

Laboratory**EMTAC Laboratories Private Limited, Plot No. 11/6, Road No. 9, IDA,
Nacharam Rangareddy, Keesara, Hyderabad, Telangana****Location 1 - Plot No. 11/6, Road No. 9, IDA, Nacharam Rangareddy, Keesara,
Hyderabad, Telangana****Location 2 - 202 & 203, NSIC Business Park, Kushaiguda, Hyderabad,
Telangana****Accreditation Standard ISO/IEC 17025: 2005****Discipline Electrical Testing****Issue Date 29.01.2016****Certificate Number T-3777****Valid Until 10.09.2017****Last Amended on -****Page 1 of 5**

| S. No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|---------------|---------------------------------------|--------------------------------|--|---|
|---------------|---------------------------------------|--------------------------------|--|---|

LOCATION 1**I. DOMESTIC ELECTRICAL APPLIANCES**

| | | | | |
|-----------|---|-------------------|---------------------------|---|
| 1. | Electrical Ceiling Fans and Regulators | Air Delivery | IS 374: 1979 Clause 10.3 | Sizes: (900, 1050, 1200, 1400 & 1500) mm Test Chamber (4.5 m x 4.5 m x 3.0 m) 0.5 m/s to 35 m/s 100 rpm to 60000 rpm 75 W to 3000 W |
| | | Suspension system | IS 374: 1979 Clause 10.14 | 1000 kg 10 Nm to 200 Nm 21 mm to 300 mm |

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LOCATION 2

I. DOMESTIC ELECTRICAL APPLIANCES

| | | | |
|--|----------------------------------|--|---|
| 1. Electrical Ceiling Fans and Regulators | Insulation Resistance | IS 374: 1979 Clause 10.7 | 1 MΩ to 150 GΩ @ 500 V DC |
| | Leakage current | IS 374: 1979 Clause 10.5 IS 302: 1979 Clause 13.2 | 99 μA rms to 999 μA rms |
| | High Voltage | IS 374: 1979 Clause 10.6 | 0.50 kV AC to 5 kV AC |
| | Temperature rise | IS 374: 1979 Clause 10.4 | 1 mΩ to 1800 Ω (Ambient Temp.: 400 °C) |
| | Creepage Distance and Clearances | IS 374: 1979 Clause 10.15 IS 302: 1979 Clause 29 | Up to 25 mm |
| | Starting | IS 374: 1979 Clause 10.8 | 15 V to 600 V |
| | Air Delivery | IS 374: 1979 Clause 10.3 | Sizes: (900, 1050, 1200, 1400 & 1500) mm Test Chamber (4.5 m x 4.5 m x 3.0 m) 0.5 m/s to 35 m/s 100 rpm to 60000 rpm 75 W to 3000 W |
| | Fan Speed and input | IS 374: 1979 Clause 10.9 | 100 rpm to 60000 rpm 75 W to 3000 W 5 mA to 20 A 0.2 lag to uPF |

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|---|--|--|---|--|
| | Electrical ceiling Type Fans and Regulators | Earthing Connections | IS 374: 1979 Clause 10.10 | 1 A to 30 A 5 mV AC to 220 mV AC 1V AC to 5 V AC |
| | | Protection against electric shock (For Regulator only) | IS 374: 1979 Clause 10.11 IS 302: 1979 Clause 8 | Qualitative |
| | | Moisture Resistance (for Regulators only) | IS 374: 1979 Clause 10.12 | 20 °C to 40 °C 90 % RH to 95 % RH |
| | | Suspension system | IS 374: 1979 Clause 10.14 | 1000 kg 10 Nm to 200 Nm 21 mm to 300 mm |
| | | Mechanical Endurance (for Regulators only) | IS 374: 1979 Clause 10.16 | Qualitative |
| | | Mechanical Strength (for Regulators only) | IS 374: 1979 Clause 10.13 IS 302: 1979 Clause 21 | Qualitative |
| 2. Electric Table Type Fans and Regulators | Protection Against Electric Shock | IS 555: 1979 Clause 10.11 | Qualitative | |
| | Insulation Resistance | IS 555: 1979 Clause 10.7.1 | 1 MΩ to 150 GΩ @ 500 V DC | |

**Nikhil Kumar
Convenor**

**N. Venkateswaran
Program Manager**

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|---------------|--|---|--|--|
| | Electric Table Type Fans and Regulators | Leakage current | IS 555: 1979 Clause 10.5 IS 302: 1979 Clause 13.2 | 99 μ A rms to 999 μ A rms |
| | | High Voltage | IS 555: 1979 Clause 10.6 | 0.50 kV AC to 5 kV AC |
| | | Creepage Distance and Clearances | IS 555: 1979 Clause 10.16 IS 302: 1979 Clause 29 | 0 to 25 mm |
| | | Starting | IS 555: 1979 Clause 10.8 | 15 V to 600 V |
| | | Fan Speed and input | IS 555: 1979 Clause 10.9 | 100 rpm to 60000 rpm 75 W to 3000 W 5 mA to 20 A 0.2 lag to uPF |
| | | Earthing Connections | IS 555: 1979 Clause 10.10 | 1 A to 30 A 1 V AC to 5 V AC 1 mV to 220 mV |
| | | Protection against electric shock (for Regulator only) | IS 555: 1979 Clause 10.11 IS 302: 1979 Clause 8 | Qualitative |
| | | Moisture Resistance (for Regulators only) | IS 555: 1979 Clause 10.12 | 20 $^{\circ}$ C to 40 $^{\circ}$ C 90 % RH to 95 % RH |

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|---------------|--|---|--|---|
| | Electric Table Type Fans and Regulators | Mechanical Endurance (for Regulators only) | IS 555: 1979 Clause 10.13 IS 302: 1979 Clause 21 | Qualitative |
| | | Cord Grip | IS 555: 1979 Clause 10.14 | Qualitative |

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