National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ABB INDIA LIMITED- ELSP-TESTING LABORATORY, 88/3; 88/6, BASAVA NAHALLI VILLAGE, NELMANGALA, BENGALURU NORTH, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 1 of 8

Validity 03/01/2022 to 02/01/2024 **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-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Clearances & creepage	IS/IEC 60898-1
2	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Dielectric properties and isolating capability (High Voltage test & Impulse Test)	IS/IEC 60898-1
3	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Indelibility of marking	IS/IEC 60898-1
4	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Mechanical and electrical endurance.	IS/IEC 60898-1
5	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Reliability of screws, current-carrying parts and connections.	IS/IEC 60898-1
6	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Reliability of screw-type terminals for external copper conductors.	IS/IEC 60898-1
7	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Resistance to heat	IS/IEC 60898-1
8	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Temperature-rise (up to 400A)	IS/IEC 60898-1
9	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Clearances & creepage	IEC 60898-1
10	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Dielectric properties and isolating capability (High Voltage test & Impulse Test)	IEC 60898-1
11	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Indelibility of marking	IEC 60898-1
12	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Mechanical and electrical endurance	IEC 60898-1
13	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Reliability of screws, current-carrying parts and connections.	IEC 60898-1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 2 of 8

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14	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Reliability of screw-type terminals for external copper conductors.	IEC 60898-1
15	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Resistance to heat	IEC 60898-1
16	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers	Temperature-rise (up to 400A)	IEC 60898-1
17	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Dielectric properties (High Voltage test & Impulse Test)	IEC 60947-2
18	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Dielectric properties (High Voltage test & Impulse Test)	IS/IEC 60947-2
19	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Mechanical operation and operational Performance capability.(electrical endurance up to 400A)	IEC 60947-2
20	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Mechanical operation and operational Performance capability.(electrical endurance up to 400A)	IS/IEC 60947-2
21	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Tripping limits and characteristics	IS/IEC 60947-2
22	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of dielectric withstand	IEC 60947-2
23	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of dielectric withstand	IS/IEC 60947-2
24	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of main contact position (for circuit breakers suitable for isolation)	IEC 60947-2
25	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of main contact position (for circuit breakers suitable for isolation)	IS/IEC 60947-2
26	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of overload releases	IEC 60947-2

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 3 of 8

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27	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of overload releases	IS/IEC 60947-2
28	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of temperature-rise (up to 8000A)	IS/IEC 60947-2
29	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of temperature-rise.(up to 8000A)	IEC 60947-2
30	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of under voltage and shunt releases	IEC 60947-2
31	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Verification of under voltage and shunt releases	IS/IEC 60947-2
32	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breakers-ACB & MCCB	Tripping limits and characteristics	IEC 60947-2
33	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Dielectric properties (High Voltage test & Impulse Test)	IEC 60947-5-1
34	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Dielectric properties (High Voltage test & Impulse Test)	IS/IEC 60947-5-1
35	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Dielectric verification (High Voltage test)	IEC 60947-5-1
36	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Dielectric verification (High Voltage test)	IS/IEC 60947-5-1
37	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Making & breaking capacities of switching elements (under abnormal conditions)	IEC 60947-5-1
38	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Making & breaking capacities of switching elements (under abnormal conditions)	IS/IEC 60947-5-1
39	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Making & breaking capacities of switching elements under normal conditions	IEC 60947-5-1
40	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Making & breaking capacities of switching elements(under normal conditions)	IS/IEC 60947-5-1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 4 of 8

Validity 03/01/2022 to 02/01/2024 **Last Amended on** -

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41	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Pullout test	IEC 60947-5-1
42	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Temperature rise.(up to 400A)	IEC 60947-5-1
43	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Temperature rise.(up to 400A)	IS/IEC 60947-5-1
44	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Control-circuit devices and switching elements	Testing for damage to and accidental loosening of conductors (flexion test)	IEC 60947-5-1
45	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of clearances and creepage	IS/IEC 61439-3
46	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of dielectric properties (High Voltage test & Impulse Test)	IS/IEC 61439-3
47	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of temperature rise limits.(up to 8000A)	IS/IEC 61439-3
48	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of clearances and creepage distances.	IEC 61439-3
49	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of dielectric properties (High Voltage test & Impulse Test)	IEC 61439-3
50	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Distribution Boards	Verification of temperature rise limits.(Up to 8000A)	IEC 61439-3
51	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	ability of contactors to withstand overload current.	IEC 60947-4-1
52	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	ability of contactors to withstand overload current.	IS/IEC 60947-4-1
53	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Dielectric properties (High Voltage test & Impulse Test)	IEC 60947-4-1
54	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Dielectric properties (High Voltage test & Impulse Test)	IS/IEC 60947-4-1

SCOPE OF ACCREDITATION

Laboratory Name : ABB INDIA LIMITED- ELSP-TESTING LABORATORY, 88/3; 88/6, BASAVA NAHALLI VILLAGE, NELMANGALA, BENGALURU NORTH, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 5 of 8

Validity 03/01/2022 to 02/01/2024 **Last Amended on** -

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55	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Electrical durability except AC3	IEC 60947-4-1
56	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Electrical durability except AC3	IS/IEC 60947-4-1
57	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Mechanical durability.	IEC 60947-4-1
58	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Mechanical durability.	IS/IEC 60947-4-1
59	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Mechanical properties of terminals (Flexion & Pullout test of terminals)	IEC 60947-4-1
60	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors & motors starters	Temperature rise.(16A-8000A)	IS/IEC 60947-4-1
61	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Contactors and motor starters.	Temperature rise(up to 8000A)	IEC 60947-4-1
62	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Dielectric properties (High Voltage test & Impulse Test)	IEC 60947-3
63	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Dielectric properties (High Voltage test & Impulse Test)	IS/IEC 60947-3
64	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Dielectric verification (High Voltage test)	IEC 60947-3
65	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Dielectric verification (High Voltage test)	IS/IEC 60947-3
66	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Leakage current.	IEC 60947-3
67	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Leakage current.	IS/IEC 60947-3
68	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Operational performance.	IEC 60947-3

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10197 **Page No** 6 of 8

Validity 03/01/2022 to 02/01/2024 **Last Amended on** -

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69	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Operational performance.	IS/IEC 60947-3
70	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Overload test	IEC 60947-3
71	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Overload test	IS/IEC 60947-3
72	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Strength of actuator mechanism.	IEC 60947-3
73	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Strength of actuator mechanism.	IS/IEC 60947-3
74	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Temperature rise. (16A-8000A)	IS/IEC 60947-3
75	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Temperature-rise verification (up to 8000A)	IEC 60947-3
76	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Temperature-rise verification (Up to 8000A)	IS/IEC 60947-3
77	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switches, disconnectors, switch-disconnectors, and fuse combination units.	Temperature rise (up to 8000A)	IEC 60947-3
78	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Clearances and creepage distances.	IEC 61439-1 & 2
79	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Clearances and creepage distances.	IS/IEC 61439-1 & 2
80	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Dielectric properties except DC voltage (High Voltage test & Impulse Test)	IEC 61439-1 & 2
81	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Dielectric properties except DC voltage (High Voltage test & Impulse Test)	IS/IEC 61439-1 & 2
82	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Verification by test	IEC 61439-1 & 2

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Certificate Number TC-10197 **Page No** 7 of 8

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83	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Verification of temperature rise.(Up to 8000A)	IEC 61439-1 & 2
84	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Verification of temperature rise.(up to 8000A)	IS/IEC 61439-1 & 2
85	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies	Verification of thermal stability of enclosures.	IS/IEC 61439-1 & 2
86	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV switchgear & control gear assemblies.	Verification of thermal stability of enclosures.	IEC 61439-1 & 2
87	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Clearances & creepage	IS 12640-1
88	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Dielectric properties and isolating capability (High Voltage test & Impulse Test)	IS 12640-1
89	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Indelibility of marking	IS 12640-1
90	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Reliability of screws, current-carrying parts and connections.	IS 12640-1
91	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Reliability of screw-type terminals for external copper conductors.	IS 12640-1
92	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Resistance to heat	IS 12640-1
93	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Temperature-rise (Up to 400A)	IS 12640-1
94	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Clearances & creepage	IEC 61008-1
95	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Dielectric properties and isolating capability (High Voltage test & Impulse Test)	IEC 61008-1
96	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Indelibility of marking	IEC 61008-1

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Certificate Number TC-10197 **Page No** 8 of 8

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97	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Reliability of screws, current-carrying parts and connections.	IEC 61008-1
98	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Reliability of screw-type terminals for external copper conductors.	IEC 61008-1
99	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Resistance to heat	IEC 61008-1
100	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB	Temperature-rise (up to 400A)	IEC 61008-1