

<b>Laboratory</b>	<b>TUV SUD South Asia Pvt. Ltd., A-151, 2C Main Road, 2<sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka</b> Location 1: A-151, 2C Main Road, 2 <sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka Location 2: Kushal Garden Arcade, B- Block, 2 <sup>nd</sup> Floor, 1A, Peenya Industrial Area, 2 <sup>nd</sup> Phase, Bangalore, Karnataka		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
<b>Certificate Number</b>	<b>T-3010</b>	<b>Valid Until</b>	<b>24.08.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**Location 2**

**I. DOMESTIC ELECTRICAL APPLIANCES**

<b>1.</b>	<b>Vacuum Cleaner</b>	<b>Visual Inspection &amp; Manual tests</b>	<b>General Requirement</b>	Qualitative
			IEC 60335-1:2010 EN 60335-1:2012 IS 302 (Part 1): 2008 Cl. 7	
		Markings	Cl. 7	
		Accessible parts	Cl. 8	
		<b>Electrical Tests</b>	<b>Particular Requirement</b>	
			IEC 60335-2-2:2009 EN 60335-2-2:2010 IS 302-2-2:1997	
		Power Input & current	Cl. 10	1 mW to 3000 W (AC/DC) 0 to 20 A (AC, 50/60Hz)
		Leakage Current & Electric Strength	Cl. 13 & 16	30 $\mu$ A to 30 mA 0 to 5 kV (AC/DC) Time: 0.1sec to 200sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 $\Omega$
		<b>Thermal Requirements</b>		
		Heating (Temperature Rise Test)	Cl. 11	Amb. to +200°C

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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electrical Testing **Issue Date** 13.06.2014

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>Location 2</b>				
	<b>Vacuum Cleaner</b>	<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through Insulation	Cl. 29	0 to 300 mm
		Ball Pressure test	Cl. 30.1	0 to 300 mm
2.	<b>Electric Iron</b>	<b>Visual Inspection &amp; Manual tests</b>  Markings Accessible parts	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302 (Part 1): 2008 Cl. 7 Cl. 8	Qualitative
		<b>Electrical Tests</b>  Power Input & Current	<b>Particular Requirement</b> IEC 60335-2-3:2010 EN 60335-2-3:2002; A1:2005; A2:2008; A11:2010 IS 302-2-3:2007 Cl. 10	1 mW to 3000 W (AC/DC) 0 to 20A (AC, 50/60Hz)
		Leakage Current & Electric Strength	Cl. 13 & 16	30 $\mu$ A to 30 mA 0 to 5 kV (AC/DC) Time: 0.1 sec to 200 sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 $\Omega$

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
	<b>Electric Iron</b>	<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200°C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm
<b>3.</b>	<b>Toasters</b>	<b>Visual Inspection &amp; Manual tests</b>	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302: Part 1: 2008 Cl. 7	Qualitative
		Markings	Cl. 7	
		Accessible parts	Cl. 8	
			<b>Particular Requirement</b> IEC 60335-2-9:2002; A1:2004; A2:2006 EN 60335-2-9:2003; A1:2004; A2:2006; A12:2007; A13:2010 IS 302-2-9:2009	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
	<b>Toasters</b>	<b>Electrical Tests</b>		
		Power Input & current	Cl. 10	1mW to 3000W (AC/DC) 0 to 20 A (AC, 50/60Hz)
		Leakage Current & Electric Strength	Cl. 13 & 16	30 $\mu$ A to 30 mA 0 to 5 kV (AC/DC) Time: 0.1 sec to 200 sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 $\Omega$
		<b>Thermal Requirement</b>		
		Heating (Temperature rise Test)	Cl. 11	Amb. to +200°C
		<b>Insulation Requirement</b>		
		Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
<b>4.</b>	<b>Food Mixers</b>	<b>Visual Inspection &amp; manual tests</b>	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302: Part 1: 1979 Cl. 7 Cl. 8	Qualitative
		Markings Accessible parts		
		<b>Electrical Tests</b>	<b>Particular Requirement</b>	
		Power Input & current	IS 4250: 1980 Cl. 10	1mW to 3000W (AC/DC) 0 to 20A (AC, 50/60Hz)
		Leakage Current & Electric Strength	Cl. 13 & 16	30µA to 30mA 0 to 5kV (AC/DC) Time:0.1-200sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 Ω
		<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200°C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm

<b>Laboratory</b>	<b>TUV SUD South Asia Pvt. Ltd., A-151, 2C Main Road, 2<sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka</b> Location 1: A-151, 2C Main Road, 2 <sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka Location 2: Kushal Garden Arcade, B- Block, 2 <sup>nd</sup> Floor, 1A, Peenya Industrial Area, 2 <sup>nd</sup> Phase, Bangalore, Karnataka		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
<b>5.</b>	<b>Microwave Oven</b>	<b>Visual Inspection &amp; Manual tests</b>	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302: Part 1: 2008 Cl. 7 Cl. 8	Qualitative
		Markings Accessible parts		
		<b>Electrical Tests</b>	<b>Particular Requirement</b> IEC 60335-2-25:2010 EN 60335-2-25:2012 IS 302-2-25:2008 Cl. 10	1 mW to 3000W (AC/DC) 0 to 20 A (AC, 50/60 Hz)
		Power Input & Current		
		Leakage Current & Electric Strength	Cl. 13 & 16	30 $\mu$ A to 30 mA 0 to 5 kV (AC/DC) Time: 0.1 to 200 sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 $\Omega$
		<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200°C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm

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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electrical Testing **Issue Date** 13.06.2014

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>Location 2</b>				
6.	Electronic Clocks	Visual Inspection & Manual tests	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302: Part 1: 2008 Cl. 7 Cl. 8	--
		Markings Accessible parts	<b>Particular Requirement</b> IEC 60335-2-26:2002; A1:2008 IS 302: Part 2: Sec 26: 1994 Cl. 10	1 mW to 3000 W (AC/DC) 0 to 20 A (AC, 50/60Hz)
		<b>Electrical Tests</b>		
		Power Input & current	Cl. 10	
		Leakage Current & Electric Strength	Cl. 13 & 16	30 $\mu$ A to 30 mA 0 to 5 kV (AC/DC) Time: 0.1 sec to 200 sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 $\Omega$
		<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200°C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
<b>7.</b>	<b>Room Heater</b>	<b>Visual Inspection &amp; Manual tests</b>	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302: Part 1: 2008 Cl. 7 Cl. 8	Qualitative
		Markings Accessible parts		
		<b>Electrical Tests</b> Power Input & current	<b>Particular Requirement</b> IEC 60335-2-30:2009 EN 60335-2-30:2009, A 11:2012 IS 302-2-30 Cl. 10	1mW to 3000W (AC/DC) 0 to 20A (AC, 50/60Hz)
		Leakage Current & Electric Strength	Cl. 13 & 16	30µA to 30mA 0 to 5kV (AC/DC) Time: 0.1 to 200sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 Ω
		<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200 °C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm



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<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
<b>8.</b>	<b>Table top fan</b>	<b>Visual Inspection &amp; Manual Tests</b>	<b>General Requirement</b> IEC 60335-1:2010 EN 60335-1:2012 IS 302 (Part 1): 2008 Cl. 7 Cl. 8	Qualitative
		Markings Accessible parts	Cl. 7 Cl. 8	
		<b>Electrical Tests</b>	<b>Particular requirement</b> IEC 60335-2-80 EN 60335-2-80 IS 302-2-80 Cl. 10	1mW to 3000W (AC/DC) 0 to 20A (AC, 50/60Hz)
		Power Input & current	IS 302-2-80 Cl. 10	
		Leakage Current & Electric Strength	Cl. 13 & 16	30µA to 30mA 0 to 5kV (AC/DC) Time: 0.1 to 200 sec
		Protective Earthing Resistance (Provision for Earthing)	Cl. 27	Upto 1 Ω
		<b>Thermal Requirements</b> Heating (Temperature rise Test)	Cl. 11	Amb to +200°C
		<b>Insulation Requirements</b> Clearances and Creepage Distances, and Distances through insulation	Cl. 29	0 to 300 mm
		Ball pressure test	Cl. 30.1	0 to 300 mm

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
<b>9.</b>	<b>Electrical Equipment for Measurement, Control and Laboratory use</b>	<b>Visual Inspection &amp; Manual tests</b>	IEC 61010-31:2008 Edition 1.1 EN 61010-1:2010	Qualitative
		Markings	Cl. 5.0	
		Accessible parts	Cl. 6.2	
		Terminals for external circuits	Cl. 6.6.2	
		Circuits with terminals which are hazardous live	Cl. 6.6.3	
		Terminals for stranded conductors	Cl. 6.6.4	
		Constructional requirements	Cl. 6.9.1, 6.9.2 & 6.9.3	
		Requirements according to type of equipment	Cl. 6.11.3.1, 6.11.3.2	
		Requirements for the disconnecting devices	Cl. 6.11.4	

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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electrical Testing **Issue Date** 13.06.2014

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>Location 2</b>				
	<b>Electrical Equipment for Measurement, Control and Laboratory use</b>	Test for fuse holders	IEC 61010-31: 2008 Edition 1.1 EN 61010-1:2010 Cl.14.4	--
		Mains voltage selection devices	Cl.14.5	
		<b>Electrical tests</b>		
		Power Input & Current	Cl.5.1.3	1mW to 3000W (AC/DC) 0 to 20A (AC, 50/60Hz)
		Protective Bonding impedance	Cl.6. 5.2.4 & 6.5.2.5	Upto 1 Ω
		Dielectric strength/High Voltage test	Cl.6.8, 6.8.3 6.8.3.1 & 6.8.3.2	0 to 5 kV (AC/DC) Time: 0.1 to 200 sec
		Capacitance Discharge	Cl.6.10.3	Upto 100 V
		Voltage measurements of accessible parts	Cl.6.3	Upto 400 V
		Current measurements of accessible parts	Cl.6.3	Upto 400 mA
		<b>Insulation requirements</b>		
	Creepage distances, clearances and Comparative tracking Index	Cl.6.7, 10.5.1	0 to 300 mm	

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**Location 2**

**Electrical Equipment for Measurement, Control and Laboratory use**

Ball pressure test	IEC 61010-31: 2008 Edition 1.1 EN 61010-1:2010 Cl.10.5.3	0 to 300 mm
<b>Humidity conditioning</b> Humidity test	Cl.6.8.2	-40 to +180 °C Upto 95% RH
<b>Thermal requirements</b> Temperature rise Test	Cl.10	Amb to +200 °C
<b>Mechanical requirements</b> Impact Test	Cl.8.2.2	Steel sphere: Mass: 500 g dia: 50 mm

**II. LAMPS, LUMINARIES AND ACCESSORIES**

<b>1. Table Lamps &amp; Floor Lamps</b>	<b>Visual Inspection &amp; Manual tests</b>  Marking Accessible parts	<b>General Requirement</b> IEC 60598-1 Cl. 3 Cl. 8 <b>Particular Requirement</b> IEC 60598-2-4 IEC 60598-2-1	Qualitative
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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>13.06.2014</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>Location 2</b>				
	<b>Table Lamps &amp; Floor Lamps</b>	<b>Electrical tests</b>	<b>General Requirement</b>	
		Protective Earthing resistance	IEC 60598-1 Cl.7	Upto 1 $\Omega$
		Insulation Resistance Test & Electric Strength Test	<b>Particular Requirement</b> IEC 60598-2-4 IEC 60598-2-1 Cl.10.2	IR: 0.1 M $\Omega$ to 1 G $\Omega$ 0 to 5 kV Time: 0.1 to 200 sec
		<b>Thermal requirements</b>		
		Temperature rise test	Cl.12.4 & 12.5	Amb to +200°C
		<b>Thermal conditioning</b>		
	Humidity test	Cl.9.3	-40 to +180 °C Upto 95% RH	
	<b>Insulation requirement</b>			
	Creepage and clearances	Cl.11.2	0 to 300 mm	
	Ball pressure test	Cl.13.2.1	0 to 300 mm	

**Laboratory** TUV SUD South Asia Pvt. Ltd., A-151, 2C Main Road, 2<sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka  
 Location 1: A-151, 2C Main Road, 2<sup>nd</sup> Stage, Peenya Industrial Estate, Bangalore, Karnataka  
 Location 2: Kushal Garden Arcade, B- Block, 2<sup>nd</sup> Floor, 1A, Peenya Industrial Area, 2<sup>nd</sup> Phase, Bangalore, Karnataka

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electrical Testing **Issue Date** 13.06.2014

**Certificate Number** T-3010 **Valid Until** 24.08.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**Location 2**

**III. ELECTRICAL MATERIALS**

1.	<b>Insulating Material</b>	Needle Flame Test	IEC 60695-11-5:2004 IS 11000 (Part 2 / Sec2) 2008	Flame height: Upto 12mm Flame exert angle: Adjustable: 0°, 20°, 45° Temp: 100 to 800°C Time: 0.1 to 200 sec
		Glow wire Test	IEC 60695-2-10:2013 IS 11000 (Part 2 / Sec1) 2008	0 to 200 sec Upto 960°C 1 N

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