire	0.01 mm to 20 mm	Cl. 4.2 Safety Requirement (Annex S, S1 to S5 of IS/IEC 62368-1 ) IS 18663	Permanent
264		Mechanical strength tests	Qualitative	Cl. 4.2 Safety Requirement (Annex T,T1 to T11 of IS/IEC 62368-1 ) IS 18663	Permanent
265		Determination of accessible parts	Qualitative ( 1V to 60 Vac)	Cl. 4.2 Safety Requirement (Annex V,V1 to V2 of IS/IEC 62368-1 ) IS 18663	Permanent
266		Alternative method for determining clearances for insulation in circuits connected to an AC mains not exceeding 420V peak (300V rms)	Qualitative	Cl. 4.2 Safety Requirement (Annex X of IS/IEC 62368-1 ) IS 18663	Permanent
267		Construction requirements for outdoor enclosure	Qualitative (Amb to 45 Deg C , .	Cl. 4.2 Safety Requirement (Annex	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
			65 % Rh to 95%Rh) (1N to 2000N)	Y,Y1 to Y6 of IS/IEC 62368-1 ) IS 18663	
268		Objects not recognized as banknotes	Qualitative	Cl. 4.1,6.2 Table -1 (i) of IS 18663: 2024	Permanent
269		Suspect/counterfeit banknotes	Qualitative	Cl. 4.1,6.2 Table -1 (ii) of IS 18663	Permanent
270		Banknotes that are not clearly authenticated	Qualitative	Cl. 4.1,6.2 Table -1 (iii) of IS 18663	Permanent
271		Banknotes that are identified as genuine and fit;	Qualitative	Cl. 4.1,6.2 Table -1 (iv) a) of IS 18663	Permanent
272		Banknotes that are identified as genuine and unfit	Qualitative	Cl. 4.1,6.2 Table -1 (iv) b) of IS 18663	Permanent
273		Piece counting	Qualitative	Cl. 4.1, Table -2 (i) of IS 18663	Permanent
274		Value counting	Qualitative	Cl. 4.1, Table -2 (ii) of IS 18663:	Permanent
275		Authenticity determination	Qualitative	Cl. 4.1, Table -2 (iii) of IS 18663	Permanent
276		Fitness determination	Qualitative	Cl. 4.1, Table -2 (iv) of IS 18663	Permanent
277		Sorting of banknotes	Qualitative	Cl. 4.1, Table -2 (v) of IS 18663	Permanent
278		Serial number recognition	Qualitative	Cl. 4.1, Table -3 (i) of IS 18663	Permanent
279		Data storage and reproduction	Qualitative	Cl. 4.1, Table -3 (ii) of IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
280		Marking and instructions	Qualitative	Cl. 4.1, Table -4 (i) of IS 18663	Permanent
281		Protection against access to live parts	Qualitative	Cl. 4.1, Table -4 (ii) of IS 18663	Permanent
282		Power input and current	5 V to 400 V 5mA to 30A 1 Deg C to 400 Deg C	Cl. 4.1, Table -4 (iii) of IS 18663	Permanent
283		Heating	1 Deg C to 400 Deg C	Cl. 4.1, Table -4 (iv) of IS 18663	Permanent
284		Creepage clearance and solid insulation	0.01 mm to 200 mm	Cl. 4.1, Table -4 (v) of IS 18663	Permanent
285		Humidity conditioning	Qualitative	Cl. 4.1, Table -4 (vi) of IS 18663	Permanent
286		Leakage current and electric strength at operating temperature	0.01 mA to 30 mA	Cl. 4.1, Table -4 (vii) of IS 18663	Permanent
287		Provision for earthing	0.01 Ohm to 10 ohm	Cl. 4.1, Table -4 (viii) of IS 18663	Permanent
288		Speed Test	Qualitative	Cl. 6.2.1 of IS 18663	Permanent
289		Authenticity Test	Qualitative	Cl. 6.2.2 of IS 18663	Permanent
290		Fitness Test	Qualitative	Cl. 6.2.3 of IS 18663	Permanent
291		Repeatability Test	Qualitative	Cl. 6.2.4 of IS 18663	Permanent
292		Stress Test	Qualitative	Cl. 6.2.5 of IS 18663	Permanent
293		Piece Counting Test	Qualitative	Cl. 6.2.6 of IS 18663	Permanent
294		Values Counting Test	Qualitative	Cl. 6.2.7 of IS 18663	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
295	Digital Television Receiver for	Decompression and decoding of SDTV video	Qualitative	Clause 4.1 , Table -1, i) b ) of IS 18112	Permanent
296	Satellite Broadcast Transmission	Decompression and decoding of HDTV video	Qualitative	Clause 4.1 , Table -1, i) c) of IS 18112	Permanent
297		Decompression and decoding of HDTV video	Qualitative	Clause 4.1 , Table -1, i) d) of IS 18112	Permanent
298		Active Format descriptors	Qualitative	Clause 4.1 , Table -1, i) e) of IS 18112	Permanent
299		Captioning and Sub-titling	Qualitative	Clause 4.1 , Table -1, i) f) of IS 18112	Permanent
300		Teletext	Qualitative	Clause 4.1 , Table -1, i) g) of IS 18112	Permanent
301		Multi-language support	Qualitative	Clause 4.1 , Table -1, i) h) of IS 18112	Permanent
302		DTV receiver mixed Audio Description	Qualitative	Clause 4.1 , Table -1, i) j) of IS 18112	Permanent
303		Broadcast mixed audio description	Qualitative	Clause 4.1 , Table -1, i) k) of IS 18112	Permanent
304		Service demultiplexing	Qualitative	Clause 4.1 , Table -1, i) m) of IS 18112	Permanent
305		Data services	Qualitative	Clause 4.1 , Table -1, i) n) of IS 18112	Permanent
306	OSD	Qualitative	Clause 4.1 , Table -1, i)p) of IS 18112	Permanent	
307	DTV character set	Qualitative	Clause 4.1 , Table -1, i) q) of IS 18112	Permanent	
308	Electronic Service Guide (ESG) 'Now/Next'	Qualitative	Clause 4.1 , Table -1, i) r) of IS 18112	Permanent	



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
309		Time	Qualitative	Clause 4.1 , Table -1, i) s) of IS 18112	Permanent
310		Digital TV output	Qualitative	Clause 4.1 , Table -1, i) t) of IS 18112	Permanent
311	Digital Television Receiver for	Frequency	40Hz to 65Hz/1Hz	Clause 4.1 , Table -2, i) b) of IS 18112	Permanent
312	Satellite Broadcast Transmission	Input voltage range	50 Vac to 400 Vac /0.1Vac	Clause 4.1 , Table -2, i) a) of IS 18112	Permanent
313		Demodulation and FEC decoding	Qualitative	Clause 4.1 , Table -1, ii) a) of IS 18112	Permanent
314		DTV Receiver Installation	Qualitative	Clause 4.1 , Table -1, ii) b) of IS 18112	Permanent
315		Network evolution	Qualitative	Clause 4.1 , Table -1, ii) c) of IS 18112	Permanent
316		RF input impedance	1 ohm to 75 Ohm	Clause 4.1 , Table -2, iii) c) of IS 18112	Permanent
317		Services available	Qualitative	Clause 4.1 , Table -1, ii) d) of IS 18112	Permanent
318		Selection via Service List	Qualitative	Clause 4.1 , Table -1, ii) e) of IS 18112	Permanent
319		Selection via Numeric Entry	Qualitative	Clause 4.1 , Table -1, ii) f) of IS 18112	Permanent
320		Favourite Channel list	Qualitative	Clause 4.1 , Table -1, ii) g) of IS 18112	Permanent
321		Hidden Services	Qualitative	Clause 4.1 , Table -1, ii) h) of IS 18112	Permanent
322		Input Frequency Range	Qualitative	Clause 4.1 , Table -2, iii) b) of IS 18112	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
323		Logical Channel Number for Satellite services	Qualitative	Clause 4.1 , Table -1, ii) j) of IS 18112	Permanent
324		RF input signal	-65dBm to 25 dBm	Clause 4.1 , Table -1, ii) k) of IS 18112	Permanent
325		LNB supply current	1mA to 10A	Clause 4.1 , Table -1, ii) m) of IS 18112	Permanent
326		LNB supply voltage	1V dc to 60Vdc	Clause 4.1 , Table -1, ii) n) of IS 18112	Permanent
327		LNB Control	Qualitative	Clause 4.1 , Table -1, ii) p) of IS 18112	Permanent
328		Modulation/Demodulation parameters for DVB-S & DVB-S2 standard	Qualitative	Clause 4.1 , Table -1, ii) q) of IS 18112	Permanent
329		Input level per carrier	Qualitative	Clause 4.4 , Table -2, iii) a) of IS 18112	Permanent
330		RF input impedance	0.1 Ohm to 75 Ohm	Clause 4.4 , Table -2, iv) c) of IS 18112	Permanent
331		Input frequency range	950 MHz to 2150MHz	Clause 4.4 , Table -2, iv) b) of IS 18112	Permanent
332		Input level per carrier	Qualitative	Clause 4.4 , Table -2, iv) a) of IS 18112	Permanent
333		Symbol rate	Qualitative	Clause 4.4 , Table -2, v) of IS 18112	Permanent
334		RF Input Return loss	0.1dB to 20dBm	Clause 4.4 , Table -2, vi) of IS 18112	Permanent
335		DisEqC	Qualitative	Clause 4.4 , Table -2, Vii) of IS 18112	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
336		Operating ambient Temperature Range	Qualitative (-10 Deg C to 100 Deg C)	Clause 4.4 , Table -2, Viii) of IS 18112	Permanent
337		Operating humidity range	Qualitative (Upto 96 % Rh )	Clause 4.4 , Table -2, IX) of IS 18112	Permanent
338		Electromagnetic Compatibility( EMC Requirement)	ESD : Air and Contact Discharge Upto 16kV Surge : Upto 6kV CE : 150kHz to 30MHz	Clause 4.6 of IS 18112	Permanent
339		Interfaces, Connectors	Qualitative	Clause 4.1 , Table -1, iii) a) of IS 18112	Permanent
340		Automatic software upgrade mechanism	Qualitative	Clause 4.1 , Table -1, iv) of IS 18112	Permanent
341		Remote Control	Qualitative	Clause 4.1 , Table -1, v) of IS 18112	Permanent
342		Easy to use and simple documentation	Qualitative	Clause 4.1 , Table -1, v) b) of IS 18112	Permanent
343		Support package	Qualitative	Clause 3.1, Table-1 , v) c) of IS 18112	Permanent
Discipline - Electronics, Group - Telecommunication equipment (For TEC CAB Designation)					
344	Data transmission equipment operating in the 2,4 GHz ISM band	Accumulated Transmit Time, Frequency occupation (Conductive Only)	0.1 ms to 1000 ms	Clause No.: 4.3.1.4,& 5.4.4,ETSI EN 300 328	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
345	Data transmission equipment operating in the 2,4 GHz ISM band	Duty Cycle, Tx sequence, Tx gap (Conductive Only)	30MHz to 12.75 GHz	Clause No.: 4.3.1.3, 4.3.2.4 & 5.4.2, ETSI EN 300 328	Permanent
346	Data transmission equipment operating in the 2,4 GHz ISM band	Hopping Frequency Separation (Conductive Only)	2400 MHz to 2483.5 MHz	Clause No.: 4.3.1.5, & 5.4.5, ETSI EN 300 328	Permanent
347	Data transmission equipment operating in the 2,4 GHz ISM band	Hopping sequence (Conductive Only)	Qualitative: (2400 MHz-2483.5 MHz)	Clause No.: 4.3.1.4, & 5.4.4, ETSI EN 300 328	Permanent
348	Data transmission equipment operating in the 2,4 GHz ISM band	Medium utilization (Conductive Only)	Qualitative: (2400 MHz-2483.5 MHz)	Clause No.: 4.3.1.6, 4.3.2.5 & 5.4.2, ETSI EN 300 328	Permanent
349	Data transmission equipment operating in the 2,4 GHz ISM band	Occupied Channel bandwidth (Conductive Only)	30MHz to 12.75 GHz	Clause No.: 4.3.1.8, 4.3.2.7 & 5.4.7, ETSI EN 300 328	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
350	Data transmission equipment operating in the 2,4 GHz ISM band	Power spectral Density (Conductive only)	30MHz to 12.75 GHz	Clause No.: 4.3.2.3 & 5.4.3, ETSI EN 300 328	Permanent
351	Data transmission equipment operating in the 2,4 GHz ISM band	Receiver blocking (Conductive Only)	30MHz to 12.75 GHz	Clause No.: 4.3.1.12, 4.3.2.11 & 5.4.11, ETSI EN 300 328	Permanent
352	Data transmission equipment operating in the 2,4 GHz ISM band	Receiver spurious Emission (Conductive Only)	30MHz to 12.75 GHz ; Power Level:-70 dBm to 20 dBm	Clause No.: 4.3.1.11, 4.3.2.10 & 5.4.10, ETSI EN 300 328	Permanent
353	Data transmission equipment operating in the 2,4 GHz ISM band	RF Output Power (Conductive only)	-70 dBm to 20 dBm	Clause No.: 4.3.1.2, 4.3.2.2 & 5.4.2, ETSI EN 300 328	Permanent
354	Data transmission equipment operating in the 2,4 GHz ISM band	Transmitter unwanted Emission in OOB Domain (Conductive Only)	Frequency: 30MHz to 12.75 GHz , Power Level-70 dBm to 20 dBm)	Clause No.: 4.3.1.9, 4.3.2.8 & 5.4.8, ETSI EN 300 328	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
355	Data transmission equipment operating in the 2,4 GHz ISM band	Transmitter unwanted emissions in the spurious domain(Conductive Only)	(Frequency : 30MHz to 12.75 GHz, Power Level-70 dBm to 20 dBm)	Clause No.: 4.3.1.10, 4.3.2.9 & 5.4.9, ETSI EN 300 328	Permanent
356	5GHzLAN/WLAN PTP/PMP	Carrier frequencies (Conductive Only)	9 kHz to 6 GHz	Clause No.: 4.2.1 & 5.4.2, ETSI EN 301 893	Permanent
357	5GHzLAN/WLAN PTP/PMP	Nominal, and occupied channel bandwidth(Conductive Only)	9 kHz to 6 GHz	Clause No.: 4.2.2 & 5.4.3, ETSI EN 301 893	Permanent
358	5GHzLAN/WLAN PTP/PMP	Receiver Blocking(Conductive Only)	30MHz to 12.75 GHz	Clause No.: 4.2.8 & 5.4.10, ETSI EN 301 893	Permanent
359	5GHzLAN/WLAN PTP/PMP	Receiver spurious emissions(Conductive Only)	Frequency : 30MHz to 26.5 GHz; Power :-70d Bm to 20 dBm	Clause No.: 4.2.5 & 5.4.7, ETSI EN 301 893	Permanent
360	5GHzLAN/WLAN PTP/PMP	RF output power, Transmit Power Control(TPC), Power Density (Conductive only)	Frequency : 30 MHz to 6 GHz; Power level:-70 dBm to 30 dBm	Clause No.: 4.2.3 & 5.4.4, ETSI EN 301 893	Permanent
361	5GHzLAN/WLAN PTP/PMP	Transmitter unwanted emissions outside the 5 GHz RLAN bands(Conductive Only)	(Frequency : 30 MHz- 26.5 MHz, Power level:-70 dBm to 30 dBm)	Clause No.: 4.2.4.1 & 5.4.5, ETSI EN 301 893	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
362	5GHzLAN/WLAN PTP/PMP	Transmitter unwanted emissions within the 5 GHz RLAN bands(Conductive Only)	(Frequency : 30 MHz- 26.5 MHz, Power level:-70 dBm to 30 dBm)	Clause No.: 4.2.4.2 & 5.4.6, ETSI EN 301 893	Permanent
363	5.8 GHz fixed broadband data transmitting systems	EIRP Spectral Density	0.1 dB m /MHz to 27 dBm/MHz	Clause no. :4.2.2 & 5.4.3, ETSI EN 302 502	Permanent
364	5.8 GHz fixed broadband data transmitting systems	EIRP(Conductive Only)	0.2 dB m to 40 dB m	Clause no. :4.2.2 & 5.4.3, ETSI EN 302 502	Permanent
365	5.8 GHz fixed broadband data transmitting systems	Receiver Blocking	(f:5725 MHz-5875 MHz)	Clause no. :4.2.7 & 5.4.7, ETSI EN 302 502	Permanent
366	5.8 GHz fixed broadband data transmitting systems	Receiver Spurious Emissions(Conductive only)	Frequency : 30MHz to 26.5 GHz, Power - 70 dB m to 20 dB m	Clause no. :4.2.5 & 5.4.5, ETSI EN 302 502	Permanent
367	5.8 GHz fixed broadband data transmitting systems	Transmitter Power Control(Conductive only)	-60 dB m to 30 dB m	Clause no. :4.2.4 & 5.4.3, ETSI EN 302 502	Permanent
368	5.8 GHz fixed broadband data transmitting systems	Transmitter RF Output Power (Conductive only)	-60 dBm to 30 dBm	Clause no. :4.2.2 & 5.4.3, ETSI EN 302 502	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
369	5.8 GHz fixed broadband data transmitting systems	Transmitter unwanted emissions(Conductive only)	30 MHz to 26.5 GHz	Clause no. :4.2.3 & 5.4.4, ETSI EN 302 502	Permanent
370	5.8 GHz fixed broadband data transmitting systems	Transmitter unwanted emissions(Conductive only)	-70 dBm to 30 dBm	Clause no. :4.2.3 & 5.4.4, ETSI EN 302 502	Permanent
371	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Adaptive Power Control(Conductive Only)	9 kHz to 6 GHz	Clause 5.13, ETSI EN 300 220-1	Permanent
372	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Adjacent Channel Power(Conductive Only)	-60 dBm to 20 dBm	Clause 5.11, ETSI EN 300 220-1	Permanent
373	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Behavior at high wanted signal level(Conductive Only)	-60 dBm to 20 dBm	Clause 5.19, ETSI EN 300 220-1	Permanent
374	Short Range Devices (SRD) operating in the frequency range	Blocking (Conductive Only)	Qualitative:(f: 25 MHz-1 GHz)	Clause 5.18, ETSI EN 300 220-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	25 MHz to 1000 MHz				
375	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Duty Cycle (Conductive Only)	0.1 ms to 1000 ms	Clause 5.4, ETSI EN 300 220-1	Permanent
376	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Effective Radiated Power Maximum e.r.p spectral density(Conductive Only)	Others :(Frequency : 9 kHz to 6 GHz; Power level:-60 dBm to 20 dBm)Â	Clause 5.2 &5.3, ETSI EN 300 220-1	Permanent
377	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Frequency error(Conductive Only)	25 MHz to 1 GHz	Clause 5.7, ETSI EN 300 220-1	Permanent
378	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Occupied Bandwidth(Conductive Only)	Others :9 kHz to 6 GHz	Clause 5.6, ETSI EN 300 220-1	Permanent
379	Short Range Devices (SRD) operating in the frequency range	Operating frequency(Conductive Only)	25 MHz to 1 GHz	Clause 5.1, ETSI EN 300 220-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	25 MHz to 1000 MHz				
380	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Transient Power (Conductive only)	-60 dBm to 20 dBm	Clause 5.10, ETSI EN 300 220-1	Permanent
381	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	TX behaviour under Low Voltage Conditions(Conductive Only)	Qualitative:9 kHz to 6 GHz	Clause 5.12, ETSI EN 300 220-1	Permanent
382	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Tx Out of band emission(Conductive Only)	Others : (Frequency : 9 kHz to 6 GHz, Power Level:-60 dBm to 20 dBm)	Clause 5.8, ETSI EN 300 220-1	Permanent
383	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz	Unwanted emission in spurious domain(Conductive Only)	Others : (Frequency : 9 kHz to 6 GHz, Power Level:-60 dBm to 20 dBm)	Clause 5.9, ETSI EN 300 220-1	Permanent
384	Short Range Devices (SRD) operating in the frequency range	Unwanted emissions for a TX mode(Conductive Only)	Others : (Frequency : 9 kHz to 6 GHz, Power Level:-60 dBm)	Clause 5.9.1.1, ETSI EN 300 220-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	25 MHz to 1000 MHz				
385	Radio Frequency Identification equipments	Designated frequencies	865 MHz to 868 MHz	Cl.4.2.2 of ETSI EN 302 208	Permanent
386	Radio Frequency Identification equipments	Frequency error	865 MHz to 868 MHz	Cl. 4.3.1 of ETSI EN 302 208	Permanent
387	Radio Frequency Identification equipments	Frequency stability under low voltage conditions	865 MHz to 868 MHz	Cl. 4.3.2 of ETSI EN 302 208	Permanent
388	Radio Frequency Identification equipments	Effective radiated power	865 MHz to 868 MHz	Cl. 4.3.3 of ETSI EN 302 208	Permanent
389	Radio Frequency Identification equipments	Transmitter antenna beam-width	865 MHz to 868 MHz	Cl. 4.3.4 of ETSI EN 302 208	Permanent
390	Radio Frequency Identification equipments	Transmission spectrum masks	865 MHz to 868 MHz	Cl. 4.3.5 of ETSI EN 302 208	Permanent
391	Radio Frequency Identification equipments	Transmitter spurious emissions	865 MHz to 868 MHz	Cl. 4.3.6 of ETSI EN 302 208	Permanent
392	Radio Frequency Identification equipments	Transmission times	865 MHz to 868 MHz	Cl. 4.3.7 of ETSI EN 302 208	Permanent
393	Data transmission equipment operating in the	Adaptivity (Channel Access mechanism)	9 kHz to 6 GHz	Clause No.: 4.3.1.7 & 5.4.6, ETSI EN 300 328	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	2,4 GHz ISM band				
394	5GHzLAN/WLAN PTP/PMP	Adaptivity (Channel Access mechanism)	9 kHz to 6 GHz	Clause No.: 4.2.7 & 5.4.9, ETSI EN 301 893	Permanent
395	5GHzLAN/WLAN PTP/PMP	Dynamic Frequency Selection(DFS)	9 kHz to 6 GHz	Clause No.: 4.2.6 & 5.4.8, ETSI EN 301 893	Permanent
396	Radio Frequency Identification equipments	Receiver spurious response rejection	865 MHz to 868 MHz	Cl. 4.4.4 of ETSI EN 302 208	Permanent
397	Radio Frequency Identification equipments	Receiver sensitivity	865 MHz to 868 MHz	Cl. 4.4.5 of ETSI EN 302 208	Permanent
398	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Operating frequency	25 MHz to 1 GHz	Clause 4.2.1, ETSI EN 300 220-2 V3.2.1	Permanent
399	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Unwanted emissions in the spurious domain	25 MHz to 1 GHz	Clause 4.2.2, ETSI EN 300 220-2 V3.2.1	Permanent
400	Short Range Devices & Inductive loop systems in the	TX effective radiated power	25 MHz to 1 GHz	Clause 4.3.1, ETSI EN 300 220-2 V3.2.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	range 9 KHz to 25 MHz				
401	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Maximum e.r.p. spectral density	25 MHz to 1 GHz	Clause 4.3.2, ETSI EN 300 220-2 V3.2.1	Permanent
402	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Duty cycle	25 MHz to 1 GHz	Clause 4.3.3, ETSI EN 300 220-2 V3.2.1	Permanent
403	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Occupied bandwidth	25 MHz to 1 GHz	Clause 4.3.4, ETSI EN 300 220-2 V3.2.1	Permanent
404	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX out of band emissions	25 MHz to 1 GHz	Clause 4.3.5 ETSI EN 300 220-2 V3.2.1	Permanent
405	Short Range Devices & Inductive loop systems in the	TX Transient	25 MHz to 1 GHz	Clause 4.3.6, ETSI EN 300 220-2 V3.2.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	range 9 KHz to 25 MHz				
406	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Adjacent channel power	25 MHz to 1 GHz	Clause 4.3.7, ETSI EN 300 220-2 V3.2.1	Permanent
407	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX behaviour under low voltage conditions	25 MHz to 1 GHz	Clause 4.3.8, ETSI EN 300 220-2 V3.2.1	Permanent
408	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX Adaptive power control	25 MHz to 1 GHz	Clause 4.3.9, ETSI EN 300 220-2 V3.2.1	Permanent
409	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	TX FHSS	25 MHz to 1 GHz	Clause 4.3.10, ETSI EN 300 220-2 V3.2.1	Permanent
410	Short Range Devices & Inductive loop systems in the	TX Short term behaviour	25 MHz to 1 GHz	Clause 4.3.11, ETSI EN 300 220-2 V3.2.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	range 9 KHz to 25 MHz				
411	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	RX sensitivity	25 MHz to 1 GHz	Clause 4.4.1, ETSI EN 300 220-2 V3.2.1	Permanent
412	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	RX Blocking	25 MHz to 1 GHz	Clause 4.4.2, ETSI EN 300 220-2 V3.2.1	Permanent
413	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Clear channel assessment threshold	25 MHz to 1 GHz	Clause 4.5.2, ETSI EN 300 220-2 V3.2.1	Permanent
414	Short Range Devices & Inductive loop systems in the range 9 KHz to 25 MHz	Polite spectrum access timing parameters	25 MHz to 1 GHz	Clause 4.5.3, ETSI EN 300 220-2 V3.2.1	Permanent
415	Short Range Devices & Inductive loop systems in the	Adaptive Frequency Agility	25 MHz to 1 GHz	Clause 4.5.4, ETSI EN 300 220-2 V3.2.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	range 9 KHz to 25 MHz				
416	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter Frequency error	30 MHz to 1 000 MHz	Clause 7.1, ETSI EN 300 113 V3.1.1	Permanent
417	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter power (conducted)	30 MHz to 1 000 MHz	Clause 7.2, ETSI EN 300 113 V3.1.1	Permanent
418	Radio equipment intended for the transmission of data (and/or speech)	Transmitter Maximum effective radiated power	30 MHz to 1 000 MHz	Clause 7.3, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	using constant or non-constant envelope modulation and having an antenna connector;				
419	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter adjacent and alternate channel power	30 MHz to 1 000 MHz	Clause 7.4, ETSI EN 300 113 V3.1.1	Permanent
420	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter unwanted emissions in the spurious domain	30 MHz to 1 000 MHz	Clause 7.5, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
421	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter intermodulation attenuation	30 MHz to 1 000 MHz	Clause 7.6, ETSI EN 300 113 V3.1.1	Permanent
422	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transmitter attack time	30 MHz to 1 000 MHz	Clause 7.7, ETSI EN 300 113 V3.1.1	Permanent
423	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant	Transmitter release time	30 MHz to 1 000 MHz	Clause 7.8, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	envelope modulation and having an antenna connector;				
424	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Transient behaviour of the transmitter	30 MHz to 1 000 MHz	Clause 7.9, ETSI EN 300 113 V3.1.1	Permanent
425	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver maximum useable sensitivity (conducted)	30 MHz to 1 000 MHz	Clause 8.1, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
426	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver Average useable sensitivity (field strength)	30 MHz to 1 000 MHz	Clause 8.2, ETSI EN 300 113 V3.1.1	Permanent
427	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver error behaviour at high input levels	30 MHz to 1 000 MHz	Clause 8.4, ETSI EN 300 113 V3.1.1	Permanent
428	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant	Receiver co-channel rejection	30 MHz to 1 000 MHz	Clause 8.5, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	envelope modulation and having an antenna connector;				
429	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver adjacent channel selectivity	30 MHz to 1 000 MHz	Clause 8.6, ETSI EN 300 113 V3.1.1	Permanent
430	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver spurious response rejection	30 MHz to 1 000 MHz	Clause 8.7, ETSI EN 300 113 V3.1.1	Permanent
431	Radio equipment intended for the	Receiver inter modulation response rejection	30 MHz to 1 000 MHz	Clause 8.8, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;				
432	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver blocking or desensitization	30 MHz to 1 000 MHz	Clause 8.9, ETSI EN 300 113 V3.1.1	Permanent
433	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and	Receiver spurious radiations	30 MHz to 1 000 MHz	Clause 8.10, ETSI EN 300 113 V3.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	having an antenna connector;				
434	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver desensitization (with simultaneous transmission and reception)	30 MHz to 1 000 MHz	Clause 9.1, ETSI EN 300 113 V3.1.1	Permanent
435	Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	Receiver spurious response rejection (with simultaneous transmission and reception)	30 MHz to 1 000 MHz	Clause 9.2, ETSI EN 300 113 V3.1.1	Permanent
436	Short Range Devices (SRD);	EIRP	1 GHz to 40 GHz	Clause 4.2.2, (ETSI EN 300 440 V2.2.1	Permanent
437	Short Range Devices (SRD);	Permitted range of operating frequencies	1 GHz to 40 GHz	Clause 4.2.3, (ETSI EN 300 440 V2.2.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
438	Short Range Devices (SRD);	Unwanted emissions in the spurious domain	1 GHz to 40 GHz	Clause 4.2.4, (ETSI EN 300 440 V2.2.1	Permanent
439	Short Range Devices (SRD);	Duty Cycle	1 GHz to 40 GHz	Clause 4.2.5.4, (ETSI EN 300 440 V2.2.1	Permanent
440	Short Range Devices (SRD);	Additional requirements for FHSS equipment	1 GHz to 40 GHz	Clause 4.2.6, (ETSI EN 300 440 V2.2.1	Permanent
441	Short Range Devices (SRD);	Adjacent channel selectivity	1 GHz to 40 GHz	Clause 4.3.3, (ETSI EN 300 440 V2.2.1	Permanent
442	Short Range Devices (SRD);	Blocking or desensitization	1 GHz to 40 GHz	Clause 4.3.4, (ETSI EN 300 440 V2.2.1	Permanent
443	Short Range Devices (SRD);	Spurious radiation	1 GHz to 40 GHz	Clause 4.3.5, (ETSI EN 300 440 V2.2.1	Permanent
444	Short Range Devices (SRD);	Spectrum access techniques	1 GHz to 40 GHz	Clause 4.4, (ETSI EN 300 440 V2.2.1	Permanent
445	Short Range Devices (SRD);	GBSAR antenna pattern	1 GHz to 40 GHz	Clause 4.6.4, (ETSI EN 300 440 V2.2.1	Permanent
446	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Nominal centre frequencies and nominal bandwidth	5945 MHz to 6425 MHz	Clause No.: 4.3.1 & 5.4.2, ETSI EN 303 687 V1.1.1	Permanent
447	6 GHz Wireless Access Systems (WAS) including RLAN equipment	RF output power	5945 MHz to 6425 MHz	Clause No.: 4.3.2 & 5.4.3, ETSI EN 303 687 V1.1.1	Permanent
448	6 GHz Wireless Access Systems	Power Spectral Density	5945 MHz to 6425 MHz	Clause No.: 4.3.3 & 5.4.4, ETSI EN 303 687 V1.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	(WAS) including RLAN equipment				
449	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Transmitter unwanted emissions in the out-of-band domain	5945 MHz to 6425 MHz	Clause No.: 4.3.4.1 & 5.4.5, ETSI EN 303 687 V1.1.1	Permanent
450	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Transmitter unwanted emissions in the spurious domain	5945 MHz to 6425 MHz	Clause No.: 4.3.4.2 & 5.4.6, ETSI EN 303 687 V1.1.1	Permanent
451	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Transmitter unwanted emissions within the 6 GHz WAS/RLAN band	5945 MHz to 6425 MHz	Clause No.: 4.3.4.3 & 5.4.6, ETSI EN 303 687 V1.1.1	Permanent
452	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Receiver spurious emissions	5945 MHz to 6425 MHz	Clause No.: 4.3.5 & 5.4.7, ETSI EN 303 687 V1.1.1	Permanent
453	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Channel access mechanism	5945 MHz to 6425 MHz	Clause No.: 4.3.6 & 5.4.7, ETSI EN 303 687 V1.1.1	Permanent
454	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Receiver blocking	5945 MHz to 6425 MHz	Clause No.: 4.3.7 & 5.4.9, ETSI EN 303 687 V1.1.1	Permanent
455	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Receiver selectivity	5945 MHz to 6425 MHz	Clause No.: 4.3.8 & 5.4.10, ETSI EN 303 687 V1.1.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
456	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Mechanical and electrical design	5945 MHz to 6425 MHz	Clause No.: 4.3.9 & 5.4.11, ETSI EN 303 687 V1.1.1	Permanent
457	6 GHz Wireless Access Systems (WAS) including RLAN equipment	VLP NB operation with a PSD exceeding 1 dBm/MHz	5945 MHz to 6425 MHz	Clause No.: 5.4.12, ETSI EN 303 687 V1.1.1	Permanent
458	6 GHz Wireless Access Systems (WAS) including RLAN equipment	Assessment procedure for UAR	5945 MHz to 6425 MHz	Clause No.: 5.4.13, ETSI EN 303 687 V1.1.1	Permanent
459	RF Requirements of GSM/ GPRS/ EDGE	Transmitter Maximum output power	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	For GSM: 3GPP TS 51 010-1 Clause 13.3 OR EN 301 511 (GSM) Clause 4.2.5 For GPRS/EDGE: 3GPP TS 51 010-1 Clause 13.16.2 OR EN 301 511 (GSM) Clause 4.2.10	Permanent
460		Output RF Spectrum	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	For GSM: 3GPP TS 51 010-1 Clause 13.4 OR EN 301 511 (GSM) Clause 4.2.6 For GPRS/EDGE: 3GPP TS 51 010-1 Clause 13.16.3 OR	Permanent



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**Amendment date** : N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				EN 301 511 (GSM) Clause 4.2.11	
461		Spurious emissions (MS allocated a channel)	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 51 010-1 Clause 12.1.1 OR EN 301 511 (GSM) Clause 4.2.12	Permanent
462		Spurious emission (MS in idle mode)	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 51 010-1 Clause 12.1.2 OR EN 301 511 (GSM) Clause 4.2.13	Permanent
463		Frequency Error and phase error	9KHz to 6GHz	GSM: 3GPP TS 51 010-1 Clause 13.1 OR EN 301 511 (GSM) Clause 4.2.1 For GPRS/EDGE: 3GPP TS 51 010-1 Clause 13.16.1 OR EN 301 511 (GSM) Clause 4.2.4	Permanent
464		Reference sensitivity level (speech channels)	9KHz to 6GHz	3GPP TS 51 010-1 Clause 14.2.1 OR EN 301 511 (GSM) Clause 4.2.42	Permanent
465		Adjacent Channel Rejection – speech channels(TCH/FS)	9KHz to 6GHz	3GPP TS 51 010-1 Clause 14.5.1 OR EN 301 511 (GSM) Clause 4.2.38	Permanent
466		Receiver Blocking	9KHz to 6GHz	3GPP TS 51 010-1 Clause 14.7.1 OR	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				EN 301 511 (GSM) Clause 4.2.20	
467	RF Requirements of WCDMA/HSPA	Transmitter Maximum output power	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 34.121-1 Clause 5.2 OR EN 301 908-2 (UMTS) Clause 4.2.2	Permanent
468		Transmitter Spectrum emissions mask	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 34.121-1 Clause 5.9 OR EN 301 908-2 (UMTS) Clause 4.2.3	Permanent
469		Transmitter spurious emissions	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 34.121-1 Clause 5.11 OR EN 301 908-2 (UMTS) Clause 4.2.4	Permanent
470		Receiver spurious emission	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 34.121-1 Clause 6.8 OR EN 301 908-2 (UMTS) Clause 4.2.10	Permanent
471		Transmitter Minimum Output Power	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 34.121-1 Clause 5.4.3 OR EN 301 908-2 (UMTS) Clause 4.2.5	Permanent
472		Receiver Reference sensitivity level	9KHz to 6GHz	3GPP TS 34.121-1 Clause 6.2 OR EN 301 908-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				(UMTS) Clause 4.2.13	
473		Receiver Adjacent Channel Selectivity (ACS)	9KHz to 6GHz	3GPP TS 34.121-1 Clause 6.4 0R EN 301 908-2 (UMTS) Clause 4.2.6	Permanent
474		Receiver In-band blocking	9KHz to 6GHz	3GPP TS 34.121-1 Clause 6.5.2.1 0R EN 301 908-2 (UMTS) Clause 4.2.7	Permanent
475	RF Requirements for LTE/LTE-A	Maximum output power	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 6.2.2 0R EN 301 908-13 (LTE/LTE-A) Clause 4.2.2	Permanent
476		Spectrum emissions mask	9kHz—12.75GHz 9KHz to 6GHz	3GPP TS 36.521-1 Clause 6.6.2.1 0R EN 301 908-13 (LTE/LTE-A) Clause 4.2.3	Permanent
477		Spurious emissions	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 6.6.3.1, 6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE/LTE-A) Clause 4.2.4	Permanent
478		Receiver spurious emission	9kHz—12.75GHz 9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.9 0R	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				EN 301 908-13 (LTE) Clause 4.2.10	
479		Receiver Reference Sensitivity level	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.3 OR EN 301 908-13 (LTE/LTE-A) Clause 4.2.12	Permanent
480		Receiver Adjacent Channel Selectivity (ACS)	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.5 OR EN 301 908-13 (LTE/LTE-A) Clause 4.2.6	Permanent
481		Receiver In-band blocking	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.6.1 OR EN 301 908-13 (LTE/LTE-A) Clause 4.2.7	Permanent
482	NB IoT	Frequency Stability- NB-IOT	9kHz—12.75GHz 9KHz to 6GHz	3GPP TS 36.521-1 Clause 6.5.1F	Permanent
483		Maximum output power- NB-IOT	9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 6.2.2F	Permanent
484		Operating Frequency- NB-IOT	9KHz to 6GHz	National Frequency Allocation Plan- 2018 Frequency Allocation Table (IND 16)	Permanent
485		Power Control Absolute Power Tolerance- NB-IOT	9KHz to 6GHz	3GPP TS 36.521-1 Clause 6.3.5F.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
486		Receiver Adjacent Channel Selectivity (ACS) – NB-IOT	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.5F	Permanent
487		Receiver In-band blocking-NB-IOT	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.6.1F	Permanent
488		Receiver Reference Sensitivity level- NB-IOT	9KHz to 6GHz	3GPP TS 36.521-1 Clause 7.3F	Permanent
489		Receiver spurious emission- NB-IOT	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 7.9F	Permanent
490		Spectrum emissions mask- NB-IOT	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 6.6.2.1F	Permanent
491		Spurious emissions- NB-IOT	9kHz—12.75GHz 9KHz to 6GHz Power Level:-60 dBm to 30 dBm	3GPP TS 36.521-1 Clause 6.6.3F.1-6.6.3F.2	Permanent

**Discipline - Electronics, Group - Power Supplies & Stabilizers**

492	Uninterruptible power Systems UPS Part 1	Fault and abnormal conditions	Ambient to 400 °C	CI-4.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
493	Safety requirements	Short-circuit and overload protection	Qualitative	CI-4.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
494		AC input current	0.1A to 60A	CI-4.3.101 of IS 16242-1 / IEC 62040-	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				1 +AMD1 +AMD2 CSV	
495		Transformer protection	Ambient to 400 °C	CI-4.3.102 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
496		AC input short-circuit current	1A to 1500A	CI-4.3.103 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
497		Protection of the energy storage device	Qualitative	CI-4.3.104 of IS 16242-1 / IEC 62040- 1 + AMD1 +AMD2 CSV	Permanent
498		(Unsynchronised load transfer)	Qualitative	CI-4.3.105of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
499		(Protection against electric shock)	Qualitative	CI-4.4of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
500		(Selection tables for contact area and skin humidity condition)	Qualitative	CI-4.4.2.2of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
501		(Protection by means of enclosures or barriers- Openings)	Qualitative	CI-4.4.3.3of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
502		(Influencing factors)	Qualitative	CI-4.4.7.1.1of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
503		(Pollution degree)	Qualitative	CI-4.4.7.1.2of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
504		(Overvoltage category (OVC))	Qualitative	CI-4.4.7.1.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
505		(PWB Spacing's for functional insulation)	0.01 mm to 100 mm	CI-4.4.7.7of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
506		(Capacitor discharge)	1 V <sub>peak</sub> to 600 V <sub>peak</sub>	CI-4.4.9of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
507		(Service access areas)	Qualitative	CI-4.5.2of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
508		(Protection against fire and thermal hazards)	Qualitative	CI-4.6of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
509		(Components within a circuit representing a fire hazard)	Qualitative	CI-4.6.2.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
510		(General)	Qualitative	CI-4.6.3.1of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
511		(Flammability of enclosure materials)	Qualitative	CI-4.6.3.2of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
512		(Openings in the top and side of fire enclosures)	0.01 mm to 100 mm	CI-4.6.3.3.2of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
513		(Temperature limits- Internal parts)	1 °C to 400 °C	CI-4.6.4.1of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
514		(Limited power sources)	1V AC/DC to 600 V AC /DC	CI- 4.6.5of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
515		(Protection against mechanical hazards)	Qualitative	CI-4.7of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
516		(Protection against hazards)	Qualitative	Clause 4 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
517		(Protection in service access area)	Qualitative	CI-4.7.101 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
518		(Test requirements)	Qualitative	Clause 5 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
519		CI-4.8 .101(Equipment with multiple sources of supply- General)	Qualitative	of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
520		(Mechanical tests)	Qualitative :(1 N to 250 N, 1 N to 1000 N).	Clause 5.2.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
521		(Electrical tests)	Qualitative	Clause 5.2.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
522		(Protection against environmental stresses)	Qualitative	CI-4.9 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
523		(Protection against sonic pressure hazards)	Qualitative	CI-4.10 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
524		("Abnormal operation tests")	1 °C to 400 °C	Clause 5.2.4 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
525		(Wiring and connections)	Qualitative	CI-4.11 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
526		(Material tests)	Qualitative	Clause 5.2.5 of IS 16242-1 5/ IEC	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				62040-1 +AMD1 +AMD2 CSV	
527		(Environmental tests)	Qualitative	Clause 5.2.6 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
528		(Non-detachable cords- Cord guard)	Qualitative (30 N, 60 N, 100 N)	CI-4.11.101.1 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
529		(Hydrostatic pressure test)	Qualitative (upto 10 Bar)	Clause 5.2.7of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
530		(Cord anchorages and strain relief)	Qualitative	CI-4.11.101.2 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
531		(Information and marking requirements)	Qualitative	Clause 6 of IS 16242- 1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
532		(Emergency switching (disconnect) device)	Qualitative	CI-4.101.1 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
533		(Durability)	Qualitative	Clause 6.1.101 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
534		(Normal disconnect devices)	Qualitative	CI-4.101.2 of IS 16242-1 / IEC 62040-1 +A MD1 +AMD2 CSV	Permanent
535		(Stored energy source-General)	Qualitative	CI-4.102.1 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
536		(Accessibility and maintainability)	Qualitative	CI-4.102.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
537		(Distance between battery cells)	0.01 mm to 100 mm	CI-4.102.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
538		(Electrolyte spillage)	Qualitative	CI- 4.102.5 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
539		(Ventilation and hydrogen concentration)	0.1% to 100%	CI- 4.102.6 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
540		(Overcurrent and earth fault protection)	Qualitative	CI- 4.102.8.1 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
541		(Location of protective devices)	Qualitative	CI- 4.102.8.2 of IS 16242-1 / IEC 62040-	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				1 +AMD1 +AMD2 CSV	
542		(Rating of protective devices)	Qualitative	CI-4.102.8.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
543		UPS connection to telecommunication lines)	Qualitative :(H.V. : 0.1kVac/dc to 5 kVac/dc , Impulse: 0.2 kV to 6 kV(1.2/50.µS&10/700 0.1Mohmto 2Gohm).	CI-4.103 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
544		(Operating parameters for tests)	Qualitative	CI-5.1.5.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
545		(Test overview)	Qualitative	CI-5.1.7 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
546		(Non-accessibility test)	Qualitative	CI-5.2.2.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
547		(Drop test)	Qualitative (Upto 1000 mm)	CI-5.2.2.4.4 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
548		(Backfeed Protection)	30 µA to 20 mA	CI-4.8.102 of IS 16242-1 / IEC 62040-	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				1 +AMD1 +AMD2 CSV	
549		(Charging voltages)	1V to 1000 VDC	CI- 4.102.7 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
550		(Wall or ceiling mounted equipment test)	Qualitative	CI-5.2.2.6.101 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
551		(Rack mounted equipment test)	Qualitative	CI-5.2.2.6.102 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
552		(Cord guard test)	Qualitative	CI-5.2.2.101 of IS 16242-1 / IEC 62040- 1+AMD1 +AMD2 CSV	Permanent
553		(Limited power source test)	1V to 240V DC 0.1A to 200A	CI-5.2.3.9 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
554		(Temperature rise test)	1 .°C to 400 .°C	CI-5.2.3.10 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent
555		(Backfeed protection test- General)	20µA to 20mA 1s to 60s	CI-5.2.3.101.1 of IS 16242-1 / IEC 62040- 1 +AMD1 +AMD2 CSV	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
556		(Test for pluggable UPS)	1 V <sub>peak</sub> to 600 V <sub>peak</sub> 1s to 60s	CI-5.2.3.101.2 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
557		(Test for permanently connected UPS)	20μA to 20mA 1s to 60s	CI-5.2.3.101.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
558		(Method to simulate the load-induced change of reference potential for pluggable UPS)	Qualitative	CI-5.2.3.101.4 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
559		(Solid-state backfeed protection)	20μA to 20mA 1s to 60s	CI-5.2.3.101.5 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
560		(Input current test)	0.1 A to 60A	CI-5.2.3.102 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
561		(Short-time withstand current test)	0.1 A to 1500A	CI-5.2.3.103 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
562		(Input port short-time withstand current rating)	Qualitative	CI-5.2.3.103.3 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
563		(Transformer protection test)	Ambient to 400°C	CI-5.2.3.104 of IS 16242-1 / IEC 62040-	Permanent



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**Scope of Accreditation for Testing**  
As per ISO/IEC 17025:2017

**CAB Name:** Perfect International Testing Lab  
**Address:** Khasra No1134, Near Morta Police Chowki, Delhi Meerut  
Road, Ghaziabad - 201001, Uttar Pradesh  
**Certificate No.:** T-0023

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**Issue date :** 24.11.2025  
**Validity :** 23.11.2029  
**Amendment date :** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				1 +AMD1 +AMD2 CSV	
564		(Unsynchronised load transfer test)	Qualitative	CI- 5.2.3.105 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
565		(Abnormal operation and simulated faults tests- General)	Ambient to 400°C	CI-5.2.4.1 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
566		(Vibration test)	Qualitative (5Hz – 500 Hz)	CI-5.2.6.4 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
567		(Salt mist test)	Qualitative	CI-5.2.6.5 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
568		(Dust and sand test)	Qualitative	CI-5.2.6.6 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent
569		(Information and marking requirements)	Qualitative	CI-6 of IS 16242-1 / IEC 62040-1 +AMD1 +AMD2 CSV	Permanent



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