



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

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Page No

1 of 24

Validity

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Terminals	IS 616 (Cl.: 9.1.4)
2	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Resistance to external forces	IEC 60065(Cl.:9.1.7)
3	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Withdrawal of Mains Plug	IEC 60065(Cl.: 9.1.6)
4	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Constructional requirements with regards to protection against electric shock	IEC 60065 (Cl.: 8.2, 8.3, 8.4, 8.5,8.6,8.8,8.9,8.10,8.11,8.12, 8.13,8.14, 8.17)
5	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Accessible parts	IEC 60065(Cl.: 9.1.1.3)
6	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Hazardous Live parts	IEC 60065(Cl.: 9.1.1.2)
7	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Terminals	IEC 60065(Cl.: 9.1.4)
8	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	External flexible cords	IEC 60065(Cl.: 16.5)
9	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	External flexible cords	IS 616(Cl.: 16.5)
10	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fault conditions Electrical shock hazard	IEC 60065 (Cl.: 11.1)



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ISO/IEC 17025:2017

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Page No

2 of 24

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11	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fault conditions Electrical shock hazard	IS 616 (Cl.11.1)
12	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Apparatus Containing Coin/ Button Cell Batteries	IS 616(Cl. 12.7.1, 12.7.2, 12.7.3.2, 12.7.3.3, 12.7.3.4, 12.7.3.5, 12.7.3.6)
13	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Antenna Coaxial Sockets Mounted on the Apparatus-Endurance, Impact, Torque Test	IS 616 (Cl. 12.5)
14	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Antenna Coaxial Sockets Mounted on the Apparatus-Endurance, Impact, Torque Test	IEC 60065(Cl. 12.5)
15	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Apparatus Containing Coin/ Button Cell Batteries	IEC 60065(Cl. 12.7.1, 12.7.2, 12.7.3.2, 12.7.3.3, 12.7.3.4, 12.7.3.5, 12.7.3.6)
16	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Bump Test	IEC 60065(Cl. 12.1.2)
17	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Bump Test	IS 616
18	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Clearances	IEC 60065(Cl.: 13.3.1, 13.3.2, 13.3.3)
19	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Clearances	IS 616 (Cl.: 13.3.1, 13.3.2, 13.3.3)
20	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Constructional requirements with regards to protection against electric shock	IS 616 (Cl.: 8.2, 8.3, 8.4, 8.5,8.6,8.8,8.9,8.10,8.11,8.12, 8.13,8.14, 8.17)
21	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Creepage distances	IEC 60065(13.4)



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ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

3 of 24

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22	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Creepage distances	IS 616 (13.4)
23	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Accessible parts	IS 616 (Cl.: 9.1.1.3)
24	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Hazardous Live parts	IS 616 (Cl.: 9.1.1.2)
25	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Working Voltage	IS 616 (Cl.: 13.2)
26	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Determination of Working Voltage	IEC 60065 (Cl.: 13.2)
27	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Devices forming a part of the Mains plug	IS 616 (Cl.: 15.4.1, 15.4.3)
28	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Devices forming a part of the Mains plug	IEC 60065 (Cl.: 15.4.1, 15.4.3)
29	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Drawers	IEC 60065 (Cl.: 12.4)
30	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Drawers	IS 616 (Cl.: 12.4)
31	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Drop Test	IEC 60065 (Cl. 12.1.5, 12.7.3.4)
32	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Drop Test	IS 616 (Cl. 12.1.5, 12.7.3.4)



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ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

4 of 24

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33	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Electrical Connections and mechanical fixings	IS 616 (Cl.: 17)
34	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Electrical Connections and mechanical fixings	IEC 60065 (Cl.: 17)
35	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fault conditions - Heating	IEC 60065 (Cl. 11.2)
36	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fault conditions - Heating	IS 616 (Cl. 11.2)
37	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fixing of Actuating Elements	IEC 60065 (Cl.: 12.2)
38	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Fixing of Actuating Elements	IS 616 (Cl.: 12.2)
39	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Flammability test methods	IEC 60065 (Annex G)
40	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Flammability Test Methods	IS 616 (Annex G)
41	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Heating under normal operating conditions	IEC 60065 (Cl. 7)
42	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Heating under normal operating conditions	IS 616 (Cl. 7)
43	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Humidity Treatment	IEC 60065 (Cl.:10.3)



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Page No

5 of 24

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44	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Humidity Treatment	IS 616 (Cl.:10.3)
45	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Impact Test	IEC 60065 (Cl. 12.1.4 / 12.7.3.5)
46	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Impact Test	IS 616 (Cl. 12.1.4 / 12.7.3.5)
47	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Marking and Instructions	IEC 60065(Cl.:5)
48	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Marking and Instructions	IS 616 (Cl.:5)
49	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Measurement of Transient Voltages	IS 616 (Cl.: 13.3.4)
50	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Measurement of Transient Voltages	IEC 60065 (Cl.: 13.3.4)
51	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Normal Operating Conditions	IEC 60065 (Cl.:4.2)
52	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Normal Operating Conditions	IS 616(Cl.:4.2)
53	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Openings of The Enclosure	IEC 60065 (Cl.: 9.1.3)
54	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Openings of the enclosure	IS 616(Cl.:9.1.3)



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ISO/IEC 17025:2017

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TC-13132

Page No

6 of 24

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55	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Pre- set controls	IS 616 (Cl. 9.1.5)
56	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Pre-set controls	IEC 60065 (Cl: 9.1.5)
57	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Provisions for Protective Earthing	IEC 60065 (Cl.: 15.2)
58	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Provisions for Protective Earthing	IS 616 (Cl.: 15.2)
59	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Resistance to external forces	IS 616 (Cl: 9.1.7)
60	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Stability and Mechanical Hazards	IS 616 (Cl.: 19.1, 19.2, 19.3 19.4, 19.5, 19.7)
61	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Stability and Mechanical Hazards	IEC 60065 (Cl.: 19.1, 19.2, 19.3 19.4, 19.5, 19.7)
62	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Stress relief test	IEC 60065 (Cl.: 12.1.6 / 12.7.3.2)
63	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Stress relief test	IS 616 (Cl.: 12.1.6 / 12.7.3.2)
64	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Telescoping or rod antennas	IEC 60065 (Cl.:12.6)
65	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Telescoping or rod antennas	IS616 (Cl.: 12.6)



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7 of 24

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66	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Terminals for external flexible cords and for permanent connection to the mains supply	IS 616 (Cl.: 15.3.2)
67	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Terminals for external flexible cords and for permanent connection to the mains supply	IEC 60065 (Cl.: 15.3.2)
68	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Vibration Test	IEC 60065 (Cl.: 12.1.3)
69	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Vibration test (	IS 616 Cl.: 12.1.3)
70	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers , Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Withdrawal of Mains Plug	IS 616 (Cl: 9.1.6)
71	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers, Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Insulation requirements	IEC 60065 (Cl.10)
72	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Electronic Apparatus (Electronic games (Video), Amplifiers, Electronic Musical system, Optical disk players, Television, Power adaptor for audio, video and electronic equipment's)	Insulation requirements	IS 616 (Cl. 10)
73	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Endurance Test	IEC 60335-2-25 / IEC 60335-1:2016 / IS 302-1 (Cl. 18) : 2013 (Annex AA)
74	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Abnormal operation	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1, (Cl. 19.101, 19.102, 19.103, 19.104, 19.105, 19.11.2, 19.13) Amd 3
75	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Clearances, creepage distances and solid insulation	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 29) Amd 3



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8 of 24

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76	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Construction	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 22, 22.1) Amd 3
77	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Construction	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 22.3, 22.5, 22.11, 22.12, 22.26, 22.27, 22.53, 22.103, 22.105, 22.108, 22.109, 22.110, 22.111, 22.112, 22.113, 22.115, 22.116, 22.118, 22.119), Amd 3
78	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Heating	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 11.1, 11.2, 11.3, 11.4, 11.7, 11.8) Amd 3
79	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Internal wiring	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 23) Amd 3
80	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Leakage current and electric strength	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 13, Cl. 16, Cl. 16.101) Amd 3
81	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Marking and Instructions	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 7) Amd 3
82	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Mechanical strength	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 21.1, 21.2, Cl. 21.102, 21.103, 21.104, 21.105) Amd 3
83	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Moisture Resistance	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 15.2, 15.3, 15.101, 15.102, 15.103) Amd 3
84	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Overload protection of transformers and associated circuits	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 17) Amd 3



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

9 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
85	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Power Input and Current	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 10) Amd 3
86	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Protection against access electric shock	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 8.1) Amd 3
87	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Provision for earthing	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 27)
88	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Radiation, toxicity and similar hazards	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 32) Amd 3
89	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Resistance to heat and fire	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 30.1, 30.2, 30.2.1, 30.2.2, 30.2.3, 30.2.3.1, 30.2.3.2) Amd 3
90	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Resistance to rusting	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 31) Annex BB, Amd 3
91	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Screws and connections	IEC 60335-2-25:2020/ IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 28) Amd 3
92	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Stability and mechanical hazards	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 20, 20.101) Amd 3
93	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Supply connection and external flexible cords	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 25.2, 25.4, 25.7, 25.15, 25.16, 25.17, 25.23, 25.25) Amd 3
94	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Terminals for external conductors	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 26) Amd 3



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

10 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Microwave ovens	Transient over voltages	IEC 60335-2-25:2020 / IS 302-2-25: 2014, IEC 60335-1:2020 / IS 302-1 (Cl. 14) Amd 3
96	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Impact (Shock)	JSS 50101 (Test No.:12)
97	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Impact Test (Shock)	IS 9000 (Part-VII / Sec 1)
98	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Shock Test	MIL-STD-810F Method.: 516.5
99	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Bump Test	JSS 0256-01 (Test No.:21)
100	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Bump Test	JSS 55555 (Test No. 5)
101	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Corrosive Atmosphere (Salt Mist)	JSS 50101 (Test No. 4)
102	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Impact (Bump)	JSS 50101 (Test No.:11)
103	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Salt Fog Test	MIL-STD-810 F: (Method No. 509.4)
104	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Salt Fog Test	MIL-STD-810 G: (Method No. 509.5)
105	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Salt Mist Test	IEC 60571 (Cl.:12.2.11)
106	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Shock and Bump Test	IEC 60255-21-2
107	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Shock or Impact Test	JSS 55555 (Test No. 24)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

11 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
108	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Shock Test	JSS 0256-01 (Test No.:18)
109	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Shock Test	MIL-STD-810G Method.: 516.6
110	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Vibration, Shock and Bump Test	EN 50155
111	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Item	Vibration, Shock and Bump Test	IEC 60571 (Cl.:12.2.12)
112	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Shock and Vibration Test	IEC 61373
113	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Change of Temperature	IS 9000 (Part-14/ Sec 2), IEC 60068-2-14, (Test No.: Na, Nb); MIL 2164, Mil HDBK 344A, MIL HDBK 2164A, QM 333
114	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Cold Test	IS 9000 (Part-II/Sec. 1 to 4), IEC 60068-2-1, IEC 60571, QM 333, MIL-810 F/G, JSS 0256, JSS 50101, JSS 55555
115	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Corrosion (Salt / Salt Fog) (Test no. 9)	JSS 55555
116	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Damp heat (Cyclic) test	IS 9000 (Part V/ Sec 1 & 2), IEC 60068-2-30, IEC 60571, MIL 810 F/G, QM 333, JSS 50101, JSS 0256, JSS 55555
117	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Damp heat (Steady state)	IS 9000 (Part 4), IEC 60068-2-78, IEC 60571, MIL 810 F/G, QM 333, JSS 50101, JSS 0256, JSS 55555
118	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Dry heat test	IS 9000 (Part-III/Sec. 1 to 5), IEC 60068-2-2, IEC 60571, QM 333, MIL-810 F/G, JSS 0256, JSS 50101, JSS 55555
119	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Salt Mist Test	IS:9000 (Part-XI)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

12 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
120	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Salt mist, cyclic (sodium chloride solution)	IEC60068-2-52 Ed. 3
121	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Shock Test	IEC 60068-2-27
122	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Thermal Shock Test	IS 9000 (Part-14/ Sec 2), IEC 60068-2-14 (Test Na), QM 333, MIL 810 F/G, JSS 50101, JSS 0256, JSS 55555
123	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Tropical Exposure Test	JSS 0256, JSS 50101, JSS 55555
124	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Vibration (Sine/ Random) Test	IS 9000 (Part VIII), IEC 60068-2-6, IEC 60068-2-64, IEC 60571, QM 333, IEC 60255-21-1, IEC 61373, MIL 810 F/G, MIL 2164, MIL 167-1A, MIL HDBK 344A, MIL HDBK 2164 A, BS EN 50155, JSS 50101, JSS 0256, JSS 55555
125	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Components	IS 13252 (P-1) (Cl.:1.5)
126	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Direct Plug-in equipment	IS 13252 (P-1) (Cl.:4.3.6)
127	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Handles and Manual controls	IS 13252 (P-1) (4.3.2)
128	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Abnormal Operation and Fault Condition	IS 13252 (P-1) (Cl.: 5.3)
129	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Abnormal Operation and Fault Condition	IEC 60950-1(Cl.: 5.3)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

13 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
130	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Clearances, creepage distances and distances through insulation	IEC 60950-1 (Cl.:2.10.1,2.10.2,2.10.3,2.10.4,2.10.5.9,2.10.5.10,2.10.8,2.10.9)
131	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Clearances, creepage distances and distances through insulation	IS 13252 (P-1) (Cl.:2.10.1, 2.10.2, 2.10.3, 2.10.4, 2.10.5.9, 2.10.5.10, 2.10.8, 2.10.9)
132	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Abrasion resistance test	IEC 60950-1 (Cl.: 2.10.8.4)
133	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Abrasion resistance test	IS 13252 (P-1)(Cl.: 2.10.8.4)
134	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Access to Energized Parts	IS 13252 (P-1) (Cl.: 2.1.1.1)
135	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Cord anchorages and strain relief	IEC 60950-1 (Cl.: 3.2.6)
136	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Direct Plug- in equipment	IEC 60950-1 (Cl.: 4.3.6)
137	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Drop test	IEC 60950-1 (Cl.: 4.2.6)
138	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Handles and manual controls	IEC 60950-1 (Cl.: 4.3.2)
139	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Impact Test	IEC 60950-1 (Cl. 4.2.5)
140	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Impact Test	IS 13252 (P-1) (Cl. 4.2.5)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

14 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
141	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Input Current	IEC 60950-1 (Cl.: 1.6.2)
142	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Input Current	IS 13252 (P-1) (Cl.: 1.6.2)
143	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Materials	IS 13252(P-1) (Cl.:4.7.3)
144	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Oening in Transportable equipments	IEC 60950-1 (Cl.: 4.6.4)
145	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Openings in transportable equipment	IS 13252 (P-1) (Cl.:4.6.4)
146	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Steady force test	IEC 60950-1 (Cl.: 4.2.2, 4.2.3 & 4.2.4)
147	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Stress relief test	IEC 60950-1 (Cl.: 4.2.7)
148	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Stress relief test	IS 13252 (P-1) (Cl.: 4.2.7)
149	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Touch current and protective conductor current	IS 13252 (P-1) (Cl.: 5.1, Annex D)
150	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine / Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Wall or ceiling mounted equipment	IEC 60950-1 (Cl.: 4.2.10)
151	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Reader	Discharge of Capacitors	IS 13252 (P-1) (Cl.:2.1.1.7)3)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

15 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
152	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Access to Energized Parts	IEC 60950(Cl.:2.1.1.1)
153	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Components	IEC 60950-1 (Cl. :1.5)
154	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Connection to cable distribution systems	IEC 60950-1 (Cl. No.:7)
155	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Connection to telecom network	IS 13252 (P-1) (Cl.6.1)
156	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Cord Anchorage and Strain relief	IS 13252 (P-1) (Cl. 3.2.6)
157	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Drop Test	IS 13252 (P-1) (Cl: 4.2.6)
158	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Electric Strength	IEC 60950-1 (Cl.:5.2)
159	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Electric Strength	IS 13252 (P-1) (Cl.: 5.2)
160	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Energy Hazards	IEC 60950-1 (Cl.:2.1.1.5)
161	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Energy Hazards	IS 13252 (P-1) (Cl.:2.1.1.5)
162	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Hazardous Moving Parts	IS 13252 (P-1) (Cl.:4.4.2/4.4.3)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

16 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
163	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Markings and Instructions	IS 13252 (P-1) (Cl.:1.7)3)
164	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Protection of equipment users from overvoltages on telecommunication networks	IEC 60950-1 (Cl. No.:6.2)
165	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Steady Force Test	IS 13252 (P-1) (Cl.:4.2.2, 4.2.3 & 4.2.4)
166	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Termination of conductor	IS 13252 (P-1) (Cl.: 3.1.9)
167	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	TNV circuits	IS 13252 (P-1) (Cl.: 2.3.1, 2.3.2, 2.3.3, 2.3.4):
168	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers	Wall or Ceiling mounted equipment	IS 13252 (P-1) (Cl.:4.2.10)
169	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Connection to cable distribution systems	IS 13252 (Cl.:7)
170	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Connection to telecom network	IEC 60950-1 (Cl.: 6.1)
171	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Discharge of capacitor	IEC 60950-1 (Cl.: 2.1.1.7)
172	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Discharge of Capacitor	IS 13252 (P-1) (Cl:2.1.1.7))
173	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Electric Strength Test	IEC 60950-1 (Cl.: 2.10.8.3)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

17 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
174	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Electric strength Test	IS 13252 (P-1) (Cl.:2.10.8.3)
175	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Energy Hazard- DC Mains Supply	IEC 60950-1 (Cl.: 2.1.1.8)
176	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Energy Hazard- DC mains Supply	IS 13252 (P-1) (Cl.: 2.1.1.8)
177	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Hazardous Moving Parts	IEC 60950-1 (Cl.: 4.4.2,4.4.3)
178	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Humidity conditioning	IEC 60950-1 (Cl.: 2.9.2)
179	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Humidity conditioning	IS 13252 (P-1)(Cl.: 2.9.2)
180	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Limited Current Circuits	IEC 60950-1(Cl.: 2.4)
181	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Limited Current Circuits	IS 13252 (P-1) (Cl.: 2.4)
182	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Limited Power Sources	IEC 60950-1 (Cl.: 2.5)
183	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Limited Power Sources	IS 13252 (P-1) (Cl.: 2.5)
184	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Marking Instruction and Durability	IEC 60950-1 (Cl.: 1.7)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

18 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
185	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Material group & Comparative tracking index	IEC 60950-1 (Cl. 2.10.4.2)
186	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Material group and comparative tracking index	IS 13252 (P-1) (Cl. 2.10.4.2)
187	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Materials	IEC 60950-1 (Cl.: 4.7.3.1)
188	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Protection of equipment users from overvoltages on telecommunication networks	IS 13252 (Part-1) (Cl. No.:6.2)
189	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Protection of the telecommunication wiring system from overheating	IEC 60950-1 (Cl.: 6.3)
190	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Protection of the telecommunication wiring system from overheating	IS 13252 (P-1) (Cl.: 6.3)
191	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Protective Earthing Conductor and Protective Bonding conductor	IEC 60950-1 (Cl. 2.6.3)
192	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Protective earthing conductors and protective bonding conductors	IS 13252 (P-1) (Cl.: 2.6.3)
193	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Resistance to abnormal heat	IEC 60950-1 (Cl.: 4.5.5)
194	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Resistance to abnormal heat	IS 13252 (P-1) (Cl.: 4.5.5)
195	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	SELV Circuits	IEC 60950-1 (Cl.: 2.2)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

19 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

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196	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	SELV Circuits	IS 13252 (P-1) (Cl.: 2.2)
197	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Stability	IEC 60950-1 (Cl. 4.1)
198	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Stability	IS 13252 (P-1) (Cl.: 4.1)
199	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Termination of conductors	IEC 60950-1 (Cl.: 3.1.9)
200	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Thermal requirements	IEC 60950-1 (Cl. 4.5.2 to 4.5.4)
201	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Thermal requirements	IS 13252 (Cl.: 4.5.2 to 4.5.4)
202	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	TNV Circuits	IEC 60950-1 (Cl.: 2.3.1, 2.3.2, 2.3.3, 2.3.4)
203	ELECTRONICS- IT EQUIPMENT	Laptops / VDU / Scanners / Set Top Box / Automatic Data Processing Machine/ Telephone Answering Machines / Mobile Phones / Cash Registers / Printers / Power Adapters / Smart Card Readers / Smart Watch / Passport Readers.	Touch current and protective conductor current	IEC 60950-1 (Cl.: 5.1, Annex D)
204	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Full load	IEC 62040-3 (Cl.: 6.2.2.5)
205	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	AC input failure	IEC 62040-3 (Cl.: 6.2.2.7)
206	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	AC input failure	IS 16242 (Part 3) (Cl.: 6.2.2.7)
207	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	AC input return	IEC 62040-3 (Cl.: 6.2.2.8)
208	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	AC input return	IS 16242 (Part 3) (Cl.: 6.2.2.8)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

20 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
209	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Acoustic Noise	IEC 62040-3 (Cl.: 6.5.5)
210	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Acoustic Noise	IS 16242 (Part 3) (Cl.: 6.5.5)
211	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Cable and interconnection check	IS 16242 (Part 3) (Cl.: 6.2.2.2)
212	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Cable and interconnection check	IEC 62040-3 (Cl.: 6.2.2.2)
213	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	DC Component	IS 16242 (Part 3) (Cl.: 6.4.2.6)
214	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	DC Component	IEC 62040-3 (Cl.: 6.4.2.6)
215	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Normal To Bypass Mode – Overload	IS 16242 (Part 3) (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.3)
216	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance 1) Normal to Stored energy Mode ; 2) Stored energy to Normal Mode; 3) Load Step - Normal Mode; 4) Load Step - Stored energy Mode 5) Test method- Non-linear load	IS 16242 (Part 3) (Main Cl.: 6.4.3.3 ; Specific Cl.: 6.4.3.3.1, Cl.: 6.4.3.3.2, Cl.: 6.4.3.3.3, Cl.: 6.4.3.3.4 , Cl.:6.4.3.5
217	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance 1) Normal to Stored energy Mode; 2) Stored energy to Normal Mode; 3) Load Setup - Normal Mode; 4) Load Setup - Stored energy Mode	IEC 62040-3 (Main Cl.: 6.4.3.3 ; Specific Cl.: 6.4.3.3.1, Cl.: 6.4.3.3.2, Cl.: 6.4.3.3.3, Cl.: 6.4.3.3.4, Cl.:6.4.3.5)
218	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Normal To Bypass Mode – Overload	IEC 62040-3 (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.3)
219	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Normal To Stored Energy Mode	IS 16242 (Part 3) (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.1)
220	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Stored Energy To Normal Mode	IEC 62040-3 (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.2)
221	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Stored Energy To Normal Mode	IS 16242 (Part 3) (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.2)
222	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Dynamic Performance Normal To Stored Energy Mode	IEC 62040-3 (Main Cl.: 6.4.2.11 ; Specific Cl.: 6.4.2.11.1)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

21 of 24

Validity

27/02/2024 to 26/02/2026

Last Amended on

02/05/2024

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223	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Efficiency	IEC 62040-3 (Cl.: 6.4.1.6)
224	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Efficiency	IS 16242 (Part 3) (Cl.: 6.4.1.6)
225	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Fault Clearing Capability - Normal Mode	IEC 62040-3 (Cl. 6.4.2.10.3)
226	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Fault Clearing Capability - Normal Mode	IS 16242 (Part 3) (Cl. 6.4.2.10.3)
227	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Fault Clearing Capability - Stored Energy Mode	IEC 62040-3 (Cl.: 6.4.2.10.4)
228	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Fault Clearing Capability - Stored Energy Mode	IS 16242 (Part 3) (Cl.: 6.4.2.10.4)
229	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Free Fall test	IEC 62040-3 (Cl. 6.5.2.2)
230	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Free Fall test	IS 16242 (Part 3) (Cl. 6.5.2.2)
231	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Full load	IS 16242 (Part 3) (Cl.: 6.2.2.5)
232	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Harmonic distortion of input current	IEC 62040-3 (Cl.: 6.4.1.4)
233	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Harmonic distortion of input current	IS 16242 (Part 3) (Cl.: 6.4.1.4)
234	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Input frequency tolerance	IS 16242 (Part 3) (Cl.: 6.4.1.2)
235	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Input frequency tolerance	IEC 62040-3 (Cl.: 6.4.1.2)
236	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Inrush current	IEC 62040-3 (Cl.: 6.4.1.3)
237	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Inrush current	IS 16242 (Part 3) (Cl.: 6.4.1.3)
238	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Light load and functional test	IEC 62040-3 (Cl.: 6.2.2.3)
239	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Light load and functional test	IS 16242 (Part 3) (Cl.: 6.2.2.3)
240	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Marking and Instructions	IEC 62040-3 (Cl.: 5.1.2)
241	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Marking and Instructions	IS 16242 (Part 3) (Cl.: 5.1.2)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13132

Page No

22 of 24

Validity

27/02/2024 to 26/02/2026

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
242	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	No load	IEC 62040-3 (Cl.: 6.2.2.4)
243	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	No load	IS 16242 (Part 3) (Cl.: 6.2.2.4)
244	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Normal Mode - 1) No Load , 2) Full load	IS 16242 (Part 3) (Main Cl.: 6.4.2 , Specific Cl.: 6.4.2.1, Cl.: 6.4.2.2)
245	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Normal Mode - 1) No Load, 2) Full load	IEC 62040-3 (Main Cl.: 6.4.2, Specific Cl.: 6.4.2.1, Cl.: 6.4.2.2)
246	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Operation	IEC 62040-3 (Cl.: 6.5.4)
247	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Operation	IS 16242 (Part 3) (Cl.: 6.5.4)
248	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output- Linear Load Normal Mode - No load	IS 16242 (Part 3) (Cl.: 6.4.2, Cl.: 6.4.2.1)
249	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output- Linear Load Normal Mode - No load	IEC 62040-3 (Cl.: 6.4.2, Cl.: 6.4.2.1)
250	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output Non Linear Load - 1) Normal Mode - Full load; 2) Stored Energy Mode - Full load	IEC 62040-3 (Main Cl.: 6.4.3, Specific Cl.: 6.4.3.1, Cl.: 6.4.3.2)
251	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output Non Linear Load- 1) Normal Mode - Full load; 2) Stored Energy Mode - Full load	IS 16242 (Part 3) (Main Cl.: 6.4.3, Specific Cl.: 6.4.3.1, Cl.: 6.4.3.2)
252	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output Overvoltage test	IEC 62040-3 (Cl.: 6.4.2.8)
253	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Output Overvoltage test	IS 16242 (Part 3) (Cl.: 6.4.2.8)
254	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Overload and Fault Clearing Capability Overload - Normal Mode	IEC 62040-3 (Cl.: 6.4.2.10, Cl.: 6.4.2.10.1)
255	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Overload and Fault Clearing Capability Overload - Normal Mode	IS 16242 (Part 3) (Cl.: 6.4.2.10, Cl.: 6.4.2.10.1)
256	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Overload and Fault Clearing Capability Overload - Storage Energy Mode	IEC 62040-3 (Cl. 6.4.2.10.2)
257	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Overload and Fault Clearing Capability Overload - Storage Energy Mode	IS 16242 (Part 3) (Cl. 6.4.2.10.2)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONIC SAFETY TEST LABORATORY, EMC DIVISION, SAMEER-CENTRE FOR MICROWAVE RESEARCH, SECTOR-7, RAIN TREE MARG, CBD BELAPUR, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

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Page No

23 of 24

Validity

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258	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Power factor	IEC 62040-3 (Cl.: 6.4.1.5)
259	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Power factor	IS 16242 (Part 3) (Cl.: 6.4.1.5)
260	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Shock test	IEC 62040-3 (Cl.: 6.5.2.1)
261	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Shock test	IS 16242 (Part 3) (Cl.: 6.5.2.1)
262	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Steady-state input voltage tolerance	IEC 62040-3 (Cl.: 6.4.1.1)
263	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Steady-state input voltage tolerance	IS 16242 (Part 3) (Cl.: 6.4.1.1)
264	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Step Load - Normal Mode	IEC 62040-3 (Cl.: 6.4.2.11.4)
265	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Step Load - Normal Mode	IS 16242 (Part 3) (Cl.: 6.4.2.11.4)
266	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Step Load - Stored Energy Mode	IEC 62040-3 (Cl.: 6.4.2.11.5)
267	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Step Load - Stored Energy Mode	IS 16242 (Part 3) (Cl.: 6.4.2.11.5)
268	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage	IEC 62040-3 (Cl. 6.5.3)
269	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage	IS 16242 (Part 3) (Cl. 6.5.3)
270	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage Energy Mode - No load	IEC 62040-3 (Cl.: 6.4.2.3)
271	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage Energy Mode - Full load	IEC 62040-3 (Cl.: 6.4.2.4)
272	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage Energy Mode - Full load	IS 16242 (Part 3) (Cl.: 6.4.2.4)
273	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Storage Energy Mode - No load	IS 16242 (Part 3) (Cl.: 6.4.2.3)
274	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Stored and restored energy, 1) Stored energy time, 2) Restored energy time, 3) Battery Ripple current, 4) Restart test	IS 16242 (Part 3) (Main Cl.: 6.4.4, Specific Cl.: 6.4.4.1, Cl.: 6.4.4.2, Cl.: 6.4.4.3, Cl.: 6.4.4.4)



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Page No

24 of 24

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275	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Stored and restored energy, 1) Stored energy time, 2) Restored energy time, 3) Battery Ripple current, 4) Restart test	IEC 62040-3 (Main Cl.: 6.4.4, Specific Cl.: 6.4.4.1, Cl.: 6.4.4.2, Cl.: 6.4.4.3, Cl.: 6.4.4.4)
276	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Synchronization	IEC 62040-3 (Cl.: 6.2.2.6)
277	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Synchronization	IS 16242 (Part 3) (Cl.: 6.2.2.6)
278	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Transfer To bypass	IEC 62040-3 (Cl.: 6.2.2.9)
279	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) upto 10kVA	Transfer To bypass	IS 16242 (Part 3) (Cl.: 6.2.2.9)