



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **ATCC TEST LABS**

45/6 PRAHALADPUR BANGAR INDUSTRIAL AREA  
DELHI, 110042, REPUBLIC OF INDIA

### **Testing Laboratory TL-1104**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date October 1, 2024  
Effective Date October 24, 2023



A handwritten signature in black ink, reading 'Raj Nath'.

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## ATCC TEST LABS

**Contact Name** Mr. Rajiv Jadon

**Contact Phone** +91-9891606632

*Accredited to ISO/IEC 17025:2017*

*Effective Date October 24, 2023*

<b>ELECTRONICS</b>	
IEC 62087-1	Audio, video, and related equipment – Determination of power consumption – Part 1: General
IEC 62087-3	Audio, video, and related equipment – Determination of power consumption – Part 3: Television sets
IEC 62301	Household electrical appliances – Measurement of standby power
IS 616 (IEC60065)	Audio Video and Similar Electronic Apparatus – Safety Requirements
IS 13252-1 (IEC60950-1)	Information Technology Equipment – Safety Part1 General Requirements Exclusion: Ultraviolet conditioning test
IS 16242-1 (IEC62040-1)	Uninterruptible power systems (UPS) – Part 1: General and safety requirements for UPS
IS 16333-3	Mobile Phone Handsets Part 3 Indian Language Support for Mobile Phone Handsets – Specific Requirements
<b>ELECTRICAL – (LAMP, LUMINARIES &amp; ACCESSORIES)</b>	
IS 10322-5-1 (IEC 60598-2-1)	Luminaires – Part 5: Particular requirements – Section 1: Fixed General Purpose luminaires
IS 10322-5-2 (IEC 60598-2-2)	Luminaires – Part 5: Particular Requirements – Section 2: Recessed Luminaires
IS 10322-5-3 (IEC 60598-2-3)	Luminaires – Part 5: Particular Requirements – Section3: Luminaires for Road and Street Lighting
IS 10322-5-4 (IEC 60598-2-4)	Luminaires – Part 5: Particular requirements – Section 4: Portable general-purpose luminaires
IS 10322-5-5 (IEC 60598-2-5)	Luminaires – Part 5: Particular requirements – Section 5: Floodlights
IS 10322-5-6 (IEC 60598-2-8)	Luminaires – Part 5: Particular Requirements – Section 6: Hand lamps
IS 10322-5-7 (IEC 60598-2-20)	Luminaries – Part 5: Particular Requirements – Section 7: Lighting Chains

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IS 10322-5-8 (IEC 60598-2-22)	Luminaires – Part 5: Particular Requirements – Section 8: Emergency Lighting
IS 10322-5-9 (IEC 60598-2-21)	Luminaires – Part 5: Particular Requirements – Section 9: Rope Lights
IS 15885 -2 -13 (IEC 61347-2-13)	Safety of Lamp Control gear Particular requirements Section 13 D.C. or A.C. Supplied Control gear for LED Modules
IS 16102-1	Self-Ballasted LED Lamps for General Lighting Services, Part 1 Safety Requirements
IS 16102-2 (IEC 62612)	Self-Ballasted LED Lamps for General Lighting Services, Part 2: Performance Requirements
IS 16103-1 (IEC 62031)	LED Modules for General Lighting Part 1 Safety Requirements (excluded: h) Conformity testing during manufacture, j) Construction)
IS 16103-2 (IEC 62717)	LED modules for general lighting Part 2 Performance requirements
IS 16104	D.C. or A.C. Supplied Electronic Control Gear for LED Modules- Performance Requirements
<b>PHOTOMETRY TESTING</b>	
IES LM 79-08	Method of Electrical and Photometric Measurements of Solid-State Lighting (LED) Products
IS 16107-2 -1 (IEC 62722-2-1)	Luminaires performance Part 2: Particular requirements, Section 1: Led Luminaire
<b>ELECTRICAL – DOMESTIC ELECTRICAL APPLIANCES &amp; ACCESSORIES</b>	
IEC 60034-1	Rotating Electrical Machines, Part 1 Rating and performance  <u>Only Induction Motors for the following clauses:</u> Rating (Cl. 5), Temperature rise of a part of a machine (Cl. 8.4), Determination by resistance method (Cl. 8.6.2), Measurement of bearing temperature (Cl. 8.9), Withstand voltage test (Cl. 9.2) up to 5 kV, Momentary excess torque for motor (Cl. 9.4), Pull-up torque (Cl. 9.5), Marking (Cl. 10.2)
IS 302-1 (IEC 60335-1)	Safety of household and similar electrical appliances: Part 1 General requirements
IS 302-2-3 (IEC 60335-2-3) IS366	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 3 Electric Iron – Specification
IS 302-2-6 (IEC 60335-2-6)	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 6 Cooking Range, Hobs, Oven and Similar appliances

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IS 302-2-15 (IEC 60335-2-15)	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 15 Appliances for Heating Liquids
IS 302-2-21 (IEC 60335-2-21) IS 2082	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 21 Electric Water Stationary Storage Heaters – Specifications
IS 302-2-25 (IEC 60335-2-25)	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 25 Microwave Oven including combination Ovens
IS 302-2-26 (IEC 60335-2-26)	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 26 Clocks
IS 302-2-30 (IEC 60335-2-30)	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 30 Room Heater
IS 302-2-35 (IEC 60335-2-35) IS 8978	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 35 Electric Instantaneous Water Heaters Specification for Electric Instantaneous Water Heaters
IS 302-2-80 (IEC 60335-2-80)	Household and similar electrical appliances – Safety: Part 2-80 Particular requirements for Fans
IS 302-2-201 (IEC 60335-2-74) IS 368	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 201 Electric Immersion Water Heater – Specification
IS 302-2-202 IS 2994	Safety of household and similar electrical appliances: Part 2 Particular requirements, Section 202 Electric Stoves Electric Stoves – Specification
IS 374	Electric Ceiling Type Fans – Specification
IS 996	Single-phase A.C. induction motors for general purpose
IS 1293	Plugs and socket-outlets of rated voltage up to and including 250 volts and rated current up to and including 16 amperes – Specification
IS 2312	Specification for Propeller type AC Ventilating Fans
IS 3854	Switches for domestic and similar purposes – Specification
IS 4159 (IEC 60335-2-73)	Mineral Filled Sheathed Heating Elements – Specification Exclusion: Leakage and Hydrostatic Test for Oil Heating Elements
IS 4250	Specification for Domestic Electric Food-Mixers (Liquidizers and Grinders)
IS 9537-3	Rigid plain conduits of insulating materials
IS 12615	Line Operated Three Phase A.C. Motors (IE Code) “Efficiency Classes and Performance Specification” (excluded: 16.3.2 Test for Noise Level of Motor, 16.3.3 Test for Degree of Protection of Enclosure)
IS 15999-1	Rotating Electrical Machines, Part 1 Rating and performance

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	<p><u>Only Induction Motors for the following clauses:</u>            Rating (Cl. 5),            Temperature rise of a part of a machine (Cl. 8.4),            Determination by resistance method (Cl. 8.6.2),            Measurement of bearing temperature (Cl. 8.9),            Withstand voltage test (Cl. 9.2) up to 5 kV,            Momentary excess torque for motor (Cl. 9.4),            Pull-up torque (Cl. 9.5),            Marking (Cl. 10.2)</p>
<b>ELECTRICAL – (TRANSMISSION LINE EQUIPMENT &amp; ACCESSORIES)</b>	
BS EN 50483-1	Test requirements for low voltage aerial bundled cable accessories - Part 1: Generalities
BS EN 50483-2	Test Requirements for Low Voltage Aerial Bundled Cable Accessories. Tension And Suspension Clamps for Self-Supporting System
BS EN 50483-3	Test requirements for low voltage aerial bundled cable accessories - Part 3: Tension and suspension clamps for neutral messenger system
BS EN 50483-4	Test requirements for low voltage aerial bundled cable accessories - Part 4: Connectors
BS EN 50483-5	Test requirements for low voltage aerial bundled cable accessories- part 5 Electrical ageing tests
BS EN 50483-6	Test requirements for low voltage aerial bundled cable accessories - Part 6: Environmental testing
NFC33-004	Insulated cables and their accessories for power systems - connecting equipment for overhead distributions and services of rated voltage 0,6/1 KV with at least one insulated core - electrical ageing test
NFC33-020	Insulated cables and their accessories for power systems - insulation piercing branch-connectors for overhead distributions and services with bundle assembled cores, of rated voltage 0,6/1 KV
NFC33-021	Insulated cables and their accessories for power systems – pre-insulated compression type connecting equipment for overhead distributions and services with bundle assembled cores, of rated voltage 0,6/1 KV
NFC33-040	Insulated cables and their accessories for power systems - suspension equipments for overhead distribution with bundle assembled cores, of rated voltage 0,6/1 KV
NFC33-041	Insulated Cable and their Accessories for Power System anchoring device for overhead distribution with bundle assembled cores of raved Voltage 0.6/1KV
<b>EMI/EMCTEST</b>	
IEC 61000-4-5	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test Inclusion Voltage surge test (1.2/50 µs, 10/700µs)

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<b>ELECTRICAL-ENVIRONMENTAL TESTING</b>	
IEC 60068-2-1	Environmental testing – Part 2-1: Tests – Test A: Cold
IEC 60068-2-2	Environmental testing – Part 2-2: Tests – Test B: Dry-heat Exclusion Severity test above 315 Deg C
IEC 60068-2-14	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-27	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock
IEC 60068-2-30:2005-08	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)
IEC 60068-2-31	Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens (Exclusion – Drop and Topple Test)
IEC 60068-2-75	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (Inclusion – Pendulum Hammer)
IEC 60068-2-78	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state
IEC 60571	Railway applications – Electronic equipment used on rolling stock Inclusion – Cold Start Test (12.2.4), Dry heat test (12.2.5), Dump heat Test (12.2.6), Supply overvoltage (12.2.7), Insulation test (12.2.10), Salt Mist test (12.2.11), Vibration, shock and bump test (12.2.12), Watertightness test (12.2.13), Equipment Stress screening (12.2.14), and Low Temperature storage test (12.2.15)
IEC 60695-2-10	Fire hazard testing – Part 2 Test Methods Section 1 Glow-wire apparatus and common test procedure
IEC 60695-11-5	Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance
IEC 61373	Railway applications – Rolling stock equipment – Shock and vibration tests
IEC 62262	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
IS 2824	Method for determining of the proof and the comparative tracking indices of solid insulating materials
IS 11000 Part 2/Sec1	Fire Hazard Testing Part 2 Test Methods Section 1 Glow-wire apparatus and common test procedure
IS 9000-1	Basic Environmental Testing Procedures for Electronic and Electrical Items, Part 1: General
IS 9000-2- 1 to 4	Basic Environmental Testing Procedures for Electronic and Electrical Items, Part 2: Cold Test
IS 9000-3- 1 to 5	Basic Environmental Testing Procedures for Electronic and Electrical Items, Part 3: Dry Heat Test

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IS 9000-4	Basic Environmental Testing Procedures for Electronic and Electrical Items, Part 4: Damp heat (Steady state)
IS 9000-5- 1 to 2	Basic environmental testing procedures for electronic and electrical items, Part 5: Damp heat (cyclic) test
IS 9000-6	Basic environmental testing procedures for electronic and electrical items, Part 6: Composite Temperature Humidity Cycle Test
IS 9000-7: Sec 1	Basic environmental testing procedures for electronic and electrical items, Part 7: Impact test, Section 1 Shocks (Test Ea)
IS 9000-11	Basic environmental testing procedures for electronic and electrical items, Part 11: Salt mist test
IS 9000-12	Basic environmental testing procedures for electronic and electrical items, Part 12: Dust test
IS 9000-14- Sec 1 to 3)	Basic environmental testing procedures for electronic and electrical items, Part 14 Test N: Change of Temperature
IS 11000 Part 2/Sec1	Fire Hazard Testing Part 2 Test Methods Section 1 Glow-wire apparatus and common test procedure
ISO 306	Plastics -Thermoplastic Materials-Determination of the Vicat softening temperature (VST)
ISO 15003	Agricultural engineering. Electrical and electronic equipment. Testing resistance to environmental conditions Inclusion Tests Clause 5.2 to 5.8
JSS50101	Environmental test methods. for electronic components Inclusion Test 20- Temperature Cycling, Test 22 - Temperature Dry Heat, Test 21-Temperature Cold Test No 5- Damp Heat (Cyclic), Test no 6 – Damp heat (Moisture Resistance) and Test No 7 – Damp Heat (Steady state)
JSS55555	Environmental test methods. for electronic and electrical equipment; Inclusion Test No 10 – Damp Heat, Test No 13 – Drop, Test No 17 – High Temperature, Test No 20 – Low Temperature, and Test No 22 – Rapid Temperature Cycling (Thermal Shock)
RDSO/PE/SPEC/TL/0091	Specification for Energy Efficient LED based Luminaire units for passenger coaches Exclusion – EMI/EMC