

<b>Laboratory</b>	<b>IFB Testing Laboratory, L-1, Verna Electronic City, Verna Salcette, Goa</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electrical Testing</b>	<b>Issue Date</b>	<b>28.03.2014</b>
<b>Certificate Number</b>	<b>T-2895</b>	<b>Valid Until</b>	<b>27.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 6</b>

<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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#### **I. DOMESTIC ELECTRICAL APPLIANCES**

<b>1.</b>	<b>Domestic Electric Clothes Washing Machine &amp; Tumble Dryers</b>	Protection against access to live parts	IEC 60335-1:2010, Clause 8 EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	Qualitative
		Power Input & Current	IEC 60335-1:2010, Clause 10 EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	Upto 10 kW 0.001W

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<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 6</b>

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	<b>Domestic Electric Clothes Washing Machine &amp; Tumble Dryers</b>	Electrical insulation & Leakage Current at operating temperature	IEC 60335-1:2010, Clause 13 EN 60335-1:2012 IS 302 (Part 1): 2008 IEC 60335-2-7 :2012 IEC 60335-2-11: 2012 IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	Electrical strength test: 1 kV to 5 kV  Leakage current test: 30 mA 1 $\mu$ A
		Insulation resistance & Electric Strength	IEC 60335-1:2010, Clause 16 EN 60335-1:2012 IS 302 (Part 1): 2008 IEC 60335-2-7 :2012 IEC 60335-2-11: 2012 IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	IR tests: Upto 600 V DC at 1M $\Omega$ 0.5 to 5000 M $\Omega$ at 500 V DC Electrical strength test: 0 to 5 kV 0.01 mA

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<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 6</b>

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	<b>Domestic Electric Clothes Washing Machine &amp; Tumble Dryers</b>	Moisture resistance	IEC 60335-1:2010, Clause 15 EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	IPX3/IPX4
		Stability & Mechanical strength(10 deg. Tilt test )	IEC 60335-1:2010, Clause 20  EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	Till 15° Angle

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<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 6</b>

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	<b>Domestic Electric Clothes Washing Machine &amp; Tumble Dryers</b>	Mechanical Strength (Spring Impact hammer)	IEC 60335-1:2010, Clause 21  EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	Impact energy of 0.5 J
		Protective Earthing Resistance	IEC 60335-1:2010, Annex A  EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012  IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	0 to 25A 0.001 to 1.2 Ω 0.001Ω

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<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 6</b>

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	<b>Domestic Electric Clothes Washing Machine &amp; Tumble Dryers</b>	Clearances and Creepage Distances	IEC 60335-1:2010, Clause 29 EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012 IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	150 mm 1mm
		Temperature rise	IEC 60335-1:2010, Clause 11 EN 60335-1:2012 IS 302 (Part 1): 2008  IEC 60335-2-7 :2012 IEC 60335-2-11: 2012  IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	20 to 300°C 1°C
		Abnormal Operation	IEC 60335-1:2010, Clause 19 EN 60335-1:2012 IS 302 (Part 1): 2008 IEC 60335-2-7 :2012 IEC 60335-2-11: 2012 IS 302 (Part 2/ Sec 7): 2010 IS 302 (Part 2/ Sec 11): 1994	20 to 300°C 1°C

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**Last Amended on** - **Page** 6 of 6

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	Domestic Electric Clothes Washing Machine & Tumble Dryers	Marking durability	IEC 60335-1:2010, Clause 7 EN 60335-1:2012 IS 302 (Part 1): 2008 IEC 60335-2-7 :2012 IEC 60335-2-11: 2012 IS 302 (Part 2/ Sec. 7): 2010 IS 302 (Part 2/ Sec. 11): 1994	Qualitative

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