



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 1 / 41

Validity 19/09/2019 to 18/09/2021 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	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Cold Impact	IS 10810 (Part - 21): 2016
2	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Flammability Test	IS 10810 (Part - 53): 2016
3	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	High Voltage Test (Room Temperature)	IS 10810 (Part - 45): 2016
4	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	High Voltage Test (Water Immersion)	IS 10810 (Part - 45): 2016
5	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Insulation Resistance Test	IS 10810 (Part - 43): 2016
6	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Mass of Zinc Coating	IS 10810 (Part - 41): 2016
7	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Resistance and Conductance of Armour	IS 10810 (Part - 42): 2016
8	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Shrinkage Test	IS 10810 (Part - 12): 2016
9	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Tensile Strength and Elongation for Armour	IS 10810 (Part - 37): 2016



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 2 / 41

Validity 19/09/2019 to 18/09/2021 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
10	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Tensile Test	IS 10810 (Part - 2): 2016
11	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Thermal Stability Test	IS 5831 (Appendix - B): 2016
12	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Thickness of Insulation and Strength	IS 10810 (Part - 6): 2016
13	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Wrapping Test	IS 10810 (Part - 3): 2016
14	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated Cables for Working Voltage upto and Including 1100 V	Annealing Test	IS 10810 (Part - 1): 2016
15	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated Cables for Working Voltage upto and Including 1100 V	Conductor Resistance	IS 10810 (Part - 5): 2016
16	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated Cables for Working Voltage upto and Including 1100 V	Flammability Test	IS 10810 (Part - 53): 2016
17	ELECTRICAL- CABLES & WIRES	Cable PVC Insulated Cables for Working Voltage upto and Including 1100 V	Thickness of Insulation and Sheath	IS 10810 (Part - 6): 2016
18	ELECTRICAL- CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Cold Impact Test	IS 10810 (Part - 21): 2016
19	ELECTRICAL- CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	High Voltage Test (Room Temperature)	IS 10810 (Part - 45): 2016



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 3 / 41

Validity 19/09/2019 to 18/09/2021 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
20	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	High Voltage Test (Water Immersion)	IS 10810 (Part - 45) : 2016
21	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Hot Deformation Test	IS 10810 (Part - 15): 2016
22	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Insulation Resistance Test	IS 10810 (Part - 43): 2016
23	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Loss for Mass	IS 10810 (Part - 10): 2016
24	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Shrinkage Test	IS 10810 (Part - 12): 2016
25	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Tensile Strength and Elongation at Breakage of Sheath	IS 10810 (Part - 7): 2016
26	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Tensile Test	IS 10810 (Part - 2): 2016
27	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Thermal Stability Test	IS 5831 (Appendix - B): 2016
28	ELECTRICAL-CABLES & WIRES	PCV Insulated Cables for Working Voltage upto and Including 1100 V	Wrapping Test	IS 10810 (Part - 3): 2016
29	ELECTRICAL-CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Annealing Test	IS 10810 (Part - 1): 2016
30	ELECTRICAL-CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Cold Bend Test	IS 10810 (Part - 20): 2016
31	ELECTRICAL-CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Conductor Resistance	IS 10810 (Part - 5): 2016



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 4 / 41

Validity 19/09/2019 to 18/09/2021 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
32	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Dimension of Armour	IS 10810 (Part - 36): 2016
33	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Heat Shock Test	IS 10810 (Part - 14): 2016
34	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Hot Deformation Test	IS 10810 (Part - 15): 2016
35	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Loss of Mass	IS 10810 (Part - 10): 2016
36	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltage upto and Including 1100 V	Tensile Strength and Elongation at Breakage of Sheath	IS 10810 (Part - 7): 2016
37	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables for Working Voltage upto and Including 1100 V	Additional Ageing Test	IS 694, Cl. 16.6: 2010
38	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables for Working Voltage upto and Including 1100 V	Cold Bend Test	IS 10810 (Part - 20): 2016
39	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables for Working Voltage upto and Including 1100 V	Heat Shock Test	IS 10810 (Part - 14): 2016
40	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	ampere and watt hour efficiency	IS 13369 Cl. 11.8, IS 1651: 2013, IS 15549: 2005
41	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Capacity (C20, C10 & C5) 2V-6V-12V C20 upto 1000 AH C10 upto 600 AH	JIS 8702-1 Cl. 7.1, IS 13369 Cl. 7, IS 1651: 2013



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 5 / 41

Validity 19/09/2019 to 18/09/2021 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
42	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Charge Retention 2V-6V-12V C20 upto 1000 AH C10 upto 600 AH	JIS 8702-1 Cl. 7.4, IS 13369 Cl. 11.6, IS 1651 Cl. 12.9: 2013
43	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Construction	JIS 8702-1 Cl. 1, IS 13369 Cl. 6, IS 1651: 2013
44	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Designation	JIS 8702-1 Cl. 4.3, IS 13369 Cl. 4, IS 1651: 2013
45	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Electrostatic discharge	IEC 61000-4-2 Cl. 1 to 8 : 2002
46	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Endurance 2V-6V-12V C20 upto 1000 AH C10 upto 600 AH	IS 13369 Cl. 11.7: 2013
47	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	gas recombination efficiency	IS 8702 Cl. 7.10 : 2009
48	ELECTRICAL- CELLS & BATTERIES	Sealed Lead Acid (SMF) Batteries, Tubular Batteries	Marking Polarity	JIS 8702-1 Cl. 4.4, IS 13369 Cl.8, IS 1651: 2013
49	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Case stress	IEC: 62133 (Part 1 & 2): 2017, IS 16046 (Part 1 & 2), Cl.7.2.3 and 7.2.2: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 6 / 41

Validity 19/09/2019 to 18/09/2021 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
50	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	External Short Circuit (cell and battery)	IEC: 62133 (Part 1 & 2) : 2017, IS 16046 (Part 1 and 2), Cl. 7.3.7 and 7.3.9: 2018
51	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Forced Discharge	IEC : 62133 (Part 1) : 2017, IS 16046 (Part 1) Cl. 7.3.9: 2018
52	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Free fall	IEC: 62133 (Part 1 & 2): 2017, IS 16046 (Part 1 & 2), Cl. 7.3.3: 2018
53	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Incorrect Installation	IEC : 62133 (Part 1) : 2017 , IS 16046 (Part 1) Cl. 7.3.1: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 7 / 41

Validity 19/09/2019 to 18/09/2021 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
54	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Information For Safety	IEC : 62133, IS 16046, Cl. 5 & Cl.9: 2018
55	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Low Pressure (high altitude test)	IEC : 62133 (Part 1): 2017, IS 16046 (Part 1), Cl.7.3.7: 2018
56	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Low rate Charging /Continuous charge	IEC 62133 (Part 1) :2017, IS 16046 (Part 1 & 2) Cl. 7.2.1: 2018
57	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Marking	IEC : 62133, IS 16046 Cl. 6: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 8 / 41

Validity 19/09/2019 to 18/09/2021 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
58	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Overcharge	IEC : 62133, IS 16046 Cl.4.3.8,4.3.9 & Cl. 7.3.8, 8.3.6: 2018
59	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Packaging	IEC : 62133 , IS 16046 Cl. 7 & Cl. 11: 2018
60	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Temperature Cycling	IEC : 62133 (Part 1 & part 2): 2017, IS 16046 (Part 1 & Part 2), Cl. 7.3.4 and 7.3.5 : 2018
61	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Thermal Abuse	IEC : 62133 part 1 : 2017, IS 16046 Cl. 7.3.5: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 9 / 41

Validity 19/09/2019 to 18/09/2021 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
62	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Vibration	IEC: 62133 (Part 1 & 2) : 2017, IS 16046 (Part 1 & 2), Cl.4.2.2 and Cl. 7.3.8.1 : 2018
63	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes - Safety Requirement for portable sealed Secondary Cells and for Batteries made from them, for use portable application (Nickel and lithium)	Mechanical shock	IEC : 62133 (Part 1 & 2): 2017, IS 16046 (Part 1 & 2), Cl. 7.3.4 and 7.3.8.2: 2018
64	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Capacity C5	IEC 61960 part 3 :2017 cl. 7.1 , IS 16047 part 3 : 2018
65	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Cell designation and marking	IEC 61960 part 3 Cl. 5 , IS 16047 part 3 : 2018
66	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Charge retention and recovery	IEC 61960 , part 3 :2017 Cl. 7.4 , IS 16047 part 3: 2018
67	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Charge(Capacity) recovery after long term storage (40°C , Tolerance 2°C)	IEC 61960 part 3: 2017, Cl. 7.5, IS 16047 part 3 Cl. 7.5 : 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 10 / 41

Validity 19/09/2019 to 18/09/2021 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
68	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Discharge performance	IEC 61960 part 3 Cl. 7.3.1 & Cl. 7.3.2, IS 16047 part 3: 2018
69	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Electro static Discharge (ESD)	IEC 61960 part 3 :2017, IS 16047, part 3 Cl 7.8: 2018
70	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Endurance in cycles (20°C , tolerance 2°C)	IEC 61960 part 3 :2017 Cl. 7.6, IS 16047 part 3, Cl. 7.6: 2018
71	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	High rate discharge performance (20 °C , 5 °C tolerance)	IEC 61960 Part 3 Cl. 7.3.3 : 2017, IS 16047 part 3 Cl. 7.3.3: 2018
72	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Internal resistance AC and DC	IEC 61960 -3 : 2017 , IS 16047 Part 3: Cl. 7.7 : 2018
73	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	standard cells	IEC 61960 part 3 : 2017 Cl. 6 , IS 16047 (Part 3) Cl 6 : 2018
74	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non acid electrolytes -lithium cells and batteries for portable applications	Test protocol	IEC 61960 part 3 , Cl 8 : 2017 , IS 16047 part 3 Cl. 8: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 11 / 41

Validity 19/09/2019 to 18/09/2021 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
75	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Creepage Distance and Clearances	IS:374 Cl. 10.15: 1979
76	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Earthing Connections	IS:374 Cl. 10.10: 1979
77	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Fan Speed	IS:374 Cl. 10.9: 1979
78	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	High Voltage	IS:374 Cl. 10.6: 1979
79	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Input	IS:374 Cl. 10.9: 1979
80	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Insulation Resistance	IS: 374 Cl. 10.7: 1979
81	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Leakage Current	IS:374 Cl. 10.5: 1979



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 12 / 41

Validity 19/09/2019 to 18/09/2021 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
82	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Moisture Resistance (only fan regulator)Upto 5 kV	IS:375 Cl. 10.12: 1979
83	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling type Fans	Starting	IS:374 Cl. 10.8: 1979
84	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type Fans	Temperature Rise	IS 302-1, IS 374 Cl. 10.4: 1979
85	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	AC Leakage Test	IS:1169 Cl. 16.8: 2018
86	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Earthing Continuity	IS:1169 Cl. 16.10: 2018
87	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Fan Speed	IS:1169 Cl. 16.12: 2018
88	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	High Voltage	IS:1169 Cl. 16.9: 2018



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 13 / 41

Validity 19/09/2019 to 18/09/2021 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
89	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Input	IS:1169 Cl. 16.11: 2018
90	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Insulation Resistance	IS:1169 Cl. 16.14: 2018
91	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Power Factor	IS:1169 Cl. 16.7: 2018
92	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Starting	IS:1169 Cl. 16.11: 2018
93	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Electric Pedestal Type Fans	Temperature Rise	IS 302-1, IS:1169 Cl. 16.3: 2018
94	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	AC Leakage Test	IS:2312 Cl. 14.7: 1967
95	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Earthing Continuity	IS:2312 Cl. 14.10: 1967



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 14 / 41

Validity 19/09/2019 to 18/09/2021 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
96	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Fan Speed	IS:2312 Cl. 14.12: 1967
97	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	High Voltage	IS:2312 Cl. 14.8: 1967
98	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Input	IS:2312 Cl. 14.11: 1967
99	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Insulation Resistance	IS:2312 Cl. 14.9: 1967
100	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Power Factor	IS:2312 Cl. 14.6: 1967
101	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Starting	IS:2312 Cl. 10.1: 1967
102	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Propeller Type AC Ventilating Fan	Temperature Rise	IS 302-1, IS:2312 Cl. 14.3: 1967



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 15 / 41

Validity 19/09/2019 to 18/09/2021 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
103	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Batteries, Thermal Imager, LED street light, Recorders	Vibration Sinusoidal	IS 9000 Part: 8, QM-333, JSS 55555 Test-23, IEC-60068-2-6, MIL STD G, JSS 5855, JSS 50501: 2015
104	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Bump	QM 333, JSS 55555 (Test No.5), IS: 9000 (Part VII /Sec 2) : 2016
105	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Damp Heat (Composite)	IS 9000 Part-6,QM 333,JSS 5855,JSS 50501: 2016
106	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	DropFree Fall / Tilt / Topple	IS: 9000 (Part VII / Sec 3) (reaffirmed 2004),JSS 5855,JSS 50501: 2016
107	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Resistance to Soldering Heat	JSS 50101 (Test No. 15), IS: 9000 (Part XVIII / Sec 1): 1981
108	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Salt Spray (Corrosion)	IS:9000 (Part XI / Sec 3) (reaffirmed 2004), QM 333, JSS 55555 (Test No. 9), Mil Std 810 G-509.5,JSS 5855,JSS 50501: 2016
109	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Solderability	JSS 50101 (Test No. 19), IS: 9000 (Part XVIII): 1981



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 16 / 41

Validity 19/09/2019 to 18/09/2021 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
110	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Environmental Testing such as Conditioning and Durability Testing of Electronic Equipments / Components, Fan Regulator, Power Supplies, Voltage Stabilizer, UPS, Inverter, Dry Battery, Wet Battery, Telephone Set	Damp Heat (Cyclic)	IS:9000 (Part V), QM 333, JSS 5855, JSS 50501, JSS 55555 (Test No.10), IEC:60068-2-30, Mil Std-810 G-507.5: 2016
111	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Environmental Testing such as Conditioning and Durability Testing of Electronic Equipments / Components, Fan Regulator, Power Supplies, Voltage Stabilizer, UPS, Inverter, Dry Battery, Wet Battery, Telephone Set	Damp Heat (Steady State)	IS:9000 (Part IV) :2008, QM 333, JSS 5855, JSS 50501, JSS 55555 (Test No.10), IEC:60068-2-78, Mil Std-810 G-507.5: 2015
112	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Environmental Testing such as Conditioning and Durability Testing of Electronic Equipments / Components, Fan Regulator, Power Supplies, Voltage Stabilizer, UPS, Inverter, Dry Battery, Wet Battery, Telephone Set	Dry Heat (High Temperature)	IS:9000 (Part III) :1977, QM 333, JSS 5855, JSS 50501, JSS 55555 (Test No.17), IEC:60068-2-2, Mil Std-810 G-501.5: 2016
113	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Environmental Testing such as Conditioning and Durability Testing of Electronic Equipments / Components, Fan Regulator, Power Supplies, Voltage Stabilizer, UPS, Inverter, Dry Battery, Wet Battery, Telephone Set	Temperature Cycling	IS:9000 (Part XIV) (reaffirmed 2004), QM 333, JSS 55555 (Test No.22), mil std 810 G-503.5, JSS 5855, JSS 50501: 2015



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 17 / 41

Validity 19/09/2019 to 18/09/2021 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
114	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Environmental Testing such as Conditioning and Durability Testing of Electronic Equipments / Components, Fan Regulator, Power Supplies, Voltage Stabilizer, UPS, Inverter, Dry Battery, Wet Battery, Telephone Set	Dry Cold (Low Temperature)	IS:9000 (Part II) :1977, QM 333, JSS 5855, JSS 50501, JSS 55555 (Test No. 20)-2012, IEC:60068-2-2, Mil Std-810 G-502.5: 2016
115	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Led Projector Light, Thermal imager etc.	Shock test	JSS 55555 Test No-24, Mil Std: 516.6, Is 60068-27, IS 9000. Part 7 Sec-1, JSS 5855, JSS 50501: 2015
116	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Motors, Recorders, Electronic Equipment's	Random Vibration	JSS 55555 Test No 28: 2000
117	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Transreceiver, Binocular Devices , Thermal Imager & all other electrical & electronic products	Ingress Protection	IS: 60529, IEC 60068-2, QM-333, JSS 55555, Mil Std-810-G, JSS 5855, JSS 50501: 2016
118	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	High Voltage	IS 8448 Cl. 12.5: 1989
119	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Induced voltage	IS 8448 Cl. 12.8: 1989
120	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Insulation Resistance	IS 8448 Cl. 12.4: 1989



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 18 / 41

Validity 19/09/2019 to 18/09/2021 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
121	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Leakage Current	IS 8448 Cl. 7.2: 1989
122	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	No Load Current	IS 8448 Cl. 12.6: 1989
123	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Output Voltage (AC & DC)	IS 8448 Cl. 12.3: 1989
124	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (step type)	Physical Examination	IS 8448 Cl. 6 & Cl. 10: 2013
125	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Provision of Earthing	IS 8448 Cl. 7.: 1989
126	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Automatic Line Voltage Correctors, Single Phase (Step Type)	Temperature Rise	IS 8448 Cl. 12.7: 1989
127	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors, single phase and Three phase	Insulation resistance	IS:9815 (Part-1) CL.11.4: 1994
128	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors, single phase and Three phase	Leakage current	IS 9815 Cl. 7.3: 1994
129	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors, single phase and Three phase	load loss test and efficiency	IS 9815 Cl. 11.9 : 1994



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 19 / 41

Validity 19/09/2019 to 18/09/2021 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
130	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors, single phase and Three phase	Measurement of no- load losses	IS 9815 Cl.11.8 : 1994
131	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors, single phase and Three phase	Test for continuous operation	IS 9815 Cl. 11.11: 1994
132	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Damp Heat	IS 9815 Cl.11.5: 1994
133	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	High voltage test	IS 9815 Cl. 11.5 : 1994
134	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Induced Voltage	IS 9815 Cl:11.10: 1994
135	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Lock Rotor test for servo	IS 9815 Cl. 11.14: 1994
136	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	No- Load Current	IS 9815 Cl.11.7: 1994
137	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Output voltage	IS 9815 Cl. 11.6: 1994
138	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Physical examination	IS 9815 CL.6 & CL.10: 1994



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 20 / 41

Validity 19/09/2019 to 18/09/2021 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
139	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Provision of Earthing	IS 9815 Cl. 7.2 : 1994
140	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Rate of Correction	IS 9815 Cl. 11.13: 1994
141	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Servo Motor Operated Automatic Line Voltage correctors,single phase and Three phase	Temperature Rise test	IS 9815 Cl. 11.12: 1994
142	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter , single phase	Insulation Resistance	IS 13314 ,CI 7.7 : 1992
143	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase	Auto transfer to stored energy mode and back to normal	IEC 62040 (Part 3):2011, IS 16242 (Part 3) Cl. 6.2.2.3.e : 2014
144	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter ,UPS single and three phase	auxillary devices	IEC 62040 (Part 3):2011, IS 16242 (Part 3) Cl. 6.2.2.3 c : 2014
145	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase	No load	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.2.2.4 : 2014
146	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase	Parallel redundant UPS fault	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.12: 2014
147	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase	Transfer test to bypass	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.2.2.9: 2014



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 21 / 41

Validity 19/09/2019 to 18/09/2021 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
148	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase, Environmental	Repetitive shock Test	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.5.2.1: 2014
149	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase, Input supply compatibility	Harmonic distortion of input current	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl 6.4.1.4: 2014
150	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase, output - Linear Load	Dynamic performance- stored energy to normal mode (AC)	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl 6.4.2.11.2: 2014
151	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter ,UPS single and three phase, output - Linear Load	Stored energy mode- no load	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl 6.4.2.3: 2014
152	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, Single phase	Damp heat	IS 13314 Cl. 7.10: 1992
153	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	Dry heat test	IS 13314 cl. 7.10 : 1992
154	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	Harmonics Contents	IS 13314, Cl. 7.11: 1992
155	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	High Voltage	IS 13314 : 1992
156	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, single phase	No load current	IS 13314 Cl. 7.8 : 1992



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 22 / 41

Validity 19/09/2019 to 18/09/2021 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
157	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	Output Voltage	IS 13314 Cl. 7.9: 1992
158	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, single phase	Cold test	IS 13314, Cl. 7.10: 1992
159	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	Efficiency	IS 13314, Cl. 7.9.3 : 1992
160	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, single phase	Marking	IS 13314 , Cl . 6: 1992
161	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, single phase	Frequency	IS 13314 Cl. 7.9.2 : 1992
162	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, single phase	Power factor	IS 13314 Cl. 7.9.3 : 1992
163	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	AC Input Failure	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.2.2.7: 2014
164	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	AC Input Return	IEC 62040 (Part-3): 2011, IS 16242 (Part 3) Cl. 6.2.2.8: 2014
165	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Auto transfer to bypass /isolation mode and back to normal	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.2.2.3.f : 2014



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 23 / 41

Validity 19/09/2019 to 18/09/2021 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
166	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	control devices	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI -6.2.2.3.a: 2014
167	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Full load	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.2.2.5 : 2014
168	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Manual transfer to bypass /isolation mode and back to normal	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.2.2.3.g : 2014
169	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Protective devices	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.2.2.3 b: 2014
170	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Supervisory , monitoring ,signalling device	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.2.2.3.d: 2014
171	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Synchronization Test / Frequency slew-rate	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.2.2.6: 2014
172	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Environmental	Free- Fall Test	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), cl. 6.5.2.2: 2014
173	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, UPS single and three phase, Input supply compatibility	Efficiency	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI. 6.4.1.6: 2014
174	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Input supply compatibility	Input frequency tolerance	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.1.2: 2014



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 24 / 41

Validity 19/09/2019 to 18/09/2021 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
175	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Input supply compatibility	Input inrush current	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.1.3: 2014
176	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Input supply compatibility	Power factor	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.1.5: 2014
177	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Input supply compatibility	stand- by generator compatibility	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.1.9: 2014
178	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Input supply compatibility	Steady- state input voltage tolerance	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.1.1: 2014
179	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Normal mode- No load	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.1: 2014
180	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, UPS single and three phase, output - Linear Load	3-phase voltage unbalance	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.5: 2014
181	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Current division across parallel UPS	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.7: 2014
182	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	DC Voltage component	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.6: 2014
183	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Dynamic performance- Normal to bypass mode overload	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.11.3: 2014



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 25 / 41

Validity 19/09/2019 to 18/09/2021 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
184	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Dynamic performance- Normal to stored energy mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.11.1: 2014
185	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Dynamic performance-step load - normal mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.11.4: 2014
186	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state Inverter, UPS single and three phase, output - Linear Load	Dynamic performance-step load - stored energy mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.11.5: 2014
187	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Fault clearing capability- normal mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.10.3: 2014
188	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Fault clearing capability- stored energy mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.10.4: 2014
189	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	normal mode- full load	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.2: 2014
190	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Overload- Normal mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.10.1: 2014
191	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Overload- stored energy mode	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.10.2: 2014
192	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, output - Linear Load	Periodic output voltage variation test	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), CI 6.4.2.9: 2014



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 26 / 41

Validity 19/09/2019 to 18/09/2021 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
193	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Stored and restored energy times	Battery ripple current	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.4.4.3: 2014
194	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Stored and restored energy times	Restart test	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.4.4.4: 2014
195	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase, Stored and restored energy times	Stored energy time	IEC 62040 (Part 3): 2011, IS 16242 (Part 3), Cl. 6.4.4.1: 2014
196	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Solid state inverter, UPS single and three phase	Cable and interconnection check	IEC 62040- (Part 3): 2011, IS 16242 (Part 3) Cl 6.2.2.2: 2014
197	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Stabilized Power Supply DC Output, 60V/30A	No Load Current	IS 7204 Part 4 CL: 18.4: 2016
198	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Stabilized Power Supply DC Output, 60V/30A	Output Voltage	IS 7204 Part 4: 2016
199	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS)	Clearances, Creepage Distance and Distance through Insulation	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.7, Cl. 2.10.2, 2.10.3.1 to 2.10.3.4, 2.10.3.6 to 2.10.3.7, 2.10.3.9(a), 2.10.4.3, 2.10.5: 2017



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 27 / 41

Validity 19/09/2019 to 18/09/2021 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
200	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS)	Clearances, Creepage Distance and Distance through Insulation	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.7, Cl. 2.10.2, 2.10.3.1 to 2.10.3.4, 2.10.3.6 to 2.10.3.7, 2.10.3.9(a), 2.10.4.3, 2.10.5: 2017: 2017
201	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS)	Connection to Power Wiring.Terminals for External Power ConductorsPhysical Requirement Enclosure	IS: 16242-1: 2014, IEC:62040-1 Cl. 5.5, IS: 16242-1: 2012, IEC:62040-1 Cl. 6.0, 6.1, 6.2, 6.3, 7.0, 7.1: 2017
202	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Abnormal Operating and Fault Conditions	IS: 16242-1: 2014, IEC:62040-1 Cl. 8.3: 2017
203	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	AC and DC Power Isolation Over Current and Earth Fault Protection Wiring Connections and Supply General	IS: 16242-1: 2014, IEC:62040-1 Cl. 5.4: 2017
204	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Battery Location	IS: 16242-1: 2014, IEC:62040-1 Cl. 7.6: 2017
205	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Clearances, Creepage Distance and Distance through Insulation	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.7, Cl. 2.10.2, 2.10.3.1 to 2.10.3.4, 2.10.3.6 to 2.10.3.7, 2.10.3.9(a), 2.10.4.3, 2.10.5: 2017: 2017



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 28 / 41

Validity 19/09/2019 to 18/09/2021 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
206	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Construction Details	IS: 16242-1: 2014, IEC:62040-1 Cl.7.4: 2017: 2017
207	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Construction Details	IS: 16242-1: 2014, IEC:62040-1 Cl.7.4: 2017: 2017
208	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Construction Details	IS: 16242-1: 2014, IEC:62040-1 Cl.7.4: 2017
209	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Electric Strength	IS: 16242-1: 2012, IEC:62040-1 Cl. 8.2: 2017
210	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Electrical Requirements and Simulated Abnormal Conditions General Provisions for Earth Leakage	IS: 16242-1: 2014, IEC:62040-1 Cl.8.0, 8.1: 2017
211	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Fundamental Design	IS: 16242-1: 2014, IEC:62040-1 Cl. 5.0: 2017
212	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Mechanical Strength	IS: 16242-1: 2012, IEC:62040-1 Cl. 7.3: 2017
213	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Power Interfaces	IS: 16242-1: 2014, IEC:62040-1 Cl. 4.6: 2017
214	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Power Interfaces	IS: 16242-1: 2014, IEC:62040-1 Cl. 4.6: 2017: 2017



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 29 / 41

Validity 19/09/2019 to 18/09/2021 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
215	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Power Interfaces	IS: 16242-1: 2014, IEC:62040-1 Cl. 4.6: 2017: 2017
216	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Protection Against Electric Shock and Energy Hazards	IS: 16242-1: 2014, IEC:62040-1 Cl. 5.1: 2017
217	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Protection Against Electric Shock and Energy Hazards	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.1: 2017
218	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Protection of Personnel - Safety Interlocks	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.6: 2017
219	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Protective Earthing and Bonding	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.3: 2017
220	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Requirement for Auxiliary Circuits	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.2: 2017: 2017
221	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Requirement for Auxiliary Circuits	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.2: 2017: 2017
222	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Requirement for Auxiliary Circuits	IS: 16242-1: 2012, IEC:62040-1 Cl. 5.2: 2017
223	ELECTRICAL-POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Resistance to Fire (Thermal Tests)	IS: 16242-1: 2014, IEC:62040-1 Cl. 7.5, Cl. 4.7.3.1 & 4.7.3.3 Method 1 of RD: 2017



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 30 / 41

Validity 19/09/2019 to 18/09/2021 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
224	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Stability	IS: 16242-1: 2012, IEC:62040-1 Cl. 7.2: 2017
225	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Temperature RiseBall Pressure Test apparatus: Upto 20 N	IS: 16242-1: 2012, IEC:62040-1 Cl. 7.7: 2008
226	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterrupted Power Systems (UPS) and Inverter	Visual Inspection and Manual Tests Markings and Instruction	IS: 16242-1: 2014, IEC:62040-1 Cl. 4.7: 2017
227	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Cold Test	IS:11037 Cl. 9.3.13.2: 1984
228	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Creepage Distances And Clearances	IS:11037 Cl. 9.3.9: 1984
229	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Design And Construction	IS:11037 Cl. 5: 1984
230	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Dry Heat Test	IS:11037 Cl. 9.3.13.3: 1984



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 31 / 41

Validity 19/09/2019 to 18/09/2021 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
231	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	EarthingAt 32 AC30 mV to 30 VACupto 25 A, 12 V	IS:11037 Cl. 9.3.5: 1984
232	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	General and Safety Requirements	IS:11037 Cl. 6: 1984
233	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	High Voltage 1500 VAC	IS:11037 Cl. 9.3.3: 1984
234	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Insulation Resistance	IS:11037 Cl. 9.3.4: 1984
235	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Leakage Current	IS:11037 Cl. 9.3.2: 1984
236	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Mechanical Endurance	IS:11037 Cl. 9.3.10: 1984



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 32 / 41

Validity 19/09/2019 to 18/09/2021 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
237	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Mechanical Strength	IS:11037 Cl. 9.3.8: 1984
238	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Moisture Resistance	IS:11037 Cl. 9.3.7: 1984
239	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Performance	IS:11037 Cl. 7: 1984
240	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Protection Against Electric Shock	IS:11037 Cl. 9.3.6: 1984
241	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Temperature Rise	IS:11037 Cl. 9.3.1: 1984
242	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Verification of Marking	IS:11037 Cl. 8: 1984



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 33 / 41

Validity 19/09/2019 to 18/09/2021 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
243	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Vibration Test	IS:11037 Cl. 9.3.13.4: 1984
244	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Electronic Fan Regulator	Voltage Drop Performance	IS:11037 Cl. 6.7: 1984
245	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	LCD Projector	Luminous Efficacy	JIS X 6911 : CL: 2.2 of annexure-2: 2003
246	ELECTRONICS- EMC TEST FACILITY	IT Products / House hold / Industrial / Medical Equipment	Electrical Fast Transient (EFT)	IEC:61000-4-4 :2012, IEC:61000-6-1 :2016, IEC:61000-6-2 :2016, IS:13779 :1999, IS:14700 (Part 4 / Sec 4) :2018, CISPR 24 :2010, IEC:60571 :2012, IEC: 60601-1-2 :2014, IEC:62236-3-2 :2018, TEC/EMI/TEL- 001, IEC: 61326-3-2 :2017, IEC:870-2-1 :1995, IEC:60255-26: 2013



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 34 / 41

Validity 19/09/2019 to 18/09/2021 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
247	ELECTRONICS- EMC TEST FACILITY	IT Products / House hold / Industrial / Medical Equipment	Electrostatic Discharge Immunity Test (ESD)Level 0.5 kV to 15 kVContact and Air Discharge	IEC:61000-4-2 :2008, IEC:61000-6-1 :2016, IEC:61000-6-2 :2016, IS:13779 :1999, CISPR 24 :2010, IEC:60571 :2012, IEC: 60601-1-2 :2014, IS:14700 (Part 4 / Sec 2), IEC:62236-3-2 :2018, TEC/EMI/TEL-001, IEC: 61326-3-2 :2017, IEC:870-2-1, IEC:60255-26: 2013
248	ELECTRONICS- EMC TEST FACILITY	IT Products / House hold / Industrial / Medical Equipment	Surge (Ring wave test)	IEC:870-2-1 :1995, IEC:61000-4-12: 2017
249	ELECTRONICS- EMC TEST FACILITY	IT Products / House hold / Industrial / Medical Equipment	Surge Immunity Test	IEC:61000-4-5 :2014, IEC:61000-6-1 :2016, IEC:61000-6-2 :2016, IS:13779 :1999, CISPR 24 :2010, IEC:60571 :2012, IEC: 60601-1-2 :2014, TEC/EMI/TEL-001, IEC:62236-3-2 :2018, IEC: 61326-3-2 :2017, IEC:60255-26 :2013, IEC:60255-22-5, IEC:870-2-1: 1995
250	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic Items	Tropical Exposures	IEC 60068-2, QM 333, JSS 5855, JSS 50501, JSS 55555 (Test no 27): 2016



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 35 / 41

Validity 19/09/2019 to 18/09/2021 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
251	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics & Electrical Devices	Driving Rain Test	IEC 60068-2, JSS 5855, JSS 55555 (Test No.12), Mil Std-810 G-506.5: 2016
252	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics & Electrical Devices	Rapid Temperature Cycling Test	IEC 60068-2, JSS 5855, JSS 55555 (Test No.22), QM-333: 2016
253	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Transreceiver, Binocular Devices , Thermal Imager & all other electrical & electronic products	Altitude Test	IEC 60068-2, JSS 5855, JSS 55555 (Test No.3)-2012, Mil Std-810 G-500.5: 2016
254	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Opening in Enclosures	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.6.2: 2005
255	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Production of cable distribution system service persons , and user of other equipment connected to the system, from hazards voltages in the equipment	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 7.4.3: 2005
256	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Safety Interlocks	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.8: 2005
257	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	TNV Circuits	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.3: 2005
258	ELECTRONICS- IT EQUIPMENT	Personal Computer	Bump	IS:14896 Cl. 10.4.7: 2001
259	ELECTRONICS- IT EQUIPMENT	Personal Computer	Burn-In	IS:14896 Cl. 10.4.2: 2001



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 36 / 41

Validity 19/09/2019 to 18/09/2021 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
260	ELECTRONICS- IT EQUIPMENT	Personal Computer	Clock Rate	IS:14896 Cl. 4.1.1 c: 2001
261	ELECTRONICS- IT EQUIPMENT	Personal Computer	Cold	IS:14896 Cl. 10.4.5: 2001
262	ELECTRONICS- IT EQUIPMENT	Personal Computer	Damp Heat Test	IS:14896 Cl. 10.4.4: 2001
263	ELECTRONICS- IT EQUIPMENT	Personal Computer	Dielectric Test	IS:14896 Cl. 4.2 b: 2001
264	ELECTRONICS- IT EQUIPMENT	Personal Computer	Drop	IS:14896 Cl. 10.4.6: 2001
265	ELECTRONICS- IT EQUIPMENT	Personal Computer	Dry Heat	IS:14896 Cl. 10.4.3: 2001
266	ELECTRONICS- IT EQUIPMENT	Personal Computer	Effect of Power Supply: Voltage Frequency	IS:14896 Cl. 7.3: 2001
267	ELECTRONICS- IT EQUIPMENT	Personal Computer	Electric Fast Transient/Burst	IS:14896 Cl. 6.2 b: 2001
268	ELECTRONICS- IT EQUIPMENT	Personal Computer	External And Internal Interfaces Display Key Board	IS:14896 Cl. 4.2: 2001
269	ELECTRONICS- IT EQUIPMENT	Personal Computer	General Requirement	IS:14896 Cl. 4: 2001
270	ELECTRONICS- IT EQUIPMENT	Personal Computer	Immunity to Electrostatic Discharge	IS:14896 Cl. 6.2 a: 2001
271	ELECTRONICS- IT EQUIPMENT	Personal Computer	Leakage Current	IS:14896 Cl. 5.1 a: 2001
272	ELECTRONICS- IT EQUIPMENT	Personal Computer	Micro Processor Used	IS:14896 Cl. 4.1.1 a: 2001



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 37 / 41

Validity 19/09/2019 to 18/09/2021 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
273	ELECTRONICS- IT EQUIPMENT	Personal Computer	Performance Requirements Visual Examination And Functional Performance	IS:14896 Cl. 7.1: 2001
274	ELECTRONICS- IT EQUIPMENT	Personal Computer	Power Supply	IS:14896 Cl. 4.5: 2001
275	ELECTRONICS- IT EQUIPMENT	Personal Computer	RAM Capacity	IS:14896 Cl. 10.4.1.1.d: 2001: 2001
276	ELECTRONICS- IT EQUIPMENT	Personal Computer	RAM Expansion	IS:14896 Cl. 4.1.1 b: 2001
277	ELECTRONICS- IT EQUIPMENT	Personal Computer	Surge/Spike	IS:14896 Cl. 6.2 c: 2001
278	ELECTRONICS- IT EQUIPMENT	Personal Computer	Verification of Marking	IS:14896 Cl. 8: 2001
279	ELECTRONICS- IT EQUIPMENT	Personal Computer	Vibration	IS:14896 Cl. 10.4.1: 2001
280	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment	Abnormal Operating and Fault Conditions	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 5.3: 2005
281	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment	Clearances and Creepage Distances	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.10.2, 2.10.3.1 to 2.10.3.4, 2.10.3.6 to 2.10.3.7, 2.10.3.9(a), 2.10.4.3 & 2.10.5 of RD: 2005
282	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment	Connection to Mains Supply Upto 6.0 Nm, Upto 100 N, Upto 20 mm	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 3.2.6 & 3.2.8: 2005



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 38 / 41

Validity 19/09/2019 to 18/09/2021 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
283	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Design and Construction	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.3.6: 2005
284	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Disconnection from the Mains Supply	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 3.4: 2005
285	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Electric Strength	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 5.2: 2005
286	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Insulation Requirements	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.9: 2005
287	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Interconnection of Equipment	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 3.5: 2005
288	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Limited Current Circuits (at 1 kHz)	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.4: 2005
289	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Limited Current Circuits (at 1kHz)	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.4: 2005
290	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Limited Current Circuits (at 1kHz)	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.4: 2005
291	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Limited Current Circuits	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.4: 2005



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 39 / 41

Validity 19/09/2019 to 18/09/2021 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
292	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Limited Power Source	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.5: 2005
293	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Mechanical Strength (Impact Test)	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.2: 2005
294	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Over-current and Earth Fault Protection In Primary Circuits	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.7: 2005
295	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Power Interface	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 1.6: 2005
296	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Protection Against Hazardous Moving Parts	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.4: 2005
297	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Protection from Electric Shock and Energy Hazards	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.1: 2005
298	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Protection of Equipment Users from Over Voltages on Telecommunication Networks	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 6.2.2.2: 2005
299	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Provisions for Earthing and Bonding	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.6: 2005
300	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Provisions for Earthing and Bonding	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.6: 2005



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 40 / 41

Validity 19/09/2019 to 18/09/2021 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
301	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Provisions for Earthing and Bonding	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.6: 2005
302	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Provisions for Earthing and Bonding (upto 12V max)	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.6: 2005
303	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Resistance to Fire	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.7.3.1 & 4.7.3.3: 2005
304	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	SELV Circuits	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 2.2: 2005
305	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Stability Test	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.1: 2005
306	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Thermal Requirements	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 4.5: 2005
307	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Touch Current and Protective Conductor Current	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 5.1: 2005
308	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Verification of Marking and Instructions	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 1.7: 2005
309	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Wiring Terminals for Connection of External Conductors	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 3.3: 2005



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ELECTRONICS TEST AND DEVELOPMENT CENTRE, B-108, INDUSTRIAL AREA, PHASE-8,, MOHALI, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5465 Page No. : 41 / 41

Validity 19/09/2019 to 18/09/2021 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
310	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment	Wiring, Connections and Supply-General Requirement	IS: 13252 (Part 1) :1999, IS:60950 (Part 1) Cl. 3.1: 2005