National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5365	**Page No**	1 of 71
Validity	27/03/2023 to 26/03/2025	**Last Amended on**	-

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	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products	Electric shock	Cl. no. 8.2 of IEC 60065
2	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products	Electrical Connections and Mechanical Fixings	Cl. No. 17 of IS 616
3	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Accessible part	Cl.no.7.1.2, 7.1.3, 7.1.4, 7.1.5, 7.1.6 of IEC 60065

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Accessible part	Cl.no.7.1.2, 7.1.3, 7.1.4, 7.1.5, 7.1.6 of IS 616
5	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Clearances and creepage distances	Cl. No. 13 of IEC 60065 (Except 13.3.4 b)
6	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Clearances and creepage distances	Cl. No. 13 of IS 616 (Except 13.3.4 b)
7	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Conductive parts	Cl. no.8.1 of IEC 60065

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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
8	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Conductive parts	Cl. no.8.1 of IS 616
9	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Constructional requirements with regard to the protection against electric shock	Cl. no.8 of IEC 60065 (Except 8.17)
10	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Constructional requirements with regard to the protection against electric shock	Cl. no.8 of IS 616 (Except 8.17)
11	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electric shock hazard under normal operating conditions	Cl.No.9 of IEC 60065

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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
12	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electric shock hazard under normal operating conditions	Cl.No.9 of IS 616
13	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electric shock hazard	Cl. no.11.1 of IEC 60065
14	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electric shock hazard	Cl. no.11.1 of IS 616
15	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electric shock	Cl. no. 8.2 of IS 616

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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
16	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Electrical Connections And Mechanical Fixings	Cl. No. 17 of IEC 60065
17	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Fault Condition	Cl.No.11 of IEC 60065
18	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Fault Condition	Cl.No.11 of IS 616
19	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	General Requirements	7.1, 7.1.1 of IEC 60065

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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
20	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	General Requirements	Cl. No. 7.1, 7.1.1 of IS 616
21	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Heat resistance of insulating material	Cl. No. 7.2 of IEC 60065
22	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Heat resistance of insulating material	Cl. No. 7.2 of IS 616
23	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Identification and supply ratings	Cl.No. 5.1 of IEC 60065

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Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
24	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Identification and supply ratings	Cl.No. 5.1 of IS 616
25	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Insulation Requirement	Cl. No. 10 of IEC 60065 (Except 10.2)
26	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Insulation Requirement	Cl. No. 10 of IS 616 (Except 10.2)
27	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Marking and instructions	Cl. No. 5 of IEC 60065

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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
28	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Marking and instructions	Cl. No. 5 of IS 616
29	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Mechanical strength	Cl. no. 12 of IEC 60065 (Except 12.1.2, 12.1.3, 12.7.3.6)
30	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Mechanical strength	Cl. no. 12 of IS 616 (Except 12.1.2, 12.1.3, 12.7.3.6)
31	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Provisions for protective earthing	Cl. No. 15.2 of IEC 60065

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32	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Provisions for protective earthing	Cl. No. 15.2 of IS 616
33	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Removal of protective covers	Cl. No. 9.2 of IEC 60065
34	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Removal of protective covers	Cl. No. 9.2 of IS 616
35	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Resistance to fire	Cl. No. 20 of IEC 60065 (Except Needle flame test)

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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
36	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Resistance to fire	Cl. No.20 of IS 616 (Except Needle flame test)
37	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Shafts of operating knobs, handles, leversand the like	Cl. No. 9.1.2 of IEC 60065
38	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Shafts of operating knobs, handles, leversand the like	Cl. No. 9.1.2 of IS 616
39	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Stability and mechanical hazards	Cl. No. 19 of IEC 60065

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
40	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Stability and mechanical hazards	Cl. No. 19 of IS 616
41	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	TERMINALS for external flexible cords and for permanent connection to the MAINS supply	Cl. No 15.3 of IS 616
42	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	TERMINALS for external flexible cords and for permanent connection to the MAINS supply	Cl. No. 15.3 of IEC 60065
43	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Terminals	Cl. No. 15 of IEC 60065

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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
44	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Terminals	Cl. No. 15 of IS 616
45	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Testing on the outside Determination of HAZARDOUS LIVE parts Determination of ACCESSIBLE parts Openings of the enclosure	Cl. No.9.1.1, 9.1.1.1, 9.1.1.2, 9.1.1.3 of IS 616
46	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Testing on the outside Determination of HAZARDOUS LIVE parts Determination of ACCESSIBLE parts Openings of the enclosure	Cl. No.9.1.1, 9.1.1.1, 9.1.1.2, 9.1.1.3 of IEC 60065
47	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Withdrawal of MAINS plug	Cl. No. 9.1.6 of IEC 60065

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48	ELECTRONICS- AUDIO EQUIPMENT	Amplifiers,Microphones/Electronic Games (Video); Electronic Musical Systems With Input Power 200w And Above; Optical Disc Players With Built In Amplifiers Of Input Power 200w And Above; Plasma/LCD/LED Televisions; And Above; Power Adaptors For Audio, Video & Similar Electronic Apparatus; Plasma/ LCD/LED Television; Wireless Headphone and Earphone; Electronic Musical System withinput power below 200 Watts; Television other than Plasma/ LCD/LED TVs; Wireless Microphone; Digital Camera; Video Camera; Webcam (Finished Product); Smart Speakers (with and without Display); Bluetooth Speakers; Audio, Video and Similar Electronic Products.	Withdrawal of MAINS plug	Cl. No. 9.1.6 of IS 616
49	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Burst Immunity Test	IEC 61000-4-4
50	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Conducted Emission Test	CISPR 11/ EN 55011
51	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Electrical Fast Transient (EFT)	IEC 61000-4-4
52	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Electrostatic Discharge Immunity Test	IEC 61000-4-2
53	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Harmonic Current Emission Test	IEC 61000-3-2
54	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	High Energy / Telecom Surge Immunity Test	IEC 61000-4-5
55	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Power Frequency Magnetic Field Immunity Test	IEC 61000-4-8
56	ELECTRONICS- EMC TEST FACILITY	Electrical & Electronic equipment	Voltage dips, short interruptions and voltage variations immunity tests	IEC 61000-4-11
57	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Burst Immunity Test	IEC/EN 60601-1-2
58	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Burst Immunity Test	IS 13450 : Part 1 : SEC 2
59	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Conducted Emission Test	IEC/EN 60601-1-2
60	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Conducted Emission Test	IS 13450 : Part 1 : SEC 2
61	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Electrical Fast Transient (EFT)	IEC/EN 60601-1-2
62	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Electrical Fast Transient (EFT)	IS 13450 : Part 1 : SEC 2

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
63	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Electrostatic Discharge Immunity Test	IEC/EN 60601-1-2
64	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Electrostatic Discharge Immunity Test	IS 13450 : Part 1 : SEC 2
65	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Harmonic Current Emission Test	IEC/EN 60601-1-2
66	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Harmonic Current Emission Test	IS 13450 : Part 1 : SEC 2
67	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	High Energy / Telecom Surge Immunity Test	IEC/EN 60601-1-2
68	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	High Energy / Telecom Surge Immunity Test	IS 13450 : Part 1 : SEC 2
69	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Power Frequency Magnetic Field Immunity Test	IEC/EN 60601-1-2
70	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Power Frequency Magnetic Field Immunity Test	IS 13450 : Part 1 : SEC 2
71	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Voltage dips, short interruptions and voltage variations immunity tests	IEC/EN 60601-1-2
72	ELECTRONICS- EMC TEST FACILITY	Medical electrical equipment	Voltage dips, short interruptions and voltage variations immunity tests	IS 13450 : Part 1 : SEC 2

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
73	ELECTRONICS- IT EQUIPMENT	"CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers "	Audio amplifiers in information technology equipment	Cl. No.2.1.1.9; IS 13252 (Part 1) A1+A2 / IEC 60950-1+A1+A2
74	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Classification of power sources (PS) and potential ignition sources (PIS)	Cl. no. 6.2 of IEC 62368-1

SCOPE OF ACCREDITATION

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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
75	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Clearances, creepage distances and distances through insulation	Cl. No. 2.10, 2.10.1, 2.10.2, 2.10.3, 2.10.4,2.10.5, 2.10.11, Annex F, Annex G, Annex Z, Annex AA ; IS 13252 (Part 1) A1+A2 / IEC 60950-1 A1+A2 (Except2.10.3.9b, 2.10.8 and 500W flame test)
76	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Components as safeguards	Cl. no. 5.5 of IEC 62368-1 (Except Annexure G)

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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
77	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Connection to cable distribution systems	Cl. No. 7, Annex N; IS 13252 (Part 1) A1+A2 / IEC 60950- 1, A1+A2 (Except Surge test)
78	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Connection to telecommunication networks	"Cl. No. 6, Annex S; IS 13252 (Part 1) A1+A2 / IEC 60950-1+A1+A2

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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
79	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Design & construction	Cl. No. 4.3 (Except 4.3.10, 4.3.11, 4.3.12,4.3.13); IS 13252 (Part 1) A1+A2/ IEC 60950- 1, A1+A2
80	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Electrical insulation	Cl. No 2.9; IS 13252 (Part 1) A1+A2 / IEC 60950- 1+A1+A2

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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
81	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Electrical requirements and simulated abnormal conditions	Cl. No. 5 (Except 5.3.5), Annex B, Annex C, Annex D, Annex W; IS 13252 (Part 1) A1+A2 / IEC 60950- 1 A1+A2
82	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Electrically-caused fire	Cl. no. 6 of IEC 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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
83	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Energy hazards	Cl.No. 2.1.1.5; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
84	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Injury caused by hazardous substances	Cl. no. 7 of IEC 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
85	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Input current	Cl. No 1.6.2; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
86	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Insulation materials and requirements	Cl. no. 5.4 of IEC 62368-1 (Except Surge Test)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
87	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Limited current circuits	Cl. No. 2.4; IS 13252 (Part 1) A1+A2/ IEC 60950-1, A1+A2
88	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Limited power sources	Cl. No. 2.5; IS 13252 (Part 1) A1+A2 / IEC 60950-1+A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
89	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Markings and instructions	Cl. No. 1.7, IS 13252 (Part 1) A1+A2 / IEC 60950- 1, A1+A2
90	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Mechanical strength	Cl. No.4.2 (Except. 4.2.8, 4.2.9); IS 13252 (Part 1) A1+A2/ IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
91	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Mechanically-caused injury	Cl. no. 8 (Except 8.10,8.11, 8.12 and Annexure V Tests on High Pressure lamps) of IEC 62368-1
92	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Openings in enclosures	Cl. No.4.6 (Except 4.6.2, 4.6.5); IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
93	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Overcurrent and earth fault protection in primary circuits	Cl. No.2.7; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
94	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Power interface AC power distribution systems	Cl. No. 1.6, 1.6.1, Annex V ; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Protection against electrical energy sources	Cl. no. 5.3 of IEC 62368-1
96	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Protection against hazardous moving parts	Cl. No. 4.4; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
97	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Protection from electric shock and energy hazards	Cl. No.2.1, Annex EE; IS 13252 (Part 1) A1+A2/ IEC 60950-1, A1+A2
98	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Protective conductor	Cl. no. 5.6 of IEC 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
99	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Provision for earthing and bonding	Cl. No. 2.6, Annex J; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
100	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Requirements for the mounting means of rack-mounted equipment	Annex DD; IS 13252 (Part 1) A1+A2/IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
101	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Resistance of earthing conductors and their terminations	Cl. No. 2.6.3.4; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
102	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Resistance to abnormal heat	Cl. No. 4.5.5; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
103	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Safeguards against fire due to the connection of additional equipment	Cl. no. 6.6 of IEC 62368-1
104	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Safeguards against fire under normal operating conditions and abnormal operating conditions	Cl. no. 6.3 of IEC 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
105	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Safeguards against fire under single fault conditions	Cl. no. 6.4 of IEC 62368-1
106	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Safety Interlocks	Cl. No. 2.8, 2.8.1, 2.8.2, 2.8.3, 2.8.4,2.8.6, 2.8.7.1, 2.8.7.4, 2.8.8 ; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
107	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	SELV circuits	Cl. No.2.2; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
108	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Size of protective earthing conductors	Cl. No. 2.6.3.2; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2:

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
109	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Stability	Cl. No.4.1; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
110	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Terminals	Cl. No. 2.6.4, IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
111	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Thermal burn injury	Cl. no. 9 (Expect 9.6) of IEC 62368-1
112	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Thermal Requirements	Cl. No.4.5, Annex L; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
113	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	TNV circuits	"Cl. No.2.3, Annex M; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
114	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Voltage limit of handheld equipment Neutral conductor	Cl. No. 1.6.3, 1.6.4 IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
115	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Wiring, connections and supply	Cl. No. 3, Annex E, Annex X ; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2
116	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Components	Cl. No.1.5, 1.5.1, 1.5.2, 1.5.3, 1.5.4, 1.5.5, 1.5.8, Annex K ; IS 13252 (Part 1) A1+A2 / IEC 60950- 1+A1+A2

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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
117	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	General requirements	Cl. no. 4 of IEC 62368-1 (Except 4.8.4.6)
118	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Short-circuit backup protection	Cl. No.2.7.3, 2.7.4; IS 13252 (Part 1) A1+A2 / IEC 60950-1, A1+A2

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
119	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Discharge of capacitors in equipment	Cl. No.2.1.1.7; IS 13252 (Part 1) A1+A2/ IEC 60950-1, A1+A2
120	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Internal and external wiring	Cl. no. 6.5 of IEC 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
121	ELECTRONICS- IT EQUIPMENT	CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board / GPU/USB devices/Wi-Fi Hub/ PCI extensioncards/Keyboards/Monitors / VDUs/Modem/Network devices/Audio/Video, Information and communication technology equipment/Automatic Data Processing Machine, Plotters, Scanners, Set Top Box, Telephone Answering Machines, Visual Display Units, Videos Monitors of Screen, Wireless Keyboards, Cash Registers, Copying Machines/Duplicators, Passport Reader, Point of Sale Terminals, Mail Processing Machines/Postage Machines/Franking Machines, Power Banks for Use In Portable Applications, Smart Card Reader, Mobile Phones, Power Adaptors for IT Equipments, Visual Display Units, Video Monitors Of Screen, CTV Cameras/CCTV Recorders, USB Driven Barcode Readers, Barcode Scanners, Iris Scanners, Optical Fingerprint Scanners, Smart Watches, Automatic Teller Cash Dispensing Machines, USB Type External Hard Disk Drive, USB Type External Solid- State Storage Devices, Standalone Switch Mode Power Supplies (SMPS) With Output Voltage 48V (Max), Digital Camera & Similar IT products/Mobile Phones/Personal computers / Laptop / Note Book/tablets/Printers / scanner/Copier/Servers	Classification and limits of electrical energy sources	Cl. no. 5.2 of IEC 62368-1
122	ELECTRONICS- IT EQUIPMENT	Mobile Phones	Marking	Cl. No. 6 of IS 16333 (Part 3), Cl. No. 5.1 of IS 16333 (Part 1)
123	ELECTRONICS- IT EQUIPMENT	Mobile Phones	Tests (Verification of character by inputting the character from its keypad)	Cl. No. 5 of IS 16333 (Part 3), IS 16350
124	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-2-4
125	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Drop test	Cl. No 15.3.4, IEC/EN 60601-2-4
126	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Impact test	Cl. No.15.3.3, IEC/EN 60601-2-4
127	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/EN 60601-2-4
128	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/EN 60601-2-4
129	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Mould stress relief test	IEC/EN 60601-2-4
130	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Power Input	Cl .no. 4.11, IEC/EN 60601-2-4

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131	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-2-4
132	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Push Test	Cl. No. 15.3.2, IEC/EN 60601-2-4
133	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IEC/EN 60601-2-4
134	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Applied part sand accessible parts	Cl. No. 5.9, IEC/ EN 60601-2-27
135	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Creepage distances and airc learances	Cl.no. 8.9, IEC/ EN 60601-2-27
136	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Dielectric strength	Cl. No 8.8.3, IEC/ EN 60601-2-27
137	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Impact test	Cl. No.15.3.3, IEC/ EN 60601-2-27
138	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/ EN 60601-2-27
139	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/ EN 60601-2-27
140	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/ EN 60601-2-27
141	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Mechanical strength and resistance to heat	Cl. 8.8.4.1, IEC/ EN 60601-2-27
142	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Mould stress relief test	Cl. No. 15.3.6, IEC/ EN 60601-2-27
143	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Power Input	Cl .no. 4.11, IEC/ EN 60601-2-27
144	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Protection against excessive temperatures and other hazards	Cl. 11.1, IEC/ EN 60601-2-27
145	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/ EN 60601-2-27
146	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Push Test	Cl.no. 15.3.2, IEC/ EN 60601-2-27
147	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-2-2
148	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Creepage distances and air clearances	Cl. No.8.9, IEC/EN 60601-2-2

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149	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Drop test	Cl. No 15.3.4, IEC/EN 60601-2-2
150	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Impact test	Cl. No.15.3.3, IEC/EN 60601-2-2
151	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/EN 60601-2-2
152	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Intended to be connected to a power source by a plug	IEC/EN 60601-2-2
153	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IEC/EN 60601-2-2
154	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Mould stress relieftest	Cl. 15.3.6, IEC/EN 60601-2-2
155	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Power Input	Cl .no. 4.11, IEC/EN 60601-2-2
156	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-2-2
157	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipmentand high frequency surgical accessories	Push Test	Cl.no. 15.3.2, IEC/EN 60601-2-2
158	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-2-19
159	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Creepage distances and air clearances	Cl. No.8.9, IEC/EN 60601-2-19
160	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Dielectric strength	Cl. No 8.8.3, IEC/EN 60601-2-19
161	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Drop test	Cl. No 15.3.4, IEC/EN 60601-2-19
162	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Impact test	Cl. No.15.3.3, IEC/EN 60601-2-19
163	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/EN 60601-2-19
164	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/EN 60601-2-19
165	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/EN 60601-2-19
166	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Mechanical strength and resistance to heat	Cl. 8.8.4.1, IEC/EN 60601-2-19

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167	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Mould stress relief test	Cl. No. 15.3.6, IEC/EN 60601-2-19
168	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Power Input	Cl .no. 4.11, IEC/EN 60601-2-19
169	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-2-19
170	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Push Test	Cl.no. 15.3.2, IEC/EN 60601-2-19
171	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Applied parts and accessible parts	Cl. No. 5.9, IEC/ EN 60601-2-50
172	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Creepage distances and air clearances	Cl. No.8.9, IEC/ EN 60601-2-50
173	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Dielectric strength	Cl. No 8.8.3, IEC/ EN 60601-2-50
174	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Drop test	Cl. No 15.3.4, IEC/ EN 60601-2-50
175	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Impact test	Cl. No.15.3.3, IEC/ EN 60601-2-50
176	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/ EN 60601-2-50
177	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/ EN 60601-2-50
178	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/ EN 60601-2-50
179	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mechanical strength and resistance to heat	Cl. 8.8.4.1, IEC/ EN 60601-2-50
180	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mould stress relief test	Cl. No. 15.3.6, IEC/ EN 60601-2-50
181	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Power Input	Cl .no. 4.11, IEC/ EN 60601-2-50
182	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Protective earthing, functional earthing and potential equalization of ME EQUIPMENT	Cl. No 8.6, IEC/ EN 60601-2-50
183	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Push Test	Cl.no. 15.3.2, IEC/ EN 60601-2-50
184	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-2-21

SCOPE OF ACCREDITATION

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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
185	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Creepage distances and airclearances	Cl. No 8.9, IEC/EN 60601-2-21
186	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Dielectric strength	Cl.no. 8.8.3, IEC/EN 60601-2-21
187	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Drop test	Cl. No 15.3.4, IEC/EN 60601-2-21
188	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Impact test	Cl. No.15.3.3, IEC/EN 60601-2-21
189	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/EN 60601-2-21
190	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/EN 60601-2-21
191	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/EN 60601-2-21
192	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Mechanical strength and resistance to heat	IEC/EN 60601-2-21
193	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Mould stress relief test	Cl. No. 15.3.6, IEC/EN 60601-2-21
194	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Power Input	Cl .no. 4.11, IEC/EN 60601-2-21
195	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-2-21
196	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Push Test	Cl.no. 15.3.2, IEC/EN 60601-2-21
197	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-2-20
198	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Creepage distances and airclearances	Cl. No 8.9, IEC/EN 60601-2-20
199	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Dielectric strength	Cl.no. 8.8.3, IEC/EN 60601-2-20
200	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Drop test	Cl. No 15.3.4, IEC/EN 60601-2-20
201	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Impact test Cl. No.15.3.3	Cl. No.15.3.3, IEC/EN 60601-2-20
202	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/EN 60601-2-20

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203	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/EN 60601-2
204	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Mechanical strength and resistance to heat	Cl. 8.8.4.1, IEC/EN 60601-2-20
205	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Mould stress relief test	IEC/EN 60601-2-20
206	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Power Input	Cl .no. 4.11, IEC/EN 60601-2-20
207	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant transport incubators	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-2-20
208	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Applied partsand accessible parts	Cl. No. 5.9, IEC/ EN 60601-2-52
209	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Creepage distances and air clearances	Cl. No.8.9, IEC/ EN 60601-2-52
210	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Dielectric strength	Cl. No 8.8.3, IEC/ EN 60601-2-52
211	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/ EN 60601-2-52
212	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/ EN 60601-2-52
213	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Mechanical strength and resistance to heat	Cl. 8.8.4.1, IEC/ EN 60601-2-52
214	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Power Input	IEC/ EN 60601-2-52
215	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/ EN 60601-2-52
216	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment	Alarm Condition priority	IEC/EN 60601-1-8

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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
217	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Accuracy of controls and instruments and protection against hazardous outputs	Cl No. 12, IEC 60601
218	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Accuracy of controls and instruments and protection against hazardous outputs	Cl No. 12, IEC/EN 60601-1

SCOPE OF ACCREDITATION

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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
219	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Accuracy of controls and instruments and protection against hazardous outputs	Cl No. 12, IS 13450 (Part 1)
220	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Applied parts and accessible parts	Cl. No. 5.9, IEC/EN 60601-1

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Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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221	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Applied parts and accessible parts	Cl. No. 5.9, IS 13450 (Part 1)
222	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Applied parts and accessible parts	Cl. No. 5.9, IEC 60601-1

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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
223	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Creepage distances and air clearances	Cl. No.8.9, IEC/EN 60601-1
224	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Creepage distances and air clearances	Cl. No.8.9, IEC 60601-1

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225	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Creepage distances and air clearances	Cl. No.8.9, IS 13450 (Part 1)
226	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Dielectric strength	Cl. No 8.8.3, IS 13450 (Part 1)

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Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
227	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Dielectric strength	Cl. No 8.8.3, IEC 60601-1
228	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Dielectric strength	Cl. No 8.8.3, IEC/EN 60601-1

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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
229	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Drop test	Cl. No 15.3.4, IEC 60601-1
230	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Drop test	Cl. No 15.3.4, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
231	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Drop test	Cl. No 15.3.4, IEC/EN 60601-1
232	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Humidity Preconditioning Treatment	Cl. No 5.7, IEC/EN 60601-1

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Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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233	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Humidity Preconditioning Treatment	Cl. No 5.7, IEC 60601-1
234	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Humidity Preconditioning Treatment	Cl. No 5.7, IS 13450 (Part 1)

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235	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Identification, marking and documents	Cl. No. 7, IEC/EN 60601-1
236	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Identification, marking and documents	Cl. No. 7, IS 13450 (Part 1)

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Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
237	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Identification, marking and documents	Cl. No. 7, IEC 60601-1
238	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Impact test	Cl. No.15.3.3, IEC 60601-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
239	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Impact test	Cl. No.15.3.3, IEC/EN 60601-1
240	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Impact test	Cl. No.15.3.3, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
241	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Indicator lights and controls	IEC / EN 60601-1-8
242	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC 60601-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
243	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Instability from unwanted lateral movement	Cl. No. 9.4.2, IEC/EN 60601-1
244	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Instability from unwanted lateral movement	Cl. No. 9.4.2, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
245	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC 60601-1
246	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
247	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/EN 60601-1
248	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/EN 60601-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
249	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC 60601-1
250	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
251	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IEC 60601-1
252	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IS 13450 (Part 1)

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253	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IEC/EN 60601-1
254	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mould stress relief test	Cl. No. 15.3.6, IEC 60601-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
255	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mould stress relief test	Cl. No. 15.3.6, IEC/EN 60601-1
256	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Mould stress relief test	Cl. No. 15.3.6, IS 13450 (Part 1)

SCOPE OF ACCREDITATION

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257	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Power Input	Cl .no. 4.11, IEC 60601-1
258	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Power Input	Cl .no. 4.11, IEC/EN 60601-1

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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
259	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Power Input	Cl .no. 4.11, IS 13450 (Part 1)
260	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protection against excessive temperatures and other hazards	Cl. 11.1, IEC 60601-1

SCOPE OF ACCREDITATION

Laboratory Name :	ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
261	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protection against excessive temperatures and other hazards	Cl. 11.1, IEC/EN 60601-1
262	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protection against excessive temperatures and other hazards	Cl. 11.1, IS 13450 (Part 1)

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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
263	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC 60601-1
264	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IEC/EN 60601-1

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265	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Protective earthing, functional earthing and potential equalization	Cl. No. 8.6.4, IS 13450 (Part 1)
266	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Push Test	Cl.no. 15.3.2, IEC/EN 60601-1

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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
267	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Push Test	Cl.no. 15.3.2, IEC 60601-1
268	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical electrical equipment (ACT Machine, Audiometer, Auto Refractometer, Blood Fluid Warmer, BP Apparatus, Capnography, CO2 Monitor, Coagulation Analyzer, Cold light source, Defibrillator, Diagnostic Muscular Simulator, ECG Monitor, Echo Cardiograph, EEG Machine, Electro Cardio Graph Recorder, Electro Myography, Electronic Traction, Endoscopy, ETO Sterilizer, Field Analyzer, Fetal Monitor, Glucometer, HF Surgical Diathermy, Hypothermia Appliances, Incubator (Stationary and Portable), Infusion Pumps, Intelligent Tourniquet, Keratometer, Multiparameter Monitor, Muscles Stimulator (For Diagnostic and Therapy), Nebulizer, Noninvasive Blood Pressure, Oxygen Concentration Monitor, Patient Monitor, Perfusion Pump, Pertdish Warmer, Phototherapy Unit, Pneumatic Drill, Radiant Heat Warmer, Respirators (Not Manual), Retinal Camera, Shortwave Diathermy, Slit Lamp with Ophthalmoscope, Spirometry Devices, Surgical Diathermy, Syringe Pump, Test Tube Warmer, Tread Mill, Trivector Dry Bath, Urine analyzer, Ventilator (Adult & Infant), Water Bath, Wax Bath, Others)	Push Test	Cl.no. 15.3.2, IS 13450 (Part 1)
269	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Applied parts and accessible parts	Cl. No. 5.9, IEC/ EN 60601-2-41
270	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Creepage distances and air clearances	Cl. No.8.9, IEC/ EN 60601-2-41
271	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Dielectric strength	Cl.no. 8.8.3, IEC/ EN 60601-2-41

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ASTUTE LABS PVT. LTD, SR. NO. 82/1, BAJIRAO DHAWADE PATIL INDUSTRIAL ESTATE, NDA ROAD, SHIVANE, PUNE, MAHARASHTRA, INDIA

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272	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Intended to be connected to a power source by a plug	Cl. No. 8.4.3, IEC/ EN 60601-2-41
273	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Leakage currents and patient auxiliary Currents	Cl.no 8.7, IEC/ EN 60601-2-41
274	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Mechanical strength and resistanceto heat	Cl. No. 8.8.4.1, IEC/ EN 60601-2-41
275	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical luminaires and luminaires for diagnosis	Power Input	Cl .no. 4.11, IEC/ EN 60601-2-41