

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **Precision Laboratories LLP**

E-267,268 Siddhi Industrial Park, Opp. Gujarat Udhyanagar, Bardolpura,  
Ahmedabad-380004, Gujarat, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2023/0022**

(Date of First Accreditation: 31 Aug 2023 - 30 Aug 2025)

Valid from: 31 August 2025

Valid until: 30 August 2027

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic and Resins</b>		
1.	Plastic Materials and Articles, Caps, Closures and Lids of Bottles, Jars and Cups, Preforms	Colour migration	IS 9845: 1998
2.		Water potability test for odour	IS 3025 (P-5): 2018
3.		Water potability test for taste	IS 3025 (P-8): 2023
4.		Overall migration (Extractive) / Overall migration (Volume)	IS 9845: 1998
5.		Overall migration (Surface)	IS 9845: 1998
6.		Specific migration antimony	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
7.		Specific migration barium	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
8.		Specific migration cobalt	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
9.		Specific migration copper	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019

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	<b>Plastic and Resins</b>		
10.	Plastic Materials and Articles, Caps, Closures and Lids of Bottles, Jars and Cups, Preforms	Specific migration iron	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
11.		Specific migration lithium	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
12.		Specific migration manganese	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
13.		Specific migration zinc	SOP No.: PL/SOP/7.2/C-001, Issue No. 1, Date 01.06.2023 based on IS 3025 Part-2: 2019
14.		Specific migration-phthalic acid, bis (2-ethylhexyl) ester DEHP	SOP No.: PL/SOP/7.2/C-002, Issue No. 1, Date 01.06.2023 based on ISO 18856: 2004
15.		Identification of material	SOP No.: PL/SOP/7.2/M-001, Issue No. 1, Date 01.06.2023 based on ASTM E 1252-98



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Hazardous and Restricted Chemicals</b>		
1.	Toys and Similar Products	Migration of elements antimony (Sb)	IS 9873 (P-3): 2020
2.		Migration of elements arsenic (As)	IS 9873 (P-3): 2020
3.		Migration of elements barium (Ba)	IS 9873 (P-3): 2020
4.		Migration of elements cadmium (Cd)	IS 9873 (P-3): 2020
5.		Migration of elements chromium (Cr)	IS 9873 (P-3): 2020
6.		Migration of elements lead (Pb)	IS 9873 (P-3): 2020
7.		Migration of elements mercury (Hg)	IS 9873 (P-3): 2020
8.		Migration of elements selenium (Se)	IS 9873 (P-3): 2020
9.		Phthalate esters in toys and children's products - Di n Butyl phthalate	



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	Hazardous and Restricted Chemicals		
10.	Toys and Similar Products	Phthalate esters in toys and children's products -Benzyl butyl phthalate	IS 9873 (P-9): 2017
11.		Phthalate esters in toys and children's products - Bis (2-ethylhexyl phthalates)	IS 9873 (P-9): 2017
12.		Phthalate esters in toys and children's products - Di-n- Octyl phthalate	IS 9873 (P-9): 2017
13.		Phthalate esters in toys and children's products - Di isoNonyl phthalate	IS 9873 (P-9): 2017
14.		Phthalate esters in toys and children's products - Di isoDecyl phthalate	IS 9873 (P-9): 2017



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	<b>Plastics and Plastic Products</b>		
1.	Packaging and Containers (Containers, Jar, Bottles and Cups)	Brimful capacity	IS 2798: 1998: Cl. 5
2.		Design, shape and dimension	IS 15410: 2003: CL. 4.2
3.		Drop test	IS 2798: 1998: CL 8
4.		Leakage test air pressure	IS 2798: 1998: CL 6.3
5.		Leakage test closure	IS 2798: 1998: CL 6.1
6.		Leakage test vibration	IS 2798: 1998: CL.6.2
7.		Manufacture, workmanship, finish and appearance	IS 15410: 2003: CL: 4.3
8.		Nominal capacity	IS 15410: 2003: CL. 4.4
9.		Transparency	IS 15410: 2003: Annex A
10.		Wall thickness bottom	IS 2798: 1998: CL. 4.5
11.		Wall thickness middle	IS 2798: 1998: CL. 4.5
12.		Wall thickness top	IS 2798: 1998: CL. 4.5

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
1.	Adhesives for Ceramic Tiles	Tensile adhesion strength - Dry Condition	IS 15477: 2019 – Annexure A
2.		Tensile adhesion strength - Wet Condition	IS 15477: 2019– Annexure A
3.		Shear adhesion strength - Dry Condition	IS 15477: 2019 – Annexure B
4.		Shear adhesion strength - wet Condition	IS 15477: 2019 - Annexure B
5.		Shear adhesion strength - Heat Aging Condition	IS 15477: 2019 - Annexure B
6.		Open time	IS 15477: 2019 - Annexure C
7.		Adjust time	IS 15477: 2019- Annexure D
8.		Slip	IS 15477: 2019- Annexure E
9.		Deformability	IS 15477: 2019 - Annexure F



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
1.	Toys Expanding Material, Mouth Actuated toys, Aquatic toys and Inflatable toys, Toys	Small part test	IS 9873 (Part-01)-2019 Clause 5.2 (Clause 4.3.2,4.4, 4.18.3,4.26,4.31)
2.	other than Magnetic/Electrical Experimental Sets., Toys	Test for shape and size of certain toys	IS 9873 (Part-01)-2019 Clause 5.3 (Clause 4.5.1)
3.	Magnetic/Electrical experimental sets., Toys attached to Food, General Requirement, Soft Filled Toys, Projectile Toys with Stored Energy, Toys Magnet and Magnetic Components	Small balls test	IS 9873 (Part-01)-2019 Clause 5.4 (Clause 4.5.2)
4.	Toys Pompom	Test for pompoms (Tension test for Pompoms - Choking Hazards)	IS 9873 (Part-01)-2019 Clause 5.5 (Clause 4.5.3)
5.	Toys Pre-School Play Figures	Test for pre-school play figures	IS 9873 (Part-01)-2019 Clause 5.6 (Clause 4.5.4)
6.	Toys glass, Toys points and metallic wires, Toys Protruding parts, Toys Driving Mechanism Toys Mask and helmets, Toys strength, General	Accessibility of a part or component	IS 9873 (Part-01)-2019 Clause 5.7

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
	requirement, Toys metal wires and rods		
7.	Toys glass, Toys Edges, Toys Protruding parts, Toys Driving Mechanism, Toys Mask and helmets, Toys strength, General requirement, Toys Metal Wires and Rods, Toys Metal edges, Toys Wire frame, Toys Plastic edges, Toys Wood, Toys Glass	Sharp-edge test	IS 9873 (Part-01)-2019 Clause 5.8 (Clause 4.6, 4.9, 4.30.3)
8.	Toys glass, Toys points and metallic wires, Toys Protruding parts, Toys Driving Mechanism, Toys Mask and Helmets, Toys strength, General Requirement, Toys Metal Wires and Rods	Sharp-point test	IS 9873 (Part-01)-2019 Clause 5.9 (Clause 4.7)
9.	Flexible Plastic Sheeting, Plastic sheeting, Toys Packaging, Plastic Film or Plastic Bags in	Plastic sheeting, determination of thickness of plastic film and sheeting	IS 9873 (Part-01)-2019 Clause 5.10 (Clause 4.10)

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Mechanical Testing			
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	<b>Toys and Similar Products</b>		
	Packaging and in Toys, Flexible Film Bags		
10.	Cross Sectional Dimension of Certain Toys, Cords Connected to a Self-Retraction Mechanism and Cords in Pull along Toys, Toys Cords and Elastics, Toys Cords Strap and Elastics, Strap Intended to be Worn Fully or Partially around the Neck.	Test for loops and cords	IS 9873 (Part-01)-2019 Clause 5.11 (Clause 4.11)
11.	Rocking Horse and Similar Toys, Toys Not Propelled by a Child, Heavy Immobile Toys, Ride on Toys, Toys Seats	Test for stability, Test for overload	IS 9873 (Part-01)-2019 Clause 5.12 (Clause 4.15)
12.	Toys Enclosures, Toys Chest, Toys Closures, Toys Confined Spaces	Test for closures and toy chest lids	IS 9873 (Part-01)-2019 Clause 5.13 (Clause 4.16)
13.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and helmets, Toys Small Ball, Toys other than Magnetic/Electrical	Impact test	IS 9873 (Part-01)-2019 Clause 5.14 (Clause 4.17)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
	Experimental Sets, all other Toys with Magnets and Magnetic Components, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Toys as Simulated Protective Equipment such as Helmets, Hats and Goggles, Toys that Cover the Face		
14.	Projectile Toys, Energy Limitation, Bows and Arrows, Rotors and Propellers,	Kinetic energy of projectile	IS 9873 (Part-01)-2019 Clause 5.15.1 (Clause 4.18)
15.	Projectile with a Protective Cap, Cover or Tip, Projectile Toys with Stored Energy	Wall impact test of projectile	IS 9873 (Part-01)-2019 Clause 5.15.2 (Clause 4.18)
16.	Toys & Similar Products	Free-wheeling facility and brake performance test	IS 9873 (Part-01)-2019 Clause 5.16
17.		Determination of speed of electrically driven ride-on toys.	IS 9873 (Part-01)-2019 Clause 5.17



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
18.	Toys Containing heat source, Toys Containing Non-Electrical Heat Source	Determination of temperature increases	IS 9873 (Part-01)-2019 Clause 5.18 (Clause 4.24)
19.	Liquid Filled Toys	Leakage of liquid-filled toys	IS 9873 (Part-01)-2019 Clause 5.19 (Clause 4.25)
20.	Mouth Actuated Toys and other Toys intended to be put in the Mouth, Mouth Actuated Projectile Toys	Durability of mouth-actuated toys	IS 9873 (Part-01)-2019 Clause 5.20 (Clause 4.26)
21.	Toys Expanding Materials	Dimensional Expansion	IS 9873 (Part-01)-2019 Clause 5.21 (Clause 4.3.2)
22.	Toys Folding and Sliding Mechanisms, Hinges, Toys Push Chairs, Perambulators and Similar Toys, Toys with Safety Stops or Locking Devices	Folding or sliding mechanisms	IS 9873 (Part-01)-2019 Clause 5.22 (Clause 4.12)
23.	Toys & Similar Products	Washable toys	IS 9873 (Part-01)-2019 Clause 5.23
24.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and helmets, Toys small ball, Toys	Drop Test	IS 9873 (Part-01)-2019 Clause 5.24.2 (Clause 4.2)

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	<b>Toys and Similar Products</b>		
	other than Magnetic/Electrical Experimental Sets, Toys Attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup		
25.	Toys Driving Mechanism, Toys Small Ball, Toys Other Than Magnetic/Electrical Experimental Sets, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Large and Bulky Toys	Tip Over test	IS 9873 (Part-01)-2019 Clause 5.24.3
26.	Toys Strength, Wheeled ride on Toys other than Scooter	Dynamic strength	IS 9873 (Part-01)-2019 Clause 5.24.4
27.	Toys Expanding Material, Toys Mouth Actuated Toys, Mask & Helmets, Toys Projectile, Aquatic Toys and Inflatable Toys, Toys Small Balls, Toys other Than Magnetic/Electrical Experimental Sets., Toys Attached to Food, General	Torque Test	IS 9873 (Part - 01)- 2019 Clause 5.24.5

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
	Requirement, Small Ball, Hemispheric shaped toys, Toys suction cup, Toys Packaging		
28.	Toys Expanding Material, Toys Mouth Actuated toys, Mask & Helmets, Toys Projectile, Aquatic toys and Inflatable toys, Toys Plastic sheeting, Toys Small Balls, Magnets, Toys other than Magnetic/ Electrical Experimental Sets., Flying Toys, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Toys Packaging, Soft Filled Toys, Protruding Parts, Toys Projections, Toys Metal Wires and Rods, Stuffed and Beanbag type Toys	Tension Test	IS 9873 (Part-01)-2019 Clause 5.24.6 (Clause 4.8, 4.9, 4.18)
29.	Toys Expanding Material, Toys Mask and Helmets, Toys small Ball, Toys other than	Compression test	IS 9873 (Part-01)-2019 Clause 5.24.7

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	<b>Toys and Similar Products</b>		
	Magnetic/Electrical experimental sets, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup		
30.	Toys Points and Metallic Wires, Toys Metal Wires and Rods, Toys Wires or Rods	Flexure test	IS 9873 (Part-01)-2019 Clause 5.24.8 (Clause 4.9)
31.	Acoustics Toys	Determination of sound pressure levels	IS 9873 (Part-01)-2019 Clause 5.25 (Clause 4.29)
32.	Toy Scooters	Test for toy scooters, Toy scooters Strength, steering tubes, Scooters Braking	IS 9873 (Part-01)-2019 Clause 5.26 (Clause 4.30)
33.		Test for toy scooters, Toy scooters Strength, steering tubes, Scooters Braking	IS 9873 (Part-01)-2019 Clause 5.27 (Clause 4.30)
34.		Test for toy scooters, Toy scooters Strength, steering tubes, Scooters Braking	IS 9873 (Part-01)-2019 Clause 5.28 (Clause 4.30)
35.		Test for toy scooters, Toy scooters Strength, steering tubes, Scooters Braking	IS 9873 (Part-01)-2019 Clause 5.29 (Clause 4.30)

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	<b>Toys and Similar Products</b>		
36.		Test for toy scooters, toy scooters strength, steering tubes, scooters braking	IS 9873 (Part-01)-2019 Clause 5.30 (Clause 4.30)
37.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and Helmets, Toys Small Ball, Toys other than Magnetic/Electrical Experimental Sets, all other Toys with Magnets and Magnetic Components, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Toys as Simulated Protective Equipment such as Helmets, Hats and Goggles, Toys that cover the Face	Tension test for magnets	IS 9873 (Part-01)-2019 Clause 5.31 (Clause 4.31.2 c)
38.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and Helmets, Toys Small Ball, Toys other than Magnetic/Electrical	Magnetic flux index	IS 9873 (Part-01)-2019 Clause 5.32 (Clause 4.31.1, 4.31.2)

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39.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and Helmets, Toys Small Ball, Toys other than Magnetic/Electrical Experimental Sets, all other Toys with Magnets And Magnetic Components, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Toys as Simulated Protective	Impact test for magnets	IS 9873 (Part-01)-2019 Clause 5.33 (Clause 4.31.2.C)

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# Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Precision Laboratories LLP**

E-267,268 Siddhi Industrial Park, Opp. Gujarat Udhyognagar,  
Bardolpura, Ahmedabad-380004, Gujarat, India

QAI/CIA/TL/2023/0022

Date of First Accreditation: 31 August 2023- 30 August 2025

Valid from: 31 August 2025

Valid until: 30 August 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
	Equipment Such as Helmets, Hats and Goggles, Toys that Cover the Face		
40.	Toys Glass, Toys Expanding Material, Toys Driving Mechanism, Toys Mask and Helmets, Toys Small Ball, Toys other than Magnetic/Electrical Experimental Sets, all other Toys with Magnets and Magnetic Components, Toys attached to Food, General Requirement, Hemispheric Shaped Toys, Toys Suction Cup, Toys as Simulated Protective Equipment Such as Helmets, Hats and Goggles, Toys that Cover the Face	Soaking test for magnets	IS 9873 (Part-01)-2019 Clause 5.34 (Clause 4.31.2 b)
41.	Projectile toys, Energy limitation, Bows and Arrows,	Determination of projectile range	IS 9873 (Part-01)-2019 Clause 5.35 (Clause 4.18, 4.19),
42.	Rotors and propellers, Projectile with a Protective	Tip assessment of rigid projectile	IS 9873 (Part-01)-2019 Clause 5.36 (Clause 4.18.2)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
43.	cap, cover or tip, Projectile toys with stored energy	Length of suction cup projectile	IS 9873 (Part-01)-2019 Clause 5.37 (Clause 4.18.2)
44.	Toys Yo Yo balls	Yo-Yo ball measurements	IS 9873 (Part-01)-2019 Clause 5.38 (Clause 4.32)
45.	Toy Pacifiers	Test for toy pacifiers	IS 9873 (Part - 01) Clause 4.5.5: 2019
46.	Aquatic Toys	Test for aquatic toys	IS 9873 (Part - 01) (Clause 4.20): 2019
47.	Solids and Soft Toys, Beards, Moustaches etc., Toys to be Worn on Head, Toys Disguise Costume and Toy Intended to be entered	General requirement, beards, moustaches etc., toys to be worn on head, toys disguise costume and toy intended to be entered, soft filled toys	IS 9873 (Part - 02)-2017 Clause 4.5
48.		General requirement, beards, moustaches etc., toys to be worn on head, toys disguise costume and toy intended to be entered, soft filled toys	IS 9873 (Part - 02)-2017 Clause 5.1, 5.5 (Clause 4.1)
49.		General requirement, beards, moustaches etc., toys to be worn on head, toys disguise costume and toy intended to be entered, soft filled toys	IS 9873 (Part - 02)-2017 Clause 5.2, 5.3, 5.4 (Clause 4.2, 4.3, 4.4)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
50.		Test for soft filled toys	IS 9873 (Part - 02) Clause 5.5 (Clause 4.5): 2017
51.	Safety of Electric Toys	Needle Flame Test	Annex B-IS 15644:2006 +A1 (RA 2016)
52.		Component	Clause 16 IS 15644:2006 +A1 (RA 2016)
53.		Radiation, toxicity and similar hazards	Clause 20 IS 15644:2006 +A1 (RA 2016)
54.		Toys incorporating lasers and light emitting diodes	Annex E-IS 15644:2006 +A1 RA 2016
55.		Clearance and creepage distance	IS 15644:2006 +A1 (RA 2016) Clause 18.0
56.		Construction	IS 15644:2006 +A1 (RA 2016) Clause 14.0
57.		Criteria for reduced testing	IS 15644:2006 +A1 (RA 2016) Clause 6.0, 6.2.
58.		Electric Strength	IS 15644:2006 +A1 (RA 2016) Clause 10.0
59.		Electric Strength at room temperature	IS 15644:2006 +A1 (RA 2016) Clause 12.0: 2006
60.		Heating & abnormal operation	IS 15644:2006 +A1 (RA 2016) Clause 9.0

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Toys and Similar Products</b>		
61.	Safety of Electric Toys	Marking & instructions	IS 15644:2006 +A1 (RA 2016) Clause 7.0
62.		Mechanical strength	IS 15644:2006 +A1 (RA 2016) Clause 13.0
63.		Moisture resistance	IS 15644:2006 +A1 (RA 2016) Clause 11.0
64.		Power input	IS 15644:2006 +A1 (RA 2016) Clause 8.0
65.		Protection of cords and wires	IS 15644:2006 +A1 (RA 2016) Clause 15.0
66.		Resistance to heat and fire	IS 15644:2006 +A1 (RA 2016) Clause 19.0
67.		Screw and connections	IS 15644:2006 +A1 (RA 2016) Clause 17.0

