

Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: Absolute Testing Services

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Address: FCA - 3659, SGM NAGAR, NIT - 3, Faridabad 121001,
Haryana

Certificate No.: T-0009

Issue date : 21.07.2025

Validity : 20.07.2029

Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
Discipline: - Electrical, Group:- Domestic Electrical Appliances					
1	Power Adapter, Vacuum Cleaner and Water Suction, Spin Extractors, Cooking	Classification	Qualitative (Visual Inspection)	(Clause 6 of IS:302- 1)	Permanent
2	Range ,Hobs, Oven, Shavers Hair Clippers, Tumbler Dryers, Warming Plates,	Marking & Instructions	0.99.99hr, LC: 0.01	(Clause 7 of IS:302- 1)	Permanent
3	Frying Pans, Heating Liquid, Massage Appliance, Forced Convection Oven, Electric	Protection Against Access to live parts	0-99.9 V LC: 0.1	(Clause 8 of IS:302- 1)	Permanent
4	Heating Tools, Electric Steam Cooker, Insect Killers, Electric Fence Energizers, Electric Call Bell and Buzzer, Electric Water Boilers, Electric Coffee Makers,	Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	(Clause 10 of IS:302- 1)	Permanent
5	Electric Hot Plates, Electric Berry Juice Extractors, Electric Can Openers, Electric Centrifugal Juicers, Electric Churns, Electric Citrus Fruits Squeezers,	Heating	Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	(Clause 11 of IS:302- 1)	Permanent
6	Electric Coffee Mills, Electric Cream Whippers, Electric Egg Beaters, Electric Food Processors, Electric Grain Grinders, Electric Graters, Electric Ice Cream	Leakage Current and Electric Strength	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp 0-10KvLC-0.1 Kv	(Clause 13 of IS:302-1)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
7	Machines, Electric Knife Sharpeners, Electric Knives, Electric Noodle Maker, Electric Potato Peelers, Electric Shredders, Electric Sieving Machines, Slicing Machines, Electric Bean Slicers, Single walled Baking Ovens, Low Speed Food Grinding Machine,		0-1999 μ A, LC=1 μ A		
		Transient Overvoltage	0-10KV, LC 0.001 1.2/50 μ S	(Clause14 of IS:302- 1)	Parmanent
8	Dishwashers, Floor Treatment Machine, Food Waste Disposers, Blankets Pads Heating, Skin Exposure to Optical radiation, Commercial Electric Cooking Range, Ovens, Hobs, Commercial Electric Doughnut Fryers, Commercial Electric Griddles, Commercial Electric Multipurpose Pan, Commercial Forced Convection Oven, Clothes Dryers, Commercial Electric Boiling Pan, Electrical Grills & Toasters, Commercial Food & Crockery Warm, Electrical Bains Marie, Oral	Moisture Resistance	-40°C to 200°C / 0.1°C 10% to 93% RH 0.1% RH	(Clause 15 of IS:302- 1)	Parmanent
9		Leakage Current and Electric Strength	0-10Kv LC-0.1 Kv 0-1999 μ A, LC=1 μ A	(Clause 16 of IS:302-1)	Parmanent
10		Overload Protection of Transformer	0-5000 W,LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	(Clause 17 of IS:302-1)	Parmanent
11		Endurance	0-5000 W, LC:1W 0-300V, LC- 1V 0-30Amp, LC- 0.001Amp	(Clause 18 of IS:302- 1)	Parmanent
12		Abnormal Operation	0-10Kv LC-0.1 Kv Amb temp. to 599.9°C , LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V	(Clause 19 of IS:302- 1)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Hygiene Appliances, Sauna Heating & Infrated Cabins, Surface Cleaning Appliances,		0-30Amp, LC-0.001Amp		
13	Electrical (Aquarium and Garden Pools), Commercial Dishwashing Machine, Whirlpool Baths & Spas,	Stability And Mechanical Hazards	0-90° LC -1°	Clause 20 of IS:302- 1)	Parmanent
14	Thermal Storage Room Heater, Commercial Rinsing, Sinks, Commercial Electrical	Mechanical Strength	0-500 N LC 0.1N	(Clause 21of IS:302- 1)	Parmanent
15	Kitchen Machine, Air Cleaning Appliances, Water Bed Heater, Fixed	Construction	0-500 N LC 0.1N 0-24hr, LC 0.1sec	(Clause 22 of IS:302- 1)	Parmanent
16	Immersion Heater, Outdoor Barbecues, Foot Warmers and Heating Mats,	Internal Wiring	0-10Kv, LC-0.1 Kv 0-99999 flexing	(Clause 23 of IS:302- 1)	Parmanent
17	Amusement m/c Personal Service m/c, Toilet Appliances, Fabric	Component	0-10Kv LC-0.1 Kv 0-99999 Cycles	(Clause 24 of IS:302- 1)	Parmanent
18	Streamers, Drivers For Vertically moving garage doors, Humidifiers, Commercial Electrical	Supply Connection and External Flexible Cord	(100 & 60) N 0-10Kv LC-0.1 Kv 0.02μΩ to 99.0Ω, LC: 0.01	(Clause 25 of IS:302- 1)	Parmanent
19	Hoods, Vaporizers, Gas, Oil and Solid Fuel Burning, Electrolysers, Beauty Care Appliances (lasers),	Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	(Clause 26 of IS:302- 1)	Parmanent
20	Personale Transporters, Skin	Provision For	0 to 5 Ohm	(Clause 27 of IS:302- 1)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Beauty Care Appliances, Furniture With Electrically Motorized Parts, Commercial Vacuum Packaging Appliances, Hand Held Electrical Enlarging Tools, Electric Hand Lamp	Earthing			
21		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm	(Clause 28 of IS:302- 1)	Permanent
22		Clearances, Creepage Distance	0-150mm/0.01 mm 0.02-1.0mm	(Clause 29 of IS:302- 1)	Permanent
23		Resistance to Heat & Fire	Amb- 250°C /0.1°C Radius 2.5mm, Force 20±0.2N 0 to 1000°C, LC:1 °C 200/5 A, LC: 0.1A, 0 to 99.9s, LC: 0.1s	(Clause 30 of IS:302- 1)	Permanent
24		Resistance to Rusting	Amb- 250°C /0.1°C	(Clause 31 of IS:302- 1)	Permanent
25		Radiation Toxicity and Similar Hazards	Qualitative (Visual Inspection)	(Clause 32 of IS:302- 1)	Permanent
26	Safety of Household and Similar Electrical Appliances – Particular Requirements – Stationary Cooking ranges, hobs, Oven and similar	Classification	Qualitative (Visual Inspection)	Clause 6 of IS302 (PART2/ SEC 06)	Permanent
27		Marking &	0.99.99hr, LC: 0.01	Clause 7 of IS302 (PART2/	Permanent

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Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	appliances	Instructions		SEC 06)	
28		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS302 (PART2/ SEC 06)	Parmanent
29		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 10 of IS302 (PART2/ SEC 06)	Parmanent
30		Heating	Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 11 of IS302 (PART2/ SEC 06)	Parmanent
31		Leakage Current and Electric Strength	0-5000 W, LC:1W 0-300V, LC- 1V 0-30Amp, LC- 0.001Amp 0-10Kv LC-0.1 Kv 0-1999µA, LC=1µA	Clause 13 of IS302 (PART2/ SEC 06)	Parmanent
32		Transient Overvoltage	0-10KV, LC 0.001 1.2/50 µS	Clause 14 of IS302 (PART2/	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
				SEC 06)	
33		Moisture Resistance	-40°C to 200°C /0.1°C 10% to 93% RH 0.1% RH	Clause 15 of IS302 (PART2/ SEC 06)	Parmanent
34		Leakage Current and Electric Strength	0-10Kv LC-0.1 Kv 0-1999µA, LC=1µA	Clause 16 of IS302 (PART2/ SEC 06)	Parmanent
35		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 17 of IS302 (PART2/ SEC 06)	Parmanent
36		Abnormal Operation	0-10Kv LC-0.1 Kv Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 19 of IS302 (PART2/ SEC 06)	Parmanent
37		Stability And Mechanical Hazards	0-90° LC -1°	Clause 20 of IS302 (PART2/ SEC 06)	Parmanent

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Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
38		Mechanical Strength	0-500 N LC 0.1N	Clause 21 of IS302 (PART2/ SEC 06)	Permanent
39		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1 sec	Clause 22 of IS302 (PART2/ SEC 06)	Permanent
40		Internal Wiring	0-10Kv, LC-0.1 Kv 0-99999 flexing	Clause 23 of IS302 (PART2/ SEC 06)	Permanent
41		Component	0-10Kv LC-0.1 Kv 0-99999 Cycles	Clause 24 of IS 302 PART2/SEC 06)	Permanent
42	Safety of Household and Similar Electrical Appliances – Particular Requirements – Stationary Cooking ranges, hobs, Oven and similar appliances	Supply Connection and External Flexible Cord	(100 & 60) N 0-10Kv LC-0.1 Kv 0.02μΩ to 99.0Ω, LC: 0.01	Clause 25 of IS 302 PART2/ SEC:06	Permanent
43		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	Clause 26 of IS 302 PART2/ SEC:06	Permanent
44		Provision For Earthing	0 to 5 Ohm	Clause 27 of IS 302 PART2/ SEC:06	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
45		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	Clause 28 of IS 302 PART2/ SEC:06	Parmanent
46		Clearances, Creepage Distance	0-150 mm/0.01 mm 0.02-1.0mm	Clause 29 of IS 302 PART2/ SEC:06	Parmanent
47		Resistance to Heat & Fire	Amb- 250°C /0.1°C Radius 2.5mm, Force 20±0.2N Range: 0 to 1000°C, LC: 1 200/5 A, LC: 0.1 A, Range: 0 to 99.9s, LC: 0.1s	Clause 30 of IS 302 PART2/ SEC:06	Parmanent
48		Resistance to Rusting	Amb- 250°C /0.1°C	Clause 31 of IS 302 PART2/ SEC:06	Parmanent
49		Radiation Toxicity and Similar Hazards	Visual Inspection	Clause 32 of IS 302 PART2/ SEC:06	Parmanent

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Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
50	Safety of household and similar electrical appliances – particular requirements – toasters, grills, roasters and similar appliances	Classification	Visual Inspection	Clause 6 of IS 302 (PART2/ SEC: 9)	Permanent
51		Marking & Instructions	0.99.99hr, LC: 0.01	Clause 7 of IS 302 (PART2/ SEC: 9)	Permanent
52		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS 302 (PART2/ SEC: 9)	Permanent
53		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 10 of IS 302 (PART2/ SEC: 9)	Permanent
54		Heating	Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 11 of IS 302 (PART2/ SEC: 9)	Permanent
55		Leakage Current and Electric Strength	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp 0-10Kv LC-0.1 Kv	Clause 13 of IS 302 (PART2/ SEC: 9)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0-1999 μ A, LC=1 μ A		
56		Transient Overvoltage	0-10KV, LC 0.001 1.2/50 μ S	Clause 14 of IS 302 (PART2/ SEC: 9)	Parmanent
57		Moisture Resistance	-40°C to 200°C /0.1°C 10% to 93% RH 0.1% RH	Clause 15 of IS 302 (PART2/ SEC: 9)	Parmanent
58		Leakage Current and Electric Strength	0-10Kv LC-0.1 Kv 0-1999 μ A, LC=1 μ A	Clause 16 of IS 302 (PART2/ SEC: 9)	Parmanent
59		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	Clause 17 of IS 302 (PART2/ SEC: 9)	Parmanent
60		Abnormal Operation	0-10Kv LC-0.1 Kv Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	Clause 19 of IS 302 (PART2/ SEC: 9)	Parmanent
61		Stability And Mechanical	0-90°	Clause 20 of IS 302 (PART2/	Parmanent

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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Hazards	LC -1°	SEC: 9)	
62		Mechanical Strength	0-500 N LC 0.1N	Clause 21 of IS 302 (PART2/ SEC: 9)	Parmanent
63		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1sec	Clause 22 of IS 302 (PART2/ SEC: 9)	Parmanent
64		Internal Wiring	0-10Kv, LC-0.1 Kv 0-99999 flexing	Clause 23 of IS 302 (PART2/ SEC: 9)	Parmanent
65	Safety of household and similar electrical appliances – particular requirements – toasters, grills, roasters and similar appliances	Component	0-10Kv LC-0.1 Kv 0-99999 Cycles	Clause 24 of IS 302 (PART2/ SEC: 9)	Parmanent
66		Supply Connection and External Flexible Cord	(100 & 60) N 0-10Kv LC-0.1 Kv, 0.02μΩ to 99.0Ω, LC: 0.01	Clause 25 of IS 302 (PART2/ SEC: 9)	Parmanent
67		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	Clause 26 of IS 302 (PART2/ SEC: 9)	Parmanent
68		Provision For Earthing	0 to 5 Ohm	Clause 27 of IS 302 (PART2/	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
				SEC: 9)	
69		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	Clause 28 of IS 302 (PART2/ SEC: 9)	Parmanent
70		Clearances, Creepage Distance	0-150mm/0.01 mm 0.02-1.0 mm	Clause 29 of IS 302 (PART2/ SEC: 9)	Parmanent
71		Resistance to Heat & Fire	Amb- 250°C /0.1°C Radius 2.5mm, Force 20±0.2N Range: 0 to 1000°C, LC: 1 200/5 A, LC: 0.1 A, Range: 0 to 99.9s, LC: 0.1s	Clause 30 of IS 302 (PART2/ SEC: 9)	Parmanent
72		Resistance to Rusting	Amb- 250°C /0.1°C	Clause 31 of IS 302 (PART2/ SEC: 9)	Parmanent
73		Radiation Toxicity and Similar Hazards	Visual Inspection	Clause 32 of IS 302 (PART2/	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
				SEC: 9)	
74	Safety of Household and Similar Electrical Appliances – Particular Requirements – Electric Kitchen Machines	Classification	Visual Inspection	Clause 6 of IS 302(PART2/ SEC14)	Parmanent
75		Marking & Instructions	0.99.99hr, LC: 0.01	Clause 7 of IS 302(PART2/ SEC14)	Parmanent
76		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS 302(PART2/ SEC14)	Parmanent
77		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 10 of IS 302(PART2/ SEC14)	Parmanent
78		Heating	Amb to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 11 of IS 302(PART2/ SEC14)	Parmanent
79		Leakage Current and Electric Strength	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 13 of IS 302(PART2/ SEC14)	Parmanent

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			0-10Kv LC-0.1 Kv 0-1999μA, LC=1μA		
80		Transient Overvoltage	0-10KV, LC 0.001 1.2/50μS	Clause 14 of IS 302(PART2/ SEC14)	Parmanent
81		Moisture Resistance	-40°C to 200°C /0.1°C 10% to 93% RH 0.1% RH	Clause 15 of IS 302(PART2/ SEC14)	Parmanent
82		Leakage Current and Electric Strength	0-10Kv LC-0.1 Kv 0-1999μA, LC=1μA	Clause 16 of IS 302(PART2/ SEC14)	Parmanent
83		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC - 0.001Amp	Clause 17 of IS 302(PART2/ SEC14)	Parmanent
84		Abnormal Operation	0-10Kv LC-0.1 Kv Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	Clause 19 of IS 302(PART2/ SEC14)	Parmanent

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85		Stability And Mechanical Hazards	0-90° LC -1°	Clause 20 of IS 302(PART2/ SEC14)	Parmanent
86		Mechanical Strength	0-500 N LC 0.1N	Clause 21 of IS 302(PART2/ SEC14)	Parmanent
87		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1 sec	Clause 22 of IS 302(PART2/ SEC14)	Parmanent
88		Internal Wiring	0-10Kv, LC-0.1 Kv 0-99999 flexing	Clause 23 of IS 302(PART2/ SEC14)	Parmanent
89		Component	0-10Kv LC-0.1 Kv 0-99999 Cycles	Clause 24 of IS 302(PART2/ SEC14)	Parmanent
90	Safety of Household and Similar Electrical Appliances – Particular Requirements – Electric Kitchen Machines	Supply Connection and External Flexible Cord	(100 & 60) N 0-10Kv LC-0.1 Kv 0.02μΩ to 99.0Ω, LC:0.01	Clause 25 of IS 302(PART2/ SEC14)	Parmanent
91		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC0.1N	Clause 26 of IS 302(PART2/ SEC14)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
92		Provision For Earthing	0 to 5 Ohm	Clause 27 of IS 302(PART2/ SEC14)	Parmanent
93		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	Clause 28 of IS 302(PART2/ SEC14)	Parmanent
94		Clearances, Creepage Distance	0-150 mm/0.01 mm 0.02-1.0 mm	Clause 29 of IS 302(PART2/ SEC14)	Parmanent
95		Resistance to Heat & Fire	Amb- 250°C /0.1°C Radius 2.5mm, Force 20±0.2N Range: 0 to 1000°C, LC:1 to 200/5 A, LC:0.1A, Range: 0 to 99.9s, LC: 0.1s	Clause 30 of IS 302(PART2/ SEC14)	Parmanent
96		Resistance to Rusting	Amb- 250°C /0.1°C	Clause 31 of IS 302(PART2/ SEC14)	Parmanent
97		Radiation Toxicity	Visual	Clause 32 of IS	Parmanent

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Validity : 20.07.2029

Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		and Similar Hazards		302(PART2/ SEC14)	
98	Safety of Household and Similar Electrical Appliances – Particular Requirements –	Classification	Qualitative Test (Visual Inspection)	Clause 6 of IS 302 (PART 2/SEC:15)	Permanent
99	Appliances for Heating Liquids	Marking & Instructions	Qualitative Test (Visual Inspection)	Clause 7 of IS 302 (PART2/SEC15)	Permanent
100		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS 302 (PART 2/ SEC 15)	Permanent
101		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0- 30Amp, LC-0.001Amp	Clause 10 of IS 302 (PART 2/ SEC15)	Permanent
102		Heating	Amb to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0-300V, LC-1V, 0-30Amp, LC-0.001Amp	Clause 11 of IS 302 (PART 2/SEC 15)	Permanent
103		Leakage Current and Electric Strength	0-5000 W, LC:1W 0- 300V, LC-1V, 0-30Amp, LC-0.001Amp 0-10 kV LC-0.1 kV	Clause 13 of IS 302 (PART 2/SEC 15)	Permanent

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Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0-1999 μ A, LC=1 μ A		
104		Transient Overvoltage	0-10 kV, LC 0.001 1.2/50 μ S	Clause 14 of IS 302 (PART2/SEC15)	Permanent
105		Moisture Resistance	-40°C to 200°C /0.1°C 10% to 93% RH, 0.1% RH	Clause 15 of IS 302 (PART 2/SEC15)	Permanent
106		Leakage Current and Electric Strength	0-10 kV LC- 0.1 kV 0-1999 μ A, LC=1 μ A	Clause 16 of IS 302 (PART 2/SEC:15)	Permanent
107		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	Clause 17 of IS 302 (PART2/ SEC15)	Permanent
108		Endurance	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC- 0.001Amp	Clause 18 of IS 302 (PART2/SEC 15)	Permanent
109		Abnormal Operation	0-10 kV LC-0.1 Kv Amb To 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-	Clause 19 of IS 302 (PART2/SEC15)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.001Amp		
110		Stability And Mechanical Hazards	0-90° LC -1°	Clause 20 of IS 302 (PART2/SEC15)	Parmanent
111	Safety of Household and Similar Electrical Appliances – Particular Requirements – Appliances for Heating Liquids	Mechanical Strength	0-500 N LC 0.1N	Clause 21 of IS 302 (PART2/ SEC15)	Parmanent
112		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1 sec	Clause 22 of IS 302 (PART 2/SEC15)	Parmanent
113		Internal Wiring	0-10 kV, LC-0.1 kV 0-99999 Flexing	Clause23 of IS 302 (PART2/ SEC15)	Parmanent
114		Component	0-10 kV LC-0.1 kV 0-99999 Cycles	Clause 24 of IS 302 (PART 2/SEC15)	Parmanent
115		Supply Connection and External Flexible Cord	(100 & 60) N 0-10 kV LC-0.1 kV 0.02μΩ to 99.0Ω, LC: 0.01	Clause 25 of IS 302 (PART 2/SEC15)	Parmanent
116		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	Clause 26 of IS 302 (PART 2/SEC 15)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
117		Provision For Earthing	0 to 5 Ohm	Clause 27 of IS 302 (PART2/SEC15)	Parmanent
118		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	Clause 28 of IS 302 (PART 2/SEC15)	Parmanent
119		Clearances, Creepage Distance	0-150mm/0.01 mm 0.02-1.0mm	Clause 29 of IS 302 (PART2/SEC15)	Parmanent
120		Resistance to Heat & Fire	Amb-250°C /0.1°C Radius 2.5mm, Force 20±0.2N Range: 0°C to 1000°C, LC: 1 to 200/5 A, LC: 0.1 A, Range: 0 to 99.9s, LC: 0.1s	Clause 30 of IS 302 (PART2/SEC15)	Parmanent
121		Resistance to Rusting	Amb to 250°C /0.1°C	Clause 31of IS 302 (PART 2/SEC15)	Parmanent
122		Radiation Toxicity and Similar Hazards	Qualitative (Visual inspection)	Clause 32 of IS 302 (PART 2/SEC15)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
123	Safety of household and similar electrical appliances – particular requirements – appliances for skin or hair care	Classification	Qualitative (Visual Inspection)	Clause 6 of IS 302 (PART 2/SEC 23)	Permanent
124		Marking & Instructions	0.99.99hr, LC: 0.01	Clause 7 of IS 302 (PART 2/SEC 23)	Permanent
125		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS 302 (PART 2/SEC23)	Permanent
126		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-.001Amp	Clause 10 of IS 302 (PART 2/SEC23)	Permanent
127		Heating	Amb to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC 0.001Amp	(Clause 11 of IS 302 (PART 2/SEC23)	Permanent
128		Leakage Current and Electric Strength	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp 0-10kV LC-0.1 kV 0-1999µA, LC=1µA	(Clause 13 of IS 302 (PART 2/SEC 23)	Permanent
129		Transient	0-10 kV,	Clause 14 of IS 302	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Overvoltage	LC 0.001 1.2/50μS	(PART 2/SEC23)	
130		Moisture Resistance	-40°C to 200°C/0.1°C 10% to 93% RH 0.1% RH	Clause 15 of IS 302 (PART 2/SEC23)	Parmanent
131		Leakage Current and Electric Strength	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp 0-10kV LC-0.1 kV 0-1999μA, LC=1μA	Clause 16 of IS 302 (PART 2/SEC 23)	Parmanent
132		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 17 of IS 302 (PART 2/SEC23)	Parmanent
133		Endurance	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 18 of IS 302 (PART 2/SEC23)	Parmanent
134		Abnormal Operation	0-10 kV LC-0.1 kV Amb temp. to 599.9°C, LC:0.1°C	Clause 19 of IS 302 (PART 2/SEC23)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp		
135		Stability And Mechanical Hazards	0-90°C LC -1°C	Clause 20 of IS 302 (PART 2/SEC23)	Permanent
136	Safety of household and similar electrical appliances – particular requirements – appliances for skin or hair care	Mechanical Strength	0-500 N LC 0.1N	(Clause 21 of IS 302 (PART 2/SEC23)	Permanent
137		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1sec	(Clause 22 of IS 302 (PART 2/SEC23)	Permanent
138		Internal Wiring	0-10kV, LC-0.1 kV 0-99999 flexing	(Clause 23 of IS 302 (PART 2/SEC23)	Permanent
139		Component	0-10 kV LC-0.1 kV 0-99999 Cycles	(Clause 24 of IS 302 (PART 2/SEC 23)	Permanent
140		Supply Connection and External Flexible Cord	(100 & 60) N 0-10 kV LC-0.1 Kv	(Clause 25 of IS 302 (PART 2/SEC 23)	Permanent
141		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	(Clause 26 of IS 302 (PART 2/SEC 23)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
142		Provision For Earthing	0 to 5 Ohm	(Clause 27 of IS 302 (PART 2/SEC 23)	Parmanent
143		Screws and Connections	20-120cNm, LC:20cNm 1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	(Clause 28 of IS 302 (PART 2/SEC23)	Parmanent
144		Clearances, Creepage Distance	0-150mm/ 0.01 mm 0.02-1.0mm	(Clause 29 of IS 302 (PART 2/SEC23)	Parmanent
145		Resistance to Heat & Fire	Amb-250°C/0.1°C Radius 2.5mm, Force 20±0.2N Range: 0° to 1000°C, LC: 1 to 200/5 A, LC: 0.1 A, Range: 0 to 99.9s, LC:0.1s	(Clause 30 of IS 302 (PART 2/SEC23)	Parmanent
146		Resistance to Rusting	Amb- 250°C /0.1°C	(Clause 31 of IS 302 (PART 2/SEC23)	Parmanent
147		Radiation Toxicity and Similar Hazards	Qualitative (Visual inspection)	(Clause 32 of IS 302 (PART 2/SEC23)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
148	Safety of Household and Similar Electrical Appliances – Particular Requirements –	Classification	Qualitative (Visual Inspection)	Clause 6 of IS 302 (PART 2/SEC 75)	Permanent
149	Commercial Dispensing Appliances and Vending Machines	Marking & Instructions	0.99.99hr, LC: 0.01	Clause 7 of IS 302 (PART 2/SEC 75)	Permanent
150		Protection Against Access to live parts	0-99.9 V LC: 0.1	Clause 8 of IS 302 (PART 2/SEC 75)	Permanent
151		Power Input	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 10 of IS 302 (PART 2/SEC 75)	Permanent
152		Heating	Amb to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 11 of IS 302 (PART 2/SEC 75)	Permanent
153		Leakage Current and Electric Strength	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, LC-0.001Amp 0-10 kV LC-0.1 kV 0-1999µA, LC=1µA	Clause13 of IS 302 (PART2/SEC75)	Permanent
154		Transient	0-10 kV,	Clause14 of IS 302	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Overvoltage	LC 0.0011.2/50μS	(PART2/SEC75)	
155		Moisture Resistance	-40°C to 200°C/0.1°C 10% to 93% RH 0.1% RH	Clause 15 of IS 302 (PART 2/SEC 75)	Parmanent
156		Leakage Current and Electric Strength	0-10 kV LC-0.1 kV 0-1999μA, LC=1μA	Clause 16 of IS 302 (PART 2/SEC 75)	Parmanent
157		Overload Protection of Transformer	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 17 of IS 302 (PART 2/SEC 75)	Parmanent
158		Endurance	0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 18 of IS302 (PART 2/SEC 75)	Parmanent
159		Abnormal Operation	0-10 kV LC-0.1 kV Amb temp. to 599.9°C, LC:0.1°C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 19 of IS 302 (PART 2/SEC75)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
160		Stability And Mechanical Hazards	0-90° LC -1°	Clause 20 of IS 302 (PART 2/SEC 75)	Permanent
161		Mechanical Strength	0-500 N, LC 0.1N	Clause 21 of IS 302 (PART 2/SEC 75)	Permanent
162		Construction	0-500 N LC 0.1N 0-24hr, LC 0.1sec	Clause 22 of IS 302 (PART 2/SEC 75)	Permanent
163		Internal Wiring	0-10 kV, LC-0.1 kV 0-99999 flexing	Clause 23 of IS 302 (PART 2/SEC:75)	Permanent
164	Safety of Household and Similar Electrical Appliances – Particular Requirements –	Component	0-10 kV LC-0.1 kV 0-99999 Cycles	Clause 24 of IS 302 (PART 2/SEC 75)	Permanent
165	Commercial Dispensing Appliances and Vending Machines	Supply Connection and External Flexible Cord	(100 & 60) N 0-10 kV LC-0.1 kV 0.02μΩ to 99.0Ω, LC: 0.01	Clause 25 of IS 302 (PART 2/SEC 75)	Permanent
166		Terminals for External Conductors	0-150mm, LC:0.01mm 0-500 N LC 0.1N	Clause 26 of IS 302 (PART 2/SEC 75)	Permanent
167		Provision For Earthing	0 to 5 Ohm	Clause 27 of IS 302 (PART 2/SEC 75)	Permanent
168		Screws and	20-120cNm, LC:20cNm	Clause 28 of IS 302	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Connections	1-6 Nm, LC: 0.01Nm 0-150mm, LC:0.01mm	(PART 2/SEC 75)	
169		Clearances, Creepage Distance	0-150 mm/0.01 mm 0.02-1.0 mm	Clause 29 of IS 302 (PART 2/SEC 75)	Permanent
170		Resistance to Heat & Fire	Amb- 250°C /0.1°C Radius 2.5mm, Force 20±0.2N Range: 0 to 1000°C, LC: 1 to 200/5 A, LC: 0.1 A, Range: 0 to 99.9s, LC: 0.1s	Clause 30 of IS 302 (PART 2/SEC 75)	Permanent
171		Resistance to Rusting	Amb- 250°C /0.1°C	Clause 31 of IS 302 (PART 2/SEC 75)	Permanent
172		Radiation Toxicity and Similar Hazards	Qualitative (Visual Inspection)	Clause 32 of IS 302 (PART 2/SEC 75)	Permanent
173	Finned Type Heat Exchanger for Room air Conditioner	Classification And Nomenclature	Qualitative (Visual Inspection)	(Clause 4 of IS:11329)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
174		Material	Qualitative (Visual Inspection)	(Clause 5 of IS:11329)	Permanent
175		Quality Requirements	Qualitative (Visual Inspection)	(Clause 6 of IS:11329)	Permanent
176		Permissible Assembly Contamination	0-200mg/m3 0.00mg/m3	(Clause 7.1 of IS:11329)	Permanent
177		Pressure test for Assembly tightness	0-200mg/m3 0.00mg/m3	(Clause 7.2 of IS:11329)	Permanent
178		Test for mechanical strength	0-200mg/m3 0.00mg/m3	(Clause 7.3 of IS: 11329)	Permanent
179		Test for Corrosion resistance	Amb to 45°C, 0.1°C Amb to 99%Rh,1% Rh	(Clause 7.4 of IS: 11329)	Permanent
180		Marking	Qualitative (Visual Inspection)	(Clause 8 of IS: 11329)	Permanent
Discipline:- Electrical, Group:-Power Supplies & Stabilizers					
181	POWER STABILISERS AND UPS UPS/Invertors of rating ≤	Power Interface	1W-15KW, 0.1V-600V, 0.1A-80A	(Cl. 4.6 (RD 1.6.2)) IS 16242-1 IEC 62040-1	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
182	10KVA (Linear and Non Linear Load facility UPS/Inverters of rating	Marking and Instructions	Qualitative (Visual Inspection)	(Cl. 4.7.16) (Cl.4.7.11/R D) IS 16242-1 IEC 62040-1	Permanent
183		Protection against electric shock and energy hazards	(Qualitative)	(Cl. 5.1.1,5.1.2, CL 5.1.3, CL 2.1.1/R D, CL 5.1.4, CL 2.10.3.3/RD) IS 16242- 1 IEC 62040-1	Permanent
184		Requirement of auxiliary circuits	0.01-5 kV,0.1-15KW, 0.1-350V, 1200 Ω, 0.01-20mA	Cl.5.2.1, CL 2.2/RD, CL 5.2.2, CL 2.3/RD CL 5.2.3/CL 2.4/RD, CL 5.2.5, CL 2.5/RD 5.2.5, CL 2.5/RD) IS 16242-1 IEC 62040-1	Permanent
185		Protective earthing and bonding	1-200A, 0.01-19.99V	(Cl. 5.3 (RD 2.6)) IS 16242-1 IEC 62040-1	Permanent
186		AC and D.C. power isolation	Qualitative (Visual Examination)	(Cl. 5.4), CL3.4/RD) IS 16242-1 IEC 62040-1	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
187		Over current and earth fault protection	Qualitative (Visual Examination)	(Cl. 5.5), CL 2.7.3 to 2.7.6/ RD IS 16242-1 IEC 62040-1	Permanent
188		Protection of personnel - Safety interlocks	0.1-99.9V, Test Finger as per Figure 2A, 0.1-350V, 0.1-800N, 0.01-5kV, up to 100000 Cycles	(Cl.5.6.1/5.6.2.1/ 5.6.2.2/5.6.2.3/ 5.6.2.4 (RD 2.8)) IS 16242-1 IEC 62040-1	Permanent
189		Clearance, creepage distances and distance through insulation	0.01-150 & 0.01-25mm, 0.04-1mm, 0.01-12kV (1.2/50 μs), 00.1-12kV(10/700μs), 0.1-600V, 0.01-1 A(Tracking), 0.01-10 N	(Cl. 5.7) (Cl.2.10.1 to 2.10.5.14/RD) IS16242-1 IEC 62040-1	Permanent
190		Wiring, connections and supply	0.1-250N, 0.01-150mm, 0.01-25mm, 0.01-5kV	(Cl. 6 (RD 3.0(3.1. 1 to3.1.10) IS 16242-1 IEC 62040-1	Permanent
191		Connection to	Up to 10 Kg (Dead	(Cl. 6.2 (RD	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		power	Weight) 0.01-150mm, 0.1-6 Nm	3.2.2 to 3.2.9)) IS 16242-1 IEC 62040-1	
192	POWER STABILISERS AND UPS UPS/Invertors of rating ≤ 10KVA	Wiring terminal for external power conductor	0.01-150mm, 0.01-25mm	(Cl. 6.3 (RD 3.3)) IS 16242-1 IEC 62040-1	Parmanent
193	(Linear and Non Linear Load facility UPS/Invertors of rating	Enclosure	0.1-99.9V, Test Probe 2A,2B,2C, 2D, 0.1-350 V, 0.1-500 N	(Cl. 7.1 (RD 2.1)) IS 16242-1 IEC 62040-1	Parmanent
194		Stability	Inclined Plane 10° and 15°, 0.1-999.9N, 0.01-100Kg	(Cl. 7.2(RD 4.1)) IS 16242-1 IEC 62040-1	Parmanent
195		Mechanical strength	0.1-999.9N, 500 g (Dead weight), 50mm diameter, Test Figure 2A, 0.01-100 Kg, Amb- 400°C	(Cl. 7.3(RD 4.2)) IS 16242-1 IEC 62040-1	Parmanent
196		Constructions Details	0.01-300mm, 0.01-50Kg, 0.1-500N, 0.1-	(Cl. 7.4(RD 4.3 to 4.6)) IS 16242-1 IEC 62040-1	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			12Nm, 0.1-350V, 0.01-25A, 0.1- 500N, Amb-300°C, 1999 $\mu\Omega$ -19.99K Ω , Amb-400°C, 20N (Ball Pressure),		
197		Resistance to fire	Qualitative (Visual Inspection)	(Cl. 7.5) IS 16242-1 IEC 62040-1	Permanent
198		Battery location	0.01-5 kV, 0.01-150mm	(Cl. 7.6.4 & 7.6.7/M.2 (RD5.2)) IS 16242-1 IEC 62040-1	Permanent
199		Temperature rise	Amb- 300°C, 1999 $\mu\Omega$ -19.99 K Ω , 0-Amb- 400 °C, 20N (Ball Pressure), 0.01-120 mm	(Cl. 7.7 (RD 4.5)) IS 16242-1 IEC 62040-1	Permanent
200		General Provision for Earth Leakage	0.01-3.5mA, 0.1-350 V	(Cl. 8.1 (RD 5.1.1)) IS 16242-1 IEC 62040-1	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
201		Electric strength	0.01-5V, 0.01-150mm,	(Cl. 8.2 (RD 5.2)) IS 16242-1 IEC 62040-1	Parmanent
202		Abnormal operation and fault conditions	Amb-300° C, 1-15kW 0.1V to 600V	(Cl. 8.3.1/8.3.2 (RD 5.3.1,5.3.2,5.3.3, 5.3.4, 5.3.5, 5.3.9)) IS 16242-1 IEC 62040-1	Parmanent
203		Connection to telecommunication networks	0.01-5kV, 0.01-150mm, 0.1-500 N, 100kΩ-20GΩ, 0.01-12kV (1.2/50μs) 0.01-12kV	(Cl. 9 (6/RD & 3.5/RD)) IS 16242-1 IEC 62040-1	Parmanent

Discipline:-Electrical, Group:-Environmental Testing

204	Electrical, Electronics, Automotive and Other Products and components	Salt Spray Test	Amb to 55°C, LC0.1°C Amb to 99% RH, LC-1 % RH	ISO 9227, JIS Z 2371, ASTM B368, IS 5528, IS 9844, ASTM B117	Parmanent
205		Bump/shock/ vibration test	1Hz to 3200Hz, LC: 1Hz 0g to 500g,	JSS 55555, IEC 60068-2-27,	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			LC:0.1g 0mm to 100mm, LC:0.1mm	QM 333, IEC 60068-2-64, MIL-STD-810, IEC 60068-2-6, IEC 61373, IEC 60571	
206		Low temperature/ Cold test	-60°C to 800°C	QM 333, IEC 60068-2-1, IEC 60571, MIL-STD-810, JSS 55555	Parmanent
207		Heat/Dry Heat	-60°C to 800°C	JASO D 001, QM 333, IEC 60068-2-2, IS:9000(Part III/sec 1 to 5), IS 9000(Part VIII)	Parmanent
208		Humidity/ Humidity heat/Damp heat	-60°C to 800°C, Lc 0.1°C 10% Rh to 99% Rh, LC: 1% Rh	IEC 60068-2-78, IEC 60068-2-30, IS:9000(Part VI), MIL-STD-810, QM 333, IEC 60571, JSS 55555, ISO 16750-4	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
Discipline:- Electrical, Group:- Cells & Batteries					
209	SCEONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SAFETY REQUIRMENTS FOR PORTABLE SEALED SCEONDARY LITHUIM BATTERY AND CELLS FOR USE IN PORTABLE APPLICATIONS	Cell Designation and marking	Qualitative (Visual Inspection)	CI 5 of IS:16047 (part-3)	Parmanent
210		General	Qualitative (Visual Inspection)	CI 7.1 of IS:16047 (part-3)	Parmanent
211		Charging procedure for test purpose	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	CI 7.2 of IS:16047 (part-3)	Parmanent
212		Discharge performance	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	CI 7.3 of IS:16047 (part-3)	Parmanent
213		Charge (capacity) retention and recovery	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	CI 7.4 of IS:16047 (part-3)	Parmanent
214		Charge (capacity) recovery after long term storage	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	CI 7.5 of IS:16047 (part-3)	Parmanent
215		Endurance in cycle	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	CI 7.6 of IS:16047 (part-3)	Parmanent
216		Test protocol	Qualitative	CI 8.1 of IS:16047 (part-3)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			(Visual Inspection)	3)	
217		Dimensions	0-150mm, Lc 0.01mm	CI 8.2.1 of IS:16047 (part-3)	Parmanent
218		Electrical test	0.6V to 22V 10mA to 20A	CI 8.2.2 of IS:16047 (part-3)	Parmanent
219		Conditional type Approval	Qualitative (Visual Inspection)	CI 8.2.3 of IS:16047 (part-3)	Parmanent
220	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Portable sealed	Charging Procedure for test purpose	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	(CI 7.1) IS16046 (Part1) IEC 62133-1	Parmanent
221	secondary Cells and for batteries made from them, for use in portable Application (Nickel system)	Continuous Charging at constant voltage (cells)	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	(CI 7.2.1) IS16046 (Part1) IEC 62133-1	Parmanent
222		Vibration	0.6V to 22V 10mA to 20A 1- 2000Hz, 200g	(CI 7.2.2) IS16046 (Part1) IEC 62133-1	Parmanent
223		Case stress at high temperature	0.6V to 22V 10mA to 20A	(CI 7.2.3) IS16046 (Part1) IEC 62133-1	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		(battery)	- 40 °C to 200 °C		
224		Temperature Cycling	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	(CI 7.2.4) IS16046 (Part1) IEC 62133-1	Parmanent
225		Incorrect Installation (cell)	0.6V to 22V 10mA to 20A Resistance:80±20mΩ	(CI 7.3.1) IS16046 (Part1) IEC 62133-1	Parmanent
226		External short circuit (battery)	0.6V to 22V 10mA to 20A Resistance:80±20mΩ	(CI 7.3.2) IS16046 (Part1) IEC 62133-1	Parmanent
227		Free fall	Length: up to1Mtr 0.6V to 22V 10mA to 20A	(CI 7.3.3) IS16046 (Part1) IEC 62133-1	Parmanent
228		Mechanical Shock (Crash hazards)	0.6V to 22V 10mA to 20A 1-2000Hz, 200g	(CI 7.3.4) IS16046 (Part1) IEC 62133-1	Parmanent
229		Thermal Abuse (cells)	Amb- 250°C 0.6V to 22V 10mA to 20A	(CI 7.3.5) IS16046 (Part1) IEC 62133-1	Parmanent
230		Crush of Cells	Force: Up to 13KN±0.78KN	(CI 7.3.6) IS16046 (Part1)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.6V to 22V 10mA to 20A	IEC 62133-1	
231		Low Pressure (Cells)	Up to 11.6Kpa 0.6V to 22V 10mA to 20A	(CI 7.3.7) IS16046 (Part1) IEC 62133-1	Parmanent
232		Overcharge	0.6V to 22V 10mA to 20A	(CI 7.3.8) IS16046 (Part1) IEC 62133-1	Parmanent
233		Forced Discharge (cells)	0.6V to 22V 10mA to 20A	(CI 7.3.9) IS16046 (Part1) IEC 62133-1	Parmanent
234		Information for Safety	Qualitative (Visual Inspection)	(CI 8) IS16046 (Part1) IEC 62133-1	Parmanent
235		Marking	Qualitative (Visual Inspection)	(CI 9) IS16046 (Part1) IEC 62133-1	Parmanent
236		Packaging and Transport	Qualitative (Visual Inspection)	(CI 10) IS16046 (Part1) IEC 62133-1	Parmanent
237	Secondary Cells and Batteries Containing	Charging Procedure for test purpose	0.6V to 22V 10mA to 20A	(CI 7.1) IS16046 (Part 2) IEC 62133-2	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Alkaline or Other Non-Acid Electrolytes- Portable sealed secondary cells and for batteries made for them for use in portable applications (Lithium System)		- 40 °C to 200 °C		
238		Continuous Charging at constant voltage (cells)	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	(CI 7.2.1) IS16046 (Part 2) IEC 62133-2	Permanent
239		Case stress at high temperature (battery)	0.6V to 22V 10mA to 20A - 40 °C to 200 °C	(CI 7.2.2) IS16046 (Part 2) IEC 62133-2	Permanent
240		External short circuit (cell)	0.6V to 22V 10mA to 20A Resistance:80±20mΩ	(CI 7.3.1) IS16046 (Part 2) IEC 62133-2	Permanent
241		External short circuit (battery)	0.6V to 22V 10mA to 20A Resistance:80±20mΩ	(CI 7.3.2) IS16046 (Part 2) IEC 62133-2	Permanent
242		Free fall	Length: up to 1Mtr 0.6V to 22V 10mA to 20A	(CI 7.3.3) IS16046 (Part 2) IEC 62133-2	Permanent
243		Thermal Abuse (cells)	Amb- 250°C 0.6V to 22V 10mA to 20A	(CI 7.3.4) IS16046 (Part 2) IEC 62133-2	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
244		Crush of Cells	Force: Up to 13KN± 0.78KN 0.6V to 22V 10mA to 20A	(CI 7.3.5) IS16046 (Part 2) IEC 62133-2	Parmanent
245		Over-charging of battery	0.6V to 22V 10mA to 20A	(CI 7.3.6) IS16046 (Part 2) IEC 62133-2	Parmanent
246		Forced Discharge (cells)	0.6V to 22V 10mA to 20A	(CI 7.3.7) IS16046 (Part 2) IEC 62133-2	Parmanent
247		Vibration	0.6V to 22V 10mA to 20A 1- 2000Hz, 200g	(CI 7.3.8.1) IS16046 (Part 2) IEC 62133-2	Parmanent
248		Mechanical Shock	0.6V to 22V 10mA to 20A 1- 2000Hz, 200g	(CI 7.3.8.2) IS16046 (Part 2) IEC 62133-2	Parmanent
249		Design evaluation- Forced internal Short-Circuit (cells)	Qualitative (Visual Inspection)	(CI 7.3.9) IS16046 (Part 2) IEC 62133-2	Parmanent
250		Information for	Qualitative	(CI 8) IS16046 (Part 2)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Safety	(Visual Inspection)	IEC 62133-2	
251		Marking	Qualitative (Visual Inspection)	(CI 9) IS16046 (Part 2) IEC 62133-2	Parmanent
252		Packaging and Transport	Qualitative (Visual Inspection)	(CI 10) IS16046 (Part 2) IEC 62133-2	Parmanent
Discipline:- Electronics, Groups:- IT & Equipments					
253	Information Technology Equipments-safety (Automatic data processing machine, Laptop/notebook/	General Requirement	Qualitative (Visual Inspection)	(Clause 1.3 of IS:13252-1)	Parmanent
254	tablet, printers, Plotters, scanners, set top box, Telephone answering machines,	General Conditions for test	Qualitative (Visual Inspection)	(Clause 1.4 of IS:13252-1)	Parmanent
255	Visual display units, videos monitors,	Components	Qualitative (Visual Inspection)	(Clause 1.5 of IS:13252-1)	Parmanent
256	Wireless keyboards, cash registers, copying machines/duplicators, Passport reader, point of sale,	Power Interface	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, L C0.001Amp	(Clause 1.6 of IS:13252-1)	Parmanent
257	terminals mail processing machines/	Marking & Instructions	0.99.99hr, LC: 0.01	(Clause 1.7 of IS:13252-1)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
258	postage machines/franking machines, Power banks for use in portable applications, Smart card reader,	Protection from electric shock and energy hazards	0-999.9, LC 0.1N 0-99.9V, LC 0.1V	(Clause 2.1 of IS:13252-1)	Permanent
259	Mobile phones, Power adaptors for it equipments, CCTV Cameras/CCTV Recorders	SELV Circuits	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, L C0.001Amp	(Clause 2.2 of IS:13252-1)	Permanent
260	USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners Smart watches, Keyboard	TNV Circuits	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, L C0.001Amp	(Clause 2.3 of IS:13252-1)	Permanent
261	Automatic Teller Cash dispensing machines USB Type External Hard Disk Drive	Limited Current Circuits	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, L C0.001Amp	(Clause 2.4 of IS:13252-1)	Permanent
262	USB Type External Solid-State Storage Devices	Limited Power Sources	0-5000 W, LC:1W 0-300V, LC-1V 0-30Amp, L C0.001Amp	(Clause 2.5 of IS:13252-1)	Permanent
263	Standalone Switch Mode Power Supplies (SMPS) Digital Camera)	Provisions for earthing and bonding	0-5 ohm, Lc 0.001 ohm	(Clause 2.6 of IS:13252-1)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
264		Overcurrent and earth fault protection in primary circuits	Qualitative (Visual Inspection)	(Clause 2.7 of IS:13252-1)	Permanent
265		Safety Interlocks	Qualitative (Visual Inspection)	(Clause 2.8 of IS:13252-1)	Permanent
266	Information Technology Equipments-safety (Automatic data processing machine, Laptop/notebook/	Electric Insulation	0-10Kv, 0.001Kv	(Clause 2.9 of IS:13252-1)	Permanent
267	tablet, printers, Plotters, scanners, set top box, Telephone answering machines,	Clearance, Creepage distance and distance through insulation	0-150mm, Lc 0.001	(Clause 2.10 of IS:13252-1)	Permanent
268	Visual display units, videos monitors, Wireless keyboards,	Wiring Connections and supply-General	Qualitative (Visual Inspection)	(Clause 3.1 of IS:13252-1)	Permanent
269	cash registers, copying machines/duplicators, Passport reader,	Connection to mains supply	Qualitative (Visual Inspection)	(Clause 3.2 of IS:13252-1)	Permanent
270	point of sale, terminals mail processing machines/postage machines/franking machines,	Wiring terminal for connection of external conductor	Qualitative (Visual Inspection)	(Clause 3.3 of IS:13252-1)	Permanent
271	Power banks for use in	Disconnection from the mains supply	Qualitative (Visual Inspection)	(Clause 3.4 of IS:13252-1)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
272	portable applications, Smart card reader,	Interconnection of equipment	Qualitative (Visual Inspection)	(Clause 3.5 of IS:13252-1)	Permanent
273	Mobile phones, Power adaptors for it equipments, CCTV Cameras/CCTV Recorders	Stability	250 & 800N, 25Kg, 10° & 15°	(Clause 4.1 of IS:13252-1)	Permanent
274	USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint	Mechanical Strength	250 N±10N	(Clause 4.2 of IS:13252-1)	Permanent
275	scanners Smart watches, Keyboard	Design and construction	Qualitative (Visual Inspection)	(Clause 4.3 of IS:13252-1)	Permanent
276	Automatic Teller Cash dispensing machines USB Type External Hard Disk Drive	Protection against hazardous moving parts	Test Finger 30 N	(Clause 4.4 of IS:13252-1)	Permanent
277	USB Type External Solid-State Storage Devices Standalone Switch Mode	Thermal Requirements	0-250°C	(Clause 4.5 of IS:13252-1)	Permanent
278	Power Supplies (SMPS) Digital Camera)	Opening of enclosure	0-300mm, LC 0.01mm	(Clause 4.6 of IS:13252-1)	Permanent
279		Resistance to fire	100 to 1100°C, LC 0.1°C	(Clause 4.7 of IS:13252-1)	Permanent
280		Touch Current and protective conductor current	0-50mA, 0.001mA	(Clause 5.1 of IS:13252-1)	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
281		Electric Strength	0-10Kv, 0.001Kv	(Clause 5.2 of IS:13252-1)	Parmanent
282		Abnormal Operating and fault conditions	0 - 600±0.1° C	(Clause 5.3 of IS:13252-1)	Parmanent
283	Information Technology Equipments-safety (Automatic data processing machine, Laptop/notebook/ tablet, printers, Plotters, scanners, set top box, Telephone answering machines, Visual display units, videos monitors,	Protection of Telecommunication network service person, and User of other Equipments connected to the network, from hazards in Equipments	0-10Kv, 0.001Kv	(Clause 6.1 of IS:13252-1)	Parmanent
284	Wireless keyboards, cash registers, copying machines/duplicators, Passport reader, point of sale, terminals mail processing machines/	Protection of Equipment user from over voltage on Telecommunication networks	0 -1000GΩ, LC 0.1MΩ	(Clause 6.2 of IS:13252-1)	Parmanent
285	postage machines/franking machines, Power banks for use in portable applications, Smart	Protection of Telecommunication wiring system from overheating	0-30 min, 0.01min	(Clause 6.3 of IS:13252-1)	Parmanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
286	card reader, Mobile phones, Power adaptors for it equipments, CCTV Cameras/CCTV	Connections to cable distribution system	Qualitative (Visual Inspection)	(Clause 7.1 of IS:13252-1)	Permanent
287	Recorders USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners Smart watches, Keyboard Automatic Teller Cash dispensing machines USB Type External Hard Disk Drive USB Type External Solid-State Storage Devices	Protection of cable Distribution system service person, and user of other Equipments connected to the system, from hazardous voltage in the equipment	Qualitative (Visual Inspection)	(Clause 7.2 of IS:13252-1)	Permanent
288	Standalone Switch Mode Power Supplies (SMPS) Digital Camera)	Protection of Equipment users from over voltage on cable distribution System	Qualitative (Visual Inspection)	(Clause 7.3 of IS:13252-1)	Permanent
289		Insulation Between primary circuit and cable distribution system.	0-10Kv, LC 0.01 KV 1.2/50 micro-sec	(Clause 7.4 of IS:13252-1)	Permanent
Discipline:- Electronics, Group:-Domestic Electronic Appliances & Accessories					
290	Audio, Video and Similar	Marking &	0.99.99hr, LC: 0.01	Clause 5 of	Permanent

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Amendment date: N/A

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Electronic Apparatus – Safety Requirements	Instructions		IS: 616	
291	(Electronic Games (Video), Plasma/ LCD/LED Televisions & above, Optical	Hazardous radiation	Qualitative (Visual Inspection)	Clause 6 of IS: 616	Permanent
292	Disc Players with built in amplifiers of input power 200W and above, Amplifiers with input power 2000W and above, Electronic Musical Systems with input power 200W and above,	Heating under normal operating conditions	Amb to 599.90C, LC:0.10C 0-5000 W, LC:1W 0- 300V, LC-1V 0-30Amp, LC-0.001Amp	Clause 7 of IS: 616	Permanent
293	Power Adaptors for Audio, Video & Similar Electronic Apparatus, Wireless Headphone and Earphone, Electronic Musical System with input power below 200 Watts, Television other than Plasma/ LCD/LED TVs,	Constructional requirements with regard to the protection against electric shock	0-98%RH, 0-180°C, 0.1-10kV, 1-1000N, 0-24hr, 0-150mm	Clause 8 of IS: 616	Permanent
294	Wireless microphone, Video Camera, Webcam, Smart Speakers, Bluetooth speakers	Electric shock hazards under normal operating Conditions	0-20 mA, 0-150 mm, 0-24hr, 0-1000 N	Clause 9 of IS: 616	Permanent
295		Insulation requirements	0-9999G- ohm, Lc- 1 ohm	Clause 10 of IS: 616	Permanent
296		Fault Conditions	Amb temp. to	Clause 11 of	Permanent

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			599.9°C, LC:0.1°C	IS: 616	
297		Mechanical Strength	0-150mm,1-100kg, 0.15-3joule, 1-1000N, 0 - 200°C	Clause 12 of IS: 616	Permanent
298		Clearances and creepage distances	0-150mm, 0.001mm	Clause 13 of IS: 616	Permanent
299		Components	Qualitative (Visual Inspection)	Clause 14 of IS: 616	Permanent
300		Terminals	0-5 Ohm, Lc 0.001Ohm	Clause 15 of IS: 616	Permanent
301		External flexible cords	0-5 Ohm, Lc 0.001Ohm	Clause 16 of IS: 616	Permanent
302		Electrical connections and Mechanical fixing	0 to100kg, 0-150mm,0.25 Nm	Clause 17 of IS: 616	Permanent
303		Mechanical strength of picture tubes and protection against the effect of implosion	Qualitative (Visual Inspection)	Clause 18 of IS: 616	Permanent



International Quality And Accreditation Services Pvt. Ltd.
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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
304		Stability and mechanical hazards	0-1000N, Lc 1N	Clause 19 of IS: 616	Parmanent
305		Resistance to fire	0-1100°C, Lc 1°C	Clause 20 of IS: 616	Parmanent

This is annexure to 'Certificate of Accreditation' and does not require any signature

Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India