

Laboratory	UL India Pvt. Ltd, 413, Sector 8, IMT Manesar, Gurgaon, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	05.08.2014
Certificate Number	T-2234	Valid Until	04.08.2016
Last Amended on	-	Page	1 of 4

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. ENVIRONMENTAL TEST FACILITY				
1.	Electrical Enclosure	Ingress Protection, Electrical Products (1st Numeral: 1X to 6X and 2nd Numeral X3 to X8)	IS/IEC-60529-Edition 2.1 – 2001-02 IS 10322-(Part-IV)-1984	IP1X/2X/3X/4X/5X/6X IPX3/X4/X5/X6/X7/X8 Dust chamber size: 3M (L)×3M(H) × 2M(D) Post Confirmatory Test (1) High Voltage 0.1 to 5 kV/0.01kV (2) Insulation Resistance 50 to 1200V DC 0.100 to 9999 MΩ
II. DOMESTIC ELECTRICAL APPLIANCES				
1.	Household Refrigerator (Frost Free & Direct Cool)	i) Determination of linear dimensions, volumes and areas	IS 15750 : 2006 IS1476 (Part-1):2000 AS/NZS 4474.1:2007 SASO 2664:2013 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Up to 1000 mm, Digital Vernier:- 0 to 150 mm / 0.02 mm b) Scale:- 0 to 300 mm / 0.5 mm
		ii) Testing the air tightness of door lid seal(s)	IS 15750 : 2006 IS-1476 (Part-1):2000 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Digital Micrometer:- 0 to 25 mm / 0.001 mm b) Scale:- 0 to 300 mm / 0.5 mm
		iii) Testing the mechanical strength of shelves and similar components	IS 15750 : 2006 IS-1476 (Part-1):2000 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Cylindrical weight:- 0 to 1 kg & 0 to 0.5 kg / N.A.

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Last Amended on	-	Page	2 of 4

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	Household Refrigerator (Frost Free)	iv) Testing the storage temperatures	Cl-12 As per IS 15750 : 2006 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C b) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C
	Household Refrigerator (Frost Free & Direct Cool)	v) Water vapour condensation test	IS 15750 : 2006 IS 1476 (Part-1):2000 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C b) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C
	Household Refrigerator (Frost Free & Direct Cool)	vi) Energy consumption test	IS 15750 : 2006 IS 1476 (Part-1):2000 AS/NZS 4474.1:2007 SASO 2664:2013 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Power Analyzer:- kWh: 0 to 9,99,999 / 0.001 kWh b) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C c) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C
		vii) Pull down test	IS 15750 : 2006 IS 1476 (Part-1):2000 AS/NZS 4474.1:2007	Up to 800 L a) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C b) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C
		viii) Ice making test (if applicable)	Cl-17 As per IS 15750 : 2006 IS-1476 (Part-1):2000 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C b) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C c) Measuring cylinder:- 0 to 100 ml / 1 ml

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Last Amended on	-	Page	3 of 4

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2.	Household Refrigerator (Frost Free & Direct Cool)	ix) Test for absence of odour and taste	CI-18 As per IS 15750 : 2006 IEC 62552:2007 ISO 15502:2005	Up to 800 L a) Test Room:- +10 ⁰ C to +43 ⁰ C / 0.1 ⁰ C b) Temp. Sensors:- -20 ⁰ C to +50 ⁰ C / 0.1 ⁰ C c) Measuring cylinder:- 0 to 100 ml / 1 ml
		x) High voltage test	CI-19 As per IS 15750 : 2006 IS 1476(Part -1):2000	Up to 800 L a) HV tester 0 to 5 kV / 0.1 kV
		xi) Insulation Resistance test	CI-20 As per IS 15750 : 2006 IS 1476(Part -1):2000	Up to 800 L Up to 9999 MΩ
		xii)No load Adjustment test	CI-14.4 As per IS-1476 (Part -1):2000	Up to 800 L Up to 800 L a)Temperature Sensor:- -20 ⁰ C to 50 ⁰ C/0.1 ⁰ C b)test room:-+10 ⁰ C to + 43 ⁰ C
		xiii)Tropical Climate Test	SASO 2664:2013	Up to 800 L a) Temperature Sensor:- -20 ⁰ C to + 50 ⁰ C/0.1 ⁰ C b) test room:-10 ⁰ C to 43 ⁰ C
3.	Electrical Water Heater	Rated capacity	IS 2082-1993 (Clause No. 15)	2 to150 L
		Input (Power consumption)	IS 302-2-21-1992 (Clause No. 10)	0.1to 10kW 1mA to 20A 0.001 to 600V

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Last Amended on	-	Page	4 of 4

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	Electrical Water Heater	Standing loss per 24hour test	IS 2082-1993 (Clause No. 16)	0.1 to 10kW 1mA to 20A 0.001 to 600V

-X-X-X-X-X-X-X-X-X-X-X-X-