

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### Indian Testing Laboratory Private Limited

(Name change from Indian Testing Laboratory to Indian Testing Laboratory Private Limited w.e.f. 09 April 2025)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida,  
Gautam Budh Nagar-201306, Uttar Pradesh, 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/2024/0075**

Valid from: 11 September 2024

Valid until: 10 September 2026

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

**Prof. Vikram Kumar**  
Chair, CIA



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(Name change w.e.f.: 09 April 2025)

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
1.	Hardened concrete	Compressive strength- Core/Cube	IS 516 (Part 4): 2018 / IS 516: (P-1/S-1) 2021
2.	Aggregate (Coarse & Fine)	Bulk density	IS 2386 (Part 3): 1963, (RA-2016)
3.	Aggregate (Coarse & Fine)	Impact value	IS 2386 (Part 4): 1963, (RA-2016)
4.	Aggregate (Coarse & Fine)	Sieve analysis, Material passing through IS sieve, %	IS 2386 (Part 1): 1963, (RA-2016)
5.	Cement (OPC/PPC/PSC)	Compressive strength	IS 4031 (Part 6): 1988
6.	Cement (OPC/PPC/PSC)	Fineness of Blaine's air permeability	IS 4031 (Part 2): 1999
7.	Cement (OPC/PPC/PSC)	Setting time	IS 4031 (Part 5): 1988
8.	Concrete paving blocks	Dimensions	IS 15658: 2021
9.	Concrete paving blocks	Compressive strength	IS 15658: 2021
10.	Concrete paving Blocks	Water absorption	IS 15658: 2021
11.	Adhesives for use with ceramic, mosaic and stone tiles	Open time	IS 15477:2019

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1 of 273

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
12.	Adhesives for use with ceramic, mosaic and stone tiles	Adjustment times	IS: 15477:2019
13.	Masonry units- Autoclaved cellular aerated concrete blocks	Dimensions	IS 2185 (Part 3): 1984, (RA 2020)
14.	Masonry units- Autoclaved cellular aerated concrete blocks	Block density	IS 6441 (P-1): 1972, (RA 2022)
15.	Masonry units- Autoclaved cellular aerated concrete blocks	Compressive strength	IS 6441 (Part 5): 1972, (RA 2022)
16.	Ceramic tiles (Vitrified/Glazed/Unglazed)	Dimensions	IS 13630 (Part 1): 2019
17.	Ceramic tiles (Vitrified/Glazed/Unglazed)	Modulus of rupture	IS 13630 (Part 6): 2019
18.	Ceramic tiles (Vitrified/Glazed/Unglazed)	Water absorption	IS 13630 (Part 2): 2019
19.	Curing Compound	Water Retention properties	ASTM C 309

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2 of 273

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
20.	Curing Compound	Drying time Requirements	ASTM C 309
21.	Curing Compound	Volatile Organic Content	ASTM D 2367/07
22.	Curing Compound	Reflectance	ASTM C 156
23.	Curing Compound	Relative Density at 30°C	IS: 9103 - 1999
24.	Curing Compound	Non-Volatile Matter	ASTM D2369
25.	Admixtures	Air Content	IS 1199 (Part 4):2018
26.	Admixtures	Bleeding	IS 9103: 1999, RA 2018
27.	Admixtures	Compressive Strength	IS 516: 1959RA 2018
28.	Admixtures	Flow	IS 9103: 1999, RA 2018
29.	Admixtures	Loss of Workability	IS 1199: 1959

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[www.qai.org.in](http://www.qai.org.in)



3 of 273

# Quality And Accreditation Institute

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
30.	Admixtures	Setting Times (Initial and Final)	IS 1199 (Part 7): 2018
31.	Admixtures	Water Content	IS 9103: 1999 RA 2018
32.	Coarse Aggregate	Abrasion Value	IS: 2386 (Part 4): 1963, (RA-2021)
33.	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2): 1963, (RA- 2021)
34.	Coarse Aggregate	Coal And Lignite	IS 2386 (Part 2): 1963, (RA-2021)
35.	Coarse Aggregate	Combined Flakiness and Elongation Index	IS 2386 (Part 1): 1963, RA 2021
36.	Coarse Aggregate	Crushing Value	IS: 2386 (Part 4): 1963 RA-2021
37.	Coarse Aggregate	Elongation Index	IS 2386 (Part 1): 1963 RA-2021
38.	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1): 1963 RA-2021
39.	Coarse Aggregate	Material Finer than 75 microns	IS 2386 (Part 1): 1963 RA-2021

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[www.qai.org.in](http://www.qai.org.in)



4 of 273



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
40.	Coarse Aggregate	Polished Stone Value	EN 1097 (Part- 8): 2009 / EN 14231: 2003
41.	Coarse Aggregate	Soft Particle	IS 2386 (Part 2): 1963 RA-2021
42.	Coarse Aggregate	Soundness by Na <sub>2</sub> SO <sub>4</sub>	IS 2386 (Part 5): 1963 RA-2021
43.	Coarse Aggregate	Soundness by MgSO <sub>4</sub>	IS 2386 (Part 5): 1963 RA-2021
44.	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3): 1963 RA-2021
45.	Coarse Aggregate	Surface Moisture	IS: 2386 (Part- 3): 1963 RA-2021
46.	Coarse Aggregate	Ten Percent Fines Value	IS 2386 (Part 4): 1963 RA-2021
47.	Coarse Aggregate	Water Absorption	IS 2386 (Part 3): 1963 RA-2021
48.	Coarse Aggregate	Petrography Test	IS 2386 (Part 8): 1963 RA-2021
49.	Fine Aggregate	Bulking of Sand	IS: 2386 (Part- 3): 1963 RA-2021

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[www.qai.org.in](http://www.qai.org.in)



5 of 273

# Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
50.	Fine Aggregate	Clay Lumps	IS 2386 (Part 2): 1963 RA-2021
51.	Fine Aggregate	Coal And Lignite	IS 2386 (Part 2): 1963 RA-2021
52.	Fine Aggregate	Material Finer than 75 microns	IS 2386 (Part 1): 1963 RA-2021
53.	Fine Aggregate	Organic Impurities	IS 2386 (Part 2): 1963 RA-2021
54.	Fine Aggregate	Silt Content	CPWD Specification Vol. 1 & "2019, Appendix-C, Clause 3.1.3.2/IS 2386
55.	Fine Aggregate	Soundness by Na <sub>2</sub> SO <sub>4</sub>	IS 2386 (Part 5) : 1963 RA-2021
56.	Fine Aggregate	Soundness by MgSO <sub>4</sub>	IS 2386 (Part 5): 1963 RA-2021
57.	Fine Aggregate	Specific Gravity	IS 2386 (Part 3):1963 RA-2021
58.	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963 RA-2021
59.	Fine Aggregates	Sand Equivalent Value	IS: 2720 (P-37): 1976 RA 2021

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[www.qai.org.in](http://www.qai.org.in)



6 of 273

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
60.	Fine Aggregate	Petrography Test	IS 2386 (Part 8): 1963 RA-2021
61.	Fine Aggregate	Fineness Modulus	ASTM C -136 (Cl.9.2)
62.	Bituminous Mix	Indirect Tensile Strength Ratio	ASTM D6931: 2017
63.	Paving Bitumen	Flash Point	IS 1209: 2021
64.	Paving Bitumen	Flash Point	IS 1448 (Part 69): 2019 RA 2024
65.	Paving Bitumen	Penetration	IS 1203: 2022
66.	Paving Bitumen	Softening Point	IS 1205: 2022
67.	Paving Bitumen	Solubility in Trichloroethylene	IS 1216: 2023
68.	Paving Bitumen	Specific Gravity	IS 1202: 2021
69.	Pulverised fuel ash lime brick	Dimensions- Height	IS 12894: 2002 RA 2022

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[www.qai.org.in](http://www.qai.org.in)



7 of 273



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
70.	Pulverised fuel ash lime brick	Dimensions- Length	IS 12894: 2002 RA 2022
71.	Pulverised fuel ash lime brick	Dimensions- Width	IS 12894: 2002 RA 2022
72.	Pulverised Fuel Ash Lime Bricks	Dimensions- Height	IS 13757: 1993 RA 2021
73.	Pulverised Fuel Ash Lime Bricks	Dimensions- Length	IS 13757: 1993 RA 2021
74.	Pulverised Fuel Ash Lime Bricks	Dimension- width	IS 13757: 1993 RA 2021
75.	Burnt Clay Bricks	Dimensions- Length	IS 1077: 2023
76.	Burnt Clay Bricks	Dimensions- Height	IS 1077: 2023
77.	Burnt Clay Bricks	Dimensions- Width	IS 1077: 2023
78.	Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash	Compressive Strength	IS 3495 (Part 1): 2019
79.	Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash	Efflorescence	IS 3495 (Part 3):2019

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8 of 273

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
80.	Burnt Clay Bricks/ Burnt Clay Fly Ash/ Pulverised Fuel Ash	Water Absorption	IS 3495 (Part 2): 2019
81.	Concrete Paving Blocks	Abrasion Resistance	IS 15658: 2021
82.	Concrete Paving Blocks	Aspect Ratio (L/T)	IS 15658: 2021
83.	Concrete Paving Blocks	Deviation from Squareness	IS 15658: 2021
84.	Concrete Paving Blocks	Flexural Strength / Breaking Load	IS 15658: 2021
85.	Concrete Paving Blocks	Freeze thaw Durability	IS 15658: 2021
86.	Concrete Paving Blocks	Plan Area	IS 15658: 2021
87.	Concrete Paving Blocks	Quality and Finish	IS 15658: 2021
88.	Concrete Paving Blocks	Thickness of wearing layer	IS 15658: 2021
89.	Concrete Paving Blocks	Visual Inspection	IS 15658: 2021

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9 of 273

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
90.	Masonry Units- Autoclaved Cellular Aerated Concrete	Drying Shrinkage	IS 6441 (Part 2): 1972 RA 2022
91.	Masonry Units- Autoclaved Cellular Aerated Concrete	Thermal Conductivity	IS 2185 (Part 3) 1994 RA 2020/ IS 3346: 1980 RA 2022
92.	Building Lime	Compressive Strength at 14 Days	IS 6932(P-7): 1973 RA 2019
93.	Building Lime	Compressive Strength at 28 Days	IS: 6932(P-7): 1973 RA 2019
94.	Building Lime	Setting Time Final	IS:6932(P-11): 1983 RA 2019
95.	Building Lime	Fineness- Residue of 2.36 mm IS Sieve	IS:6932(P-4): 1973 RA 2019
96.	Building Lime	Fineness- Residue of 212 micron IS Sieve	IS 6932(P-4): 1973 RA 2019
97.	Building Lime	Fineness- Residue of 300 micron IS Sieve	IS: 6932(P-4): 1973 RA 2019
98.	Building Lime	Initial Setting Time	IS:6932(P-11): 1983 RA 2019
99.	Building Lime	Popping & Pitting	IS: 6932(P-10): 1973 RA 2019

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10 of 273

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
100.	Building Lime	Residue of slaking- Residue on 300-micron Sieve	IS: 6932(P-3): 1973 RA 2019
101.	Building Lime	Residue of slaking- Residue on 850-micron Sieve	IS: 6932(P-3): 1973 RA 2019
102.	Building Lime	Soundness, Le Chatelier expansion	IS: 6932(P-9): 1973 RA 2019
103.	Building Lime	Transverse Strength	IS: 6932(P-7): 1973 RA 2019
104.	Building Lime	Volume Yield	IS: 6932(P-6): 1973 RA 2019
105.	Building Lime	Workability	IS: 6932(P-8): 1973 RA 2019
106.	Cement (OPC, PPC, PSC)	Consistency	IS 4031 (Part 4): 1988 RA 2019
107.	Cement (OPC, PPC, PSC)	Density	IS 4031 (part 11): 1988 RA 2019
108.	Cement (OPC, PPC, PSC)	Soundness By Autoclave Method	IS 4031 (PART3): 1988 RA 2019
109.	Cement (OPC, PPC, PSC)	Soundness By Le-Chatelier's Method	IS 4031 (Part 3): 1988 RA 2019

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11 of 273

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
110.	Cement (PPC)	Drying Shrinkage	IS 4031 (part 10): 1988 RA 2019
111.	Composite Cement	Consistency	IS 4031(P-4): 1988 RA 2019
112.	Composite Cement	Density	IS 4031(P-11): 1988 RA 2019
113.	Composite Cement	Drying Shrinkage	IS 4031 (P-10): 1988 RA 2019
114.	Composite Cement	Setting Time Final	IS 4031(P-5): 1988 RA 2019
115.	Composite Cement	Fineness of Blaine's Air Permeability	IS 4031 (P-2): 1999 RA 2018
116.	Composite Cement	Setting Time Initial	IS 4031 (P-5): 1988 RA 2019
117.	Composite Cement	Soundness By Autoclave Method	IS 4031 (P-3): 1988 RA 2019
118.	Composite Cement	Soundness By Le-Chatelier's Method	IS 4031 (P-3): 1988 RA 2019
119.	Hydraulic Cement	Compressive Strength	IS 4031 (P-6): 1988 RA 2019

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12 of 273



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
120.	Hydraulic Cement	Consistency	IS 4031 (P-2): 1999 RA 2018
121.	Hydraulic Cement	Fineness	IS 4031 (P-6): 1988 RA 2019
122.	Hydraulic Cement	Setting Time (Initial)	IS 4031 (P-5): 1988 RA 2019
123.	Hydraulic Cement	Setting Time (Final)	IS 4031 (P-5): 1988 RA 2019
124.	Hydraulic Cement	Soundness By Le-Chatlier	IS 4031 (P-3): 1988 RA 2019
125.	Hydraulic Cement	Soundness By Autoclave	IS 4031 (P-3): 1988 RA 2019
126.	Hardened Concrete	Compressive Strength by ACT Method	IS 9013: 1978 RA 2018
127.	Hardened Concrete	Compressive Strength- Cube	IS 516: 1959
128.	Hardened Concrete	Density	IS 516 (P-2/Sec-1): 2018 RA 2023
129.	Hardened Concrete	Depth of Water Penetration Under pressure	IS 516 (P-2/Sec-1): 2018 RA 2023

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13 of 273

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
130.	Hardened Concrete	Drying Shrinkage	IS 516 (P-6): 2020
131.	Hardened Concrete	Flexural Strength	IS 516: 1959
132.	Hardened Concrete	Flexural Strength	IS 516 (P-1/Sec- 1): 2021
133.	Hardened Concrete	Moisture Movement	IS 516(P-6): 2020
134.	Hardened Concrete	Pull Out Test	IS 2770 (Part 1): 1967 RA 2022
135.	Hardened Concrete	Split Tensile Strength	IS 516 (P-1/Sec- 1): 2021
136.	Fly Ash	Compressive Strength	IS 1727: 1967, (RA 2018)
137.	Fly Ash	Drying Shrinkage	IS 1727: 1967, (RA 2018)
138.	Fly Ash	Fineness Of Blaine's Air Permeability	IS 1727: 1967, (RA 2018)
139.	Fly Ash	Lime Reactivity	IS 1727: 1967, (RA 2018)

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14 of 273

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	<b>Building, Infrastructure &amp; Construction Materials</b>		
140.	Fly Ash	Retained on 45 micron IS Sieve	IS 1727: 1967, (RA 2018)
141.	Fly Ash	Soundness By Autoclave	IS 4031 (part 3): 1988 RA 2019
142.	Fly Ash	Specific Gravity	IS 1727: 1967, (RA 2018)
143.	Abrasive Powder	Grain Size Analysis	IS 1237: 2012 RA 2022
144.	Abrasive Powder	Shape and size	IS 1237: 2012 RA 2022
145.	Abrasive Powder	Specific Gravity	IS 1122: 2023
146.	Adhesives for Use with Ceramic, Mosaic and Stone	Deformability	IS 15477: 2019
147.	Adhesives for Use with Ceramic, Mosaic and Stone	Shear Adhesive Strength	IS 15477: 2019
148.	Adhesives for Use with Ceramic, Mosaic and Stone	Slip Test	IS 15477: 2019
149.	Adhesives for Use with Ceramic, Mosaic and Stone	Marking	IS 15477: 2019

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15 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
150.	Adhesives for Use with Ceramic, Mosaic and Stone	Tensile Adhesive Strength	IS 15477: 2019
151.	Bentonite	Density	IS 2720 (Part-3): 1980
152.	Bentonite	Free Swell Index	IS 2720 (Part- 40): 1977 RA 2021
153.	Bentonite	Gel Formation Index	IS 6186: 1986 RA 2024
154.	Bentonite	Liquid Limit	IS 2720 (Part-5): 1985 RA 2020
155.	Bentonite	Marsh Cone Viscosity	ASTM D6910: 2019
156.	Bitumen Emulsion	Coagulation of Emulsion	IS 8887: 2018
157.	Bitumen Emulsion	Ductility	IS 1208: 1978
158.	Bitumen Emulsion	Miscibility with Water	IS 8887: 2018
159.	Bitumen Emulsion	Particle Charge	IS 8887: 2018

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[www.qai.org.in](http://www.qai.org.in)



16 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
160.	Bitumen Emulsion	Penetration Test	IS 1203: 2022
161.	Bitumen Emulsion	Residue by Evaporation	IS 8887: 2018
162.	Bitumen Emulsion	Residue on 600-micron Sieve	IS 8887: 2018
163.	Bitumen Emulsion	Solubility In Trichloroethylene	IS 1216: 2023
164.	Bitumen Emulsion	Stability to Mixing with Cement	IS 8887: 2018
165.	Bitumen Emulsion	Storage Stability after 24h	IS 8887: 2018
166.	Bitumen Saturated Felts and Woven Fabrics for Roofing and	Tensile strength, L&T Direction	ASTM D 146, IS 13826: 2004
167.	Bitumen Mix Material (BM/DBM/BC)	Bitumen Content	IRC SP-11 / ASTM D 2172: 1988
168.	Bitumen Mix Material (BM/DBM/BC)	Combined Elongation And Flakiness	IS 2386 (P-1): 1963 RA 2021
169.	Bitumen Mix Material (BM/DBM/BC)	Flow Value	ASTM D-6927: 2015

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[www.qai.org.in](http://www.qai.org.in)



17 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
170.	Bitumen Mix Material (BM/DBM/BC)	Impact Test	IS 2386 (P-4): 1963 RA 2021
171.	Bitumen Mix Material (BM/DBM/BC)	Los Angeles Abrasion	IS 2386 (P-4): 1963 RA 2021
172.	Bitumen Mix Material (BM/DBM/BC)	Marshall Stability	ASTM D-6927: 2015
173.	Bitumen Mix Material (BM/DBM/BC)	Stripping Value	IS 6241: 2024
174.	Bitumen Mix Material (BM/DBM/BC)	Theoretical Maximum Specific Gravity	ASTM D 2041: 2019
175.	Bitumen Mix Material (BM/DBM/BC)	Gradation (Grain Size Analysis)	IS 2720 (P-4): 1985 RA 2020
176.	Bituminous Mix Material (BM/DBM/BC)	Density	ASTM D 2726: 2010
177.	Concrete Cube, Core, Beam	Drying Shrinkage	IS 516 (Part-6): 2020
178.	Concrete Cube, Core, Beam	Moisture Movement	IS 516 (Part-6): 2020
179.	Concrete Cube, Core, Beam	Rapid Chloride Ion Permeability Test	ASTM C 1202: 2017

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18 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
180.	Concrete Cube, Core, Beam	Surface Water Absorption	IS 516 (Part-2 / Sec-2): 2022
181.	Concrete Cube, Core, Beam	Water Permeability Test	IS 516 (Part-2 / Sec-1): 2018
182.	Concrete Cube, Core, Bream	Water Permeability Test	DIN1048 (Part- 5): 1997
183.	DBM/BC/PC/BM	Bitumen Content	ASTM D2172: 2005
184.	Grout /GP-2	Consistency	IS 4031(P-4): 1988 RA 2019
185.	Grout/GP-2	Compressive Strength	ASTM C 109: 2002
186.	Grout/GP-2	Setting Time Final	IS 4031(P-5): 1988 RA 2019
187.	Grout/GP-2	Setting Time Initial	IS 4031 (P-5): 1988 RA 2019
188.	Grouts for Filling of Joints of Tiles and Stones	Abrasion Resistance	IS 17190: 2020
189.	Grouts for Filling of Joints of Tiles and Stones	Chemical Resistance	IS 17190: 2020

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[www.qai.org.in](http://www.qai.org.in)



19 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
190.	Grouts for Filling of Joints of Tiles and Stones	Compressive Strength	IS 17190: 2020
191.	Grouts for Filling of Joints of Tiles and Stones	Flexural Strength	IS 17190: 2020
192.	Grouts for Filling of Joints of Tiles and Stones	Linear Shrinkage	IS 17190: 2020
193.	Grouts for Filling of Joints of Tiles and Stones	Transverse Deformation	IS 17190: 2020
194.	Grouts for Filling of Joints of Tiles and Stones	Water Absorption after 240 minutes	IS 17190: 2020
195.	Grouts for Filling of Joints of Tiles and Stones	Water absorption after 30 minutes	IS 17190: 2020
196.	Manhole Cover / Drain Cover	Dimension	IS 12592: 2002 RA 2018
197.	Manhole Cover / Drain Cover	Load Test	IS 12592: 2002 RA 2018
198.	Paving Bitumen	Absolute viscosity	IS 1206(P-3): 2021
199.	Paving Bitumen	Ductility Test	IS 1208: 1978

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[www.qai.org.in](http://www.qai.org.in)



20 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
200.	Paving Bitumen	Kinematic Viscosity	IS 1206 (P-3): 2021
201.	Gypsum Plaster, Concrete And Products	Expansion on setting	IS 2542 (Part-1) (sec-9) 2023
202.	Gypsum Plaster, Concrete And Products	Mechanical Resistance of set neat plaster	IS 2542 (Part-1) (sec-7) 2023
203.	Gypsum Plaster, Concrete And Products	Residue on 150 micron IS sieve	IS 2542 (Part-1) (sec-8) 2023
204.	Gypsum Plaster, Concrete And Products	Setting Time	IS 2542 (Part-1) (sec-3) 2023
205.	Gypsum Plaster, Concrete And Products	Soundness	IS 2542 (Part-1) (sec-6) 2023
206.	Gypsum Plaster, Concrete And Products	Transverse Strength	IS 2542 (Part-1) (sec-4) 2023
207.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Softening point	IS 1205: 2022
208.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Flash Point	IS 1209: 2021
209.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Elastic Recovery of Half thread in Ductilometer	IS 15462: 2019

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[www.qai.org.in](http://www.qai.org.in)



21 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
210.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Elastic Recovery of Half Thread In Ductilometer After Thin Film	IS 15462: 2019
211.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Penetration	IS 1203: 2022
212.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Separation, Difference in Softening Point	IS 15462: 2019
213.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Solubility In Trichloroethylene	IS 1216: 2023
214.	Polymer and Rubber Modified Bitumen CRMB/PMB/NRMB	Viscosity at 150 Degree Celsius	IS 1206 (Part 3):2021
215.	Precast Concrete Manhole Cover and Frame	Dimensions	IS 12592: 2002 RA 2018
216.	Precast Concrete Manhole Cover and Frame	Load Test	IS 12592: 2002 RA 2018
217.	Water Proofing Compound	Compressive Strength	IS 4031 (Part-6): 1988 RA 2019
218.	Water Proofing Compound	Setting Time Final	IS 4031 (Part-5): 1988 RA 2019
219.	Water Proofing Compound	Setting Time Initial	IS 4031 (Part-5): 1988 RA 2019

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[www.qai.org.in](http://www.qai.org.in)



22 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
220.	Water Proofing Compound	Water Permeability Test	IS 2645: 2003 RA 2022
221.	Water Proofing Compound	Chloride content	IS 6925 – 1973 RA 2018
222.	Welded Material	Elongation	IS 1608 (Part-1): 2022
223.	Welded Material	Fillet Weld Fracture	IS 7307 (Part-1): 1974 RA 2019
224.	Welded Material	Macro examination	IS 7307 (Part-1): 1974 RA 2019
225.	Welded Material	Tensile Strength	IS 1608 (Part-1): 2022
226.	Welded Material	Yield Stress	IS 1608 (Part-1): 2022
227.	White Cement Based Polymeric Putty	Cement Content	Annex B of IS: 5410-2013 RA 2018
228.	White Cement Based Polymeric Putty	Degree of Whiteness	Annex B of IS: 8042 - 2015
229.	White Cement Based Polymeric Putty	Setting Time Final	IS 17545: 2021

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[www.qai.org.in](http://www.qai.org.in)



23 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
230.	White Cement Based Polymeric Putty	Setting Time Initial	IS 17454: 2021
231.	White Cement Based Polymeric Putty	Polymer Content	IS 17545: 2021
232.	White Cement Based Polymeric Putty	Tensile adhesion Strength at 14 Days	IS 17545: 2021
233.	White Cement Based Polymeric Putty	Water Retentivity	IS 17545: 2021
234.	Micro Silica/Silica Fume	Compressive Strength	IS 1727: 1967, RA 2018
235.	Micro Silica/Silica Fume	Sieve Analysis at 45 Micron	IS 1727: 1967, RA 2018
236.	Micro Silica/Silica Fume	Specific surface	IS 15388:2003 RA 2022 (BET method)
237.	Cement Concrete Flooring Tiles	Dimensions (Length)	IS 1237: 2012, (RA 2022)
238.	Cement Concrete Flooring Tiles	Dimensions (Width)	IS 1237: 2012, (RA 2022)
239.	Cement Concrete Flooring Tiles	Dimensions (Thickness)	IS 1237: 2012, (RA 2022)

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[www.qai.org.in](http://www.qai.org.in)



24 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
240.	Cement Concrete Flooring Tiles	Flatness of the Tile Surface	IS 1237: 2012, (RA 2022)
241.	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237: 2012, (RA 2022)
242.	Cement Concrete Flooring Tiles	Resistance to wear	IS 1237: 2012, (RA 2022)
243.	Cement Concrete Flooring Tiles	Straightness	IS 1237: 2012, (RA 2022)
244.	Cement Concrete Flooring Tiles	Thickness Of Wearing Layer	IS 1237: 2012, (RA 2022)
245.	Cement Concrete Flooring Tiles	Water Absorption	IS 1237: 2012, (RA 2022)
246.	Cement Concrete Flooring Tiles	Wet Transverse Strength	IS 1237: 2012, (RA 2022)
247.	Ceramic Tiles	Breaking Strength	IS 13630 (Part-6): 2019
248.	Ceramic Tiles	Crazing Resistance of Glazed Tile	IS 13630 (Part-9): 2019
249.	Ceramic Tiles	Dimensions (Length, Width and Thickness)	IS 13630 (part 1): 2019

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[www.qai.org.in](http://www.qai.org.in)



25 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
250.	Ceramic Tiles	Impact Resistance Test	IS 13630 (Part- 14): 2019
251.	Ceramic Tiles	Modulus Of Rupture	IS 13630 (Part6): 2019
252.	Ceramic Tiles	Moisture Expansion using Boiling Water	IS 13630 (Part-3): 2019
253.	Ceramic Tiles	Scratch Hardness	IS 13630 (Part13): 2019
254.	Ceramic Tiles	Water Absorption	IS 13630 (Part2): 2019
255.	Chequered Cement Concrete Tiles	Resistance to wear	IS 13801: 2013, (RA 2018)
256.	Chequered Cement Concrete Tiles	Dimensions (Thickness)	IS 13801: 2013, (RA 2018)
257.	Chequered Cement Concrete Tiles	Dimensions (Length)	IS 13801: 2013, (RA 2018)
258.	Chequered Cement Concrete Tiles	Dimensions (Width)	IS 13801: 2013, (RA 2018)
259.	Chequered Cement Concrete Tiles	Flatness of the Tile Surface	IS 13801: 2013, (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



26 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
260.	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801: 2013, (RA 2018)
261.	Chequered Cement Concrete Tiles	Straightness	IS 13801: 2013, (RA 2018)
262.	Chequered Cement Concrete Tiles	Thickness Of Wearing Layer	IS 13801: 2013, (RA 2018)
263.	Chequered Cement Concrete Tiles	Water Absorption	IS 13801: 2013, (RA 2018)
264.	Chequered Cement Concrete Tiles	Wet Transverse Strength	IS 13801: 2013, (RA 2018)
265.	Gypsum Plaster Boards – Plain & Coated/Laminated	Dimension- Length/Width/Thickness	IS 2095 (P-1): 2023 & IS 2095 (P-2): 2022
266.	Gypsum Plaster Boards – Plain & Coated/Laminated	Density	IS 2095 (P-1): 2023
267.	Gypsum Plaster Boards – Plain & Coated/Laminated	Flexural Breaking Load	IS 2095 (P-1): 2023
268.	Gypsum Plaster Boards – Plain	Impact resistance	IS 2095 (P-1): 2023
269.	Gypsum Plaster Boards – Plain	Surface Hardness	IS 2095 (P-1): 2023

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[www.qai.org.in](http://www.qai.org.in)



27 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
270.	Gypsum Plaster Boards – Plain	Water Absorption	IS 2095 (P-1): 2023
271.	Gypsum Plaster Boards – Plain & Coated/Laminated	Finish	IS 2095 (P-1): 2023 & IS 2095 (P-2): 2022
272.	Safety Glass (Flat/Toughened)	Dimension & Squareness	IS 2553 (P-1) 2018
273.	Safety Glass (Flat/Toughened)	Thickness	IS 17004 – 2018 RA 2024
274.	Safety Glass (Flat/Toughened)	Fragmentation Test	IS 17004 – 2018 RA 2024
275.	Safety Glass (Flat/Toughened)	Flatness	IS 17004 – 2018 RA 2024
276.	Safety Glass (Flat/Toughened)	Resistance to shock	IS 17004 – 2018 RA 2024
277.	Concrete Hollow/Solid Block	Compressive Strength	IS 2185 (P-1) 2005 RA 2020 (Annex-D)
278.	Concrete Hollow/Solid Block	Density	IS 2185 (P-1) 2005 RA 2020 (Annex-C)
279.	Concrete Hollow/Solid Block	Dimension-Height	IS 2185(P-1), 2005 RA 2020 Annex-C

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



28 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
280.	Concrete Hollow/Solid Block	Dimension-Length	IS 2185(P-1) 2005 RA 2020 Annex-C
281.	Concrete Hollow/Solid Block	Dimension-Width	IS 2185(P-1) 2005 RA 2020 Annex-C
282.	Concrete Hollow/Solid Block	Water Absorption	IS 2185 (P-1) 2005 RA 2020 Annex-E
283.	Concrete Fresh (Design Mix)	Slump	IS 9103 – 1999 RA 2018, IS 1199:2018
284.	Concrete Fresh (Design Mix)	Compressive Strength	IS 516 P-1/Sec-1: 2021
285.	Concrete Fresh (Design Mix)	Compressive Strength	IS 516: 1959, (RA 2018)
286.	AAC Block Adhesive	Bulk Density	IS 2386 (P-3): 1963 RA 2021
287.	AAC Block Adhesive	Compressive Strength	IS 2250 1981 RA 2020
288.	AAC Block Adhesive	Open Time	IS 15477: 2019
289.	AAC Block Adhesive	Split Tensile Strength	ASTM C-1660

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[www.qai.org.in](http://www.qai.org.in)



29 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
290.	Coarse/Fine Aggregate	Petrography	IS 2386 (Part-8) 1963 RA 2021
291.	Fine Aggregate	Fineness Modulus	ASTM C -136 (Cl.9.2)
292.	Sewer Brick	Dimension height	IS 4885: 1988 RA 2020
293.	Sewer Brick	Dimension length	IS 4885: 1988 RA 2020
294.	Sewer Brick	Dimension width	IS 4885: 1988 RA 2020
295.	Sewer Brick	Efflorescence	IS 3495 (P-3) 2019
296.	Sewer Brick	Water absorption	IS 3495 (P-2) 2019
297.	Sewer Brick	Compressive strength	IS 3495 (P-1) 2019
298.	Unglazed ceramic vitreous acid resistance tile	Breaking strength	IS 4457 – 2007 RA 2022
299.	Unglazed ceramic vitreous acid resistance tile	Dimension (length, width, thickness)	IS 4457 – 2007 RA 2022

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30 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Materials</b>		
300.	Unglazed ceramic vitreous acid resistance tile	Modulus of rupture	IS 4457 – 2007 RA 2022
301.	Unglazed ceramic vitreous acid resistance tile	Water absorption	IS 4457 – 2007 RA 2022
302.	Unglazed ceramic vitreous acid resistance tile	Resistance to chemicals	IS 4457 – 2007 RA 2022
303.	Unglazed ceramic vitreous acid resistance tile	Resistance to concentrated HNO <sub>3</sub> & H <sub>2</sub> SO <sub>4</sub>	IS 4457 – 2007 RA 2022
304.	Kerb Stone	Bending strength	IS 5758 - 2020
305.	Kerb Stone	Dimensions	IS 5758 - 2020
306.	Kerb Stone	Water absorption	IS 5758 - 2020

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[www.qai.org.in](http://www.qai.org.in)



31 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
1.	HSD Bar/Structure Steel/ GI	Tensile Strength	IS 1608 (P-1): 2022
2.	Pipe/ MS / Steel Hollow	Elongation	IS 1608 (P-1): 2022
3.	Section	Yield stress / 0.2 % Proof stress	IS: 1608 (P-1): 2022
4.	Hard Drawn Steel Wire	% Elongation	IS 1608 (Part 1): 2022
5.	Hard Drawn Steel Wire	Reverse Bend Test	IS 1716 :2023
6.	Hard Drawn steel wire	Ultimate Tensile Strength	IS 1608 (Part 1): 2022
7.	High strength deformed steel bars and wires for concrete reinforcement	Bend Test	IS 1599: 2023
8.		Mass per meter	IS 1786: 2008 RA 2018
9.		Re-bend Test	IS 1786: 2008 RA 2018
10.		Tensile Test	IS 1608 (Part 1): 2022
11.	Mild Steel Wire For General Engineering (Annealed & Soft	Tensile Test	IS 1608 (Part 1):2022
12.	Drawn upto 1.0mm)	Warping Test	IS 1755: 2018 RA 2023
13.	Steel Tubes/ Pipe	Elongation %	IS 1608(Part 1):2022
14.	Steel Tubes/ pipe	Tensile Strength	IS 1608(Part 1): 2022

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[www.qai.org.in](http://www.qai.org.in)



32 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
15.	Steel Tubes/Pipe	Flattening Test	IS 2328: 2018 RA 2023
16.	Aluminium And Alloys, Bars And Rods Etc	Dimensions (Width)	IS 2673: 2002 RA 2022
17.	Aluminium And Alloys, Bars And Rods Etc	Freedom From Defects	IS 1285: 2023
18.		Tensile Strength	IS 1608(P-1): 2022
19.		Thickness	IS 2678: 1987 RA 2022
20.		% Elongation	IS 1608 (P-1): 2022
21.		0.2 % Proof Stress	IS 1608(P-1): 2022
22.		Dimensions (Length)	IS 2673: 2002 RA 2022
23.		Freedom From Defects	IS 733: 1983 RA 2022
24.		Freedom From Defects	IS 737: 2024
25.		Freedom From Defects	IS 738: 1994 RA 2020
26.	Aluminium And Alloys, Bars And Rods Etc (20mm And Above Diameter)	Thickness	IS 6477: 1983 RA 2021

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[www.qai.org.in](http://www.qai.org.in)



33 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
27.	Butterfly Valves for General Purposes	Face to Face Dimension	IS 13095: 2020
28.	Butterfly Valves for General Purposes	Performance Testing (Seat, Body Test)	IS 13095: 2020
29.	Butterfly Valves for General Purposes	Leakage Test	IS 13095: 2020
30.	Cast Iron Pipes & Fittings	Coating test At a temperature of 65 degree Celsius At a temperature of 0 degree	IS 1729: 2023
31.	Cast Iron Pipes & Fittings	Coating test At a temperature of 65 degree Celsius At a temperature of 0 degree	IS 3989: 2024
32.	Cast Iron Pipes & Fittings	Coating test At a temperature of 65 degree Celsius At a temperature of 0 degree Celsius	IS 15905: 2024
33.	Cast Iron Pipes & Fittings	Hydro static Test	IS 3989: 2024 / IS 15905: 2024

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[www.qai.org.in](http://www.qai.org.in)



34 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
34.	Cast Iron/Ductile Iron Pipes & Fittings	Dimensions	IS 1729: 2023 / IS 8329: 2000 RA 2020 / IS 15905: 2024 / IS 3989: 2024
35.	Cast Iron/Ductile Iron Pipes & Fittings	Hammer Test	IS 15905: 2024 / IS 1729: 2023 / IS 3989: 2024
36.	Cast Iron/Ductile Iron Pipes & Fittings	Mass	IS 15905: 2024 / IS 1729: 2023 / IS 3989: 2024
37.	Cast Iron/Ductile Iron Pipes & Fittings	Crush Test	IS 15905: 2024
38.	Cold Reduced Carbon Steel Sheet and Strip Part 1 Cold Forming and Drawing Purposes and Part 2 High Tensile and Multi-phase Steel	% Elongation	IS 1608(P-1): 2022
39.	Copper Alloy Single Taps, Combination Tap Assemblies, Stop Valves And Single Lever Mixers For Water Services	Bend Test	IS 1599: 2023
40.		Dimensions Measurement	IS 513 (P-1 and P-2): 2016
41.		Freedom From Defects	IS 513 (P-1 and 2): 2016 RA 2021
42.		Surface Finish	IS 15262: 2002 RA 2019
43.		Tensile Strength	IS 1608 (P-1): 2022

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[www.qai.org.in](http://www.qai.org.in)



35 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
44.		Dimensions and Tolerances	IS 513 (P-1 and 2) : 2016 RA 2021
45.		Yield Stress /0.2 % Proof Stress	IS 1608(P-1): 2022
46.	Concertina Coil	Diameter of Spring Wire	IS 4454 (P-1): 2001 RA 2021
47.	Concertina coil	Pitch Between the barbs	CPWD Specification Vol. 2: 2019, Clause 16.45.1: 2019
48.	Concertina coil	Tensile Strength of Spring wire	IS 1608(P-1): 2022
49.	Concertina coil	Weight of Concertina coil	CPWD Specification 524 Vol. 2 : 2019, Clause 16.45.1: 2019
50.	Copper Alloy Single Taps, Combination Tap Assemblies, Stop Valves And Single Lever Mixers For Water Services	Dimensions	IS 8931: 2021
51.		Finish	IS 8931: 2021
52.		Hydraulic Characteristics (Flow Rate)	IS 8931: 2021
53.		Manufacture/ Workmanship and Construction	IS 8931: 2021
54.		Mechanical Endurance Characteristics	IS 8931: 2021

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[www.qai.org.in](http://www.qai.org.in)



36 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
55.		Mechanical Strength Characteristic	IS 8931: 2021
56.		Pressure Resistance Characteristic	IS 8931: 2021
57.		Water Tightness Characteristic	IS 8931: 2021
58.	Ductile Iron Pipes & Fittings	Brinell Hardness	IS 1500 (P-1 & 2): 2019 RA 2024
59.	Ductile Iron Pipes & Fittings	Elongation %	IS 1608 (P-1):2022
60.	Ductile Iron Pipes & Fittings	Tensile Strength	IS 1608 (P-1):2022
61.	Fasteners Made Of Carbon Steel And Alloy Steel "A"	% Elongation	IS 1608 (P-1): 2022
62.		Impact Strength	IS 1757 Part-1:2020
63.		Rockwell Hardness	IS 1586 (P-1):2018 RA 2023
64.		Rockwell Hardness, HRBW	IS 1586 (P-1):2018 RA 2023
65.		Tensile Strength	IS 1608 (P-1): 2022
66.		Yield Stress	IS 1608 (P-1): 2022
67.	Fillet Weld Fracture Test	Macro Examination	IS 3600 (P-9): 2022 / ASME SECTION IX: 2019

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[www.qai.org.in](http://www.qai.org.in)



37 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
68.	Fillet Weld Fracture Test	Root Bend	IS 3600 (P-5) 2018 & (Part-7): 1985 RA 2019 / ASME SECTION IX: 2019
69.	Fillet Weld Fracture Test	Side Bend	ASME SECTION IX: 2019 / IS 3600(P-6): 2018
70.	Galvanized Sheet- Corrugated	% Elongation	IS 1608 (P-1): 2022
71.	Galvanized Sheet- Corrugated	Bent Test	IS 1599: 2023
72.	Galvanized Sheet- Corrugated	Depth	IS 277: 2018 RA 2022
73.	Galvanized Sheet- Corrugated	Freedom From Defects	IS 277: 2018 RA 2022
74.	Galvanized Sheet- Corrugated	Length	IS 277: 2018 RA 2022
75.	Galvanized Sheet- Corrugated	Mass	IS 277: 2018 RA 2022
76.	Galvanized Sheet- Corrugated	Tensile Strength	IS 1608(P-1): 2022
77.	Galvanized Sheet- Corrugated	Thickness	IS 277: 2018 RA 2022
78.	Galvanized Sheet- Corrugated	Width	IS 277: 2018 RA 2022
79.	Galvanized Sheet- Corrugated	% Elongation	IS 1608(P-1): 2022
80.	Galvanized Sheet- Corrugated	Bent Test	IS 1599: 2023

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[www.qai.org.in](http://www.qai.org.in)



38 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
81.	Galvanized Sheet- Corrugated	Depth	IS 277: 2018 RA 2022
82.	Galvanized Sheet- Corrugated	Freedom From Defects	IS 277: 2018 RA 2022
83.	Galvanized Sheet- Corrugated	Length	IS 277: 2018 RA 2022
84.	Galvanized Sheet- Corrugated	Mass	IS 277: 2018 RA 2022
85.	Galvanized Sheet- Corrugated	Tensile Strength	IS 1608(P-1): 2022
86.	Galvanized Sheet- Corrugated	Thickness	IS 277: 2018 RA 2022
87.	Galvanized Sheet- Corrugated	Width	IS 277: 2018 RA 2022
88.	Galvanized Steel Barbed Wire for Fencing	Breaking Load of Completed barbed Wire	IS 247: 2023
89.	Galvanized Steel Barbed Wire for Fencing	Diameter of Line Wire	IS 278: 2009 RA 2020
90.		Diameter of Point Wire	IS 278: 2009 RA 2020
91.		Distance Between Two Wire	IS 278: 2009 RA 2020
92.		Mass of Completed Barbed Wire	IS 278: 2009 RA 2020
93.		No. of Lays Between the Two Consecutive Bars	IS 278: 2009 RA 2020

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[www.qai.org.in](http://www.qai.org.in)



39 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
94.		Tensile Strength of Line Wire	IS 278: 2009 RA 2020
95.	High strength deformed steel bars and wires for concrete reinforcement	Bond Test - Deformation and Surface Characteristic	IS 1786: 2008 RA 2018
96.		Specified Length	IS 1786: 2008 RA 2018
97.		% Total Elongation at Maximum Force	IS 1608 (P-1): 2022
98.		Deformation & Surface Characteristics Mean Area of Rib	IS 1786: 2008 RA 2018
99.		Deformation & Surface Characteristics Mean Projected Area of Transverse Rib	IS 1786: 2008 RA 2018
100.		Effective Cross- Section Area	IS 1786: 2008 RA 2018
101.		Nominal Cross- Sectional Area	IS 1786: 2008 RA 2018
102.		Surface Defects	IS 1786: 2008 RA 2018
103.		TS/YS Ratio	IS 1608 (P-1): 2022

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[www.qai.org.in](http://www.qai.org.in)



40 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
104.	Hollow Steel Section for Structural Use	Dimension - Outside Dimension	IS 4923: 2017 RA 2023
105.		Length	IS 4923: 2017 RA 2023
106.		Mass	IS 4923: 2017 RA 2023
107.		Thickness	IS 4923: 2017 RA 2023
108.	Hot Rolled Carbon Steel Sheet, Plate and Strip	% Elongation	IS 1608 (P-1): 2022
109.	Hot Rolled Carbon Steel Sheet, Plate and Strip	Bend Test	IS 1599: 2023
110.		Dimension	IS 1730: 1989 RA 2019
111.		Freedom From Defects	IS 1079: 2017 RA 2022
112.		Mass	IS 1079: 2017 RA 2022
113.		Tensile Strength	IS 1608 (P-1): 2022
114.		Tolerances Measurement	IS 1730: 1989 RA 2019
115.		Yield Strength	IS 1608 (P-1): 2022
116.	Hot Rolled Medium and High Tensile Structural Steel	Bend Test	IS 1599: 2023
117.		Elongation %	IS 1608(P-1): 2022

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[www.qai.org.in](http://www.qai.org.in)



41 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
118.		Freedom From Defects	IS 2062: 2011 RA 2021
119.		Impact Test	IS 1757(P-1): 2020
120.	Hot Rolled Medium and High Tensile Structural Steel	Length	IS 1730: 1989 RA 2019/ IS 1732: 1989 RA 2019/ IS 1852: 1985 RA 2022/ IS 2676: 1981 RA 2022/ IS 2677: 2014 RA 2022/ IS 2826: 1986 RA 2021 / IS 808: 2021
121.	Hot Rolled Medium and High Tensile Structural Steel	Mass	IS 1730: 1989/ IS 1732: 1989/ IS 808: 2021
122.	Hot Rolled Medium and High Tensile Structural Steel	Tensile Test	IS 1608 (P-1): 2022
123.	Hot Rolled Medium and High Tensile Structural Steel	Thickness	IS 1730: 1989 RA 2019/ IS 1732: 1989 RA 2019/ IS 1852: 1985 RA 2022/ IS 2676: 1981 RA 2022/ IS 2677: 2014 RA 2022/ IS 2826: 1986 RA 2021 / IS 808: 2021
124.	Hot Rolled Medium and High Tensile Structural Steel	Width	IS 1730: 1989 RA 2019/ IS 1732: 1989 RA 2019/ IS 1852: 1985 RA 2022/ IS 2676: 1981 RA 2022/ IS 2677: 2014 RA

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



42 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			2022/ IS 2826: 1986 RA 2021 / IS 808: 2021
125.	Hot Rolled Medium and High Tensile Structural Steel	Yield Stress	IS 1608 (P-1): 2022
126.	Hot Rolled Steel Strip for Welded Tubes and Pipes	% Elongation	IS 1608 (P-1): 2022
127.		Bend Test	IS 10748: 2004 RA 2021
128.		Dimension Measurement	IS 10748: 2004 RA 2021
129.		Freedom From Defects	IS 10748: 2004 RA 2021
130.		Tensile Strength	IS 1608 (P-1): 2022
131.		Tolerances Measurement	IS 10748: 2004 RA 2021
132.		Yield Stress	IS 1608(P-1): 2022
133.	Indented wire for prestressed concrete	Dimensions	IS 6003: 2010 RA 2021
134.		0.2% Proof Stress	IS 1608 (P-1): 2022
135.		Elongation After Fracture	IS 1608 (P-1): 2022
136.		Mass	IS 6003: 2010 RA 2021

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



43 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
137.		Reverse Bend Test	IS 6003: 2010 RA 2021
138.		Tensile Strength	IS 1608 (P-1): 2022
139.	Metallic Coating (Ferrous and non-Ferrous)	Mass of zinc Coating	IS 6745: 1972 RA 2021
140.	Metallic Materials	Rockwell Hardness	IS 1586 (P-1): 2018 RA 2023
141.	Metallic Materials	Rockwell Hardness (HRBW)	IS 1586 (P-1): 2018 RA 2023
142.	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement	% Elongation	IS 1608 (P-1): 2022
143.		Bend Test	IS 1599: 2023
144.		Dimensions	IS 432 (P-1 and 2) : 1982 RA 2020
145.		Freedom From Defects	IS 432 (P-1 and 2) : 1982 RA 2020
146.		Mass	IS 1732: 2023
147.		Tensile Strength	IS 1608(P-1): 2022
148.		Yield Stress / 0.2% Proof Stress	IS 1608 (P-1): 2022
149.		Diameter	IS 280: 2006 RA 2021
150.	Mild steel wire for general engineering purposes	Freedom From Defects	IS 280: 2006 RA 2021

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44 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
151.		Freedom from defects	IS 280: 2006 RA 2021
152.		Size and Tolerances	IS 280: 2006 RA 2021
153.		Tensile Strength	IS 1608 (P-1): 2022
154.		Freedom From Defects	IS 7887: 1992 RA 2022
155.		Size and Tolerance- out of shape	IS 7887: 1992 RA 2022
156.		Size and Tolerances - Diameter	IS 7887: 1992 RA 2022
157.	Precast Concrete Pipes (with or without Reinforcement)	Barrel Wall Thickness	IS 458: 2021
158.		Hydrostatic Test	IS 3597: 1998 RA 2023
159.		Internal Diameter of Pipes	IS 458: 2021
160.		Minimum number of longitudinal mild steel or hard drawn steel	IS 458: 2021
161.		Weight of longitudinal, Mild Steel or Hard Drawn Steel	IS 458: 2021
162.		Weight of Spiral, Hard Drawn Steel Wire	IS 458: 2021

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[www.qai.org.in](http://www.qai.org.in)



45 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
163.		Workmanship and Finish	IS 458: 2021
164.	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Elongation	IS 1608 (P-1): 2022
165.		Slip test	IS 16172: 2023
166.		Tensile Strength	IS 1608(P-1): 2022
167.		Workmanship And Finish	IS 16172: 2023
168.		% Elongation	IS 1608 (P-1): 2022
169.	Stainless Steel Plate, Sheet and Strip	Bend Test	IS 1599: 2023
170.		Brinell Hardness	IS 1500 (P-1 & 2): 2019 RA 2024
171.		Corrosion Resistance	IS 10461 (P-1 & 2): 1994 RA 2021
172.		Dimension & Tolerance Measurement	IS 6911: 2017 RA 2022
173.		Erichsen Cupping Test	IS 10175: 2018 RA 2023
174.	Stainless Steel Plate, Sheet and Strip	Freedom From Defects	IS 6911: 2017 RA 2022
175.		Hardness Test	IS 1586 (P-1): 2018 RA 2023

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[www.qai.org.in](http://www.qai.org.in)



46 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
176.		Marking	IS 6911: 2017 RA 2022
177.		Surface Finish	IS 6911: 2017 RA 2022
178.		Tensile Strength	IS 1608 (P-1): 2022
179.		Yield Stress / 0.2% Proof Stress	IS 1608 (P-1): 2022
180.	Steel Chequered Plates	Calculation of Mass	IS 3502: 2009 RA 2021
181.	Steel Chequered Plates	Chequered Height	IS 3502: 2009 RA 2021
182.	Steel Chequered Plates	Freedom From Defects	IS 3502: 2009 RA 2021
183.	Steel Chequered Plates	Length/Width	IS 3502: 2009 RA 2021
184.	Steel Chequered Plates	Thickness	IS 3502: 2009 RA 2021
185.	Steel Pipe for Water and Sewage - Seamless and Welded	Dimension- Outside Diameter	IS 3502: 2009 RA 2021
186.		Elongation	IS 1608(P-1): 2022
187.		Flattening Test	IS 2328: 2018 RA 2023
188.		Length	IS 3589: 2001 RA 2022
189.		Tensile Strength	IS 1608 (P-1): 2022
190.		Thickness	IS 3589: 2001 RA 2022

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[www.qai.org.in](http://www.qai.org.in)



47 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
191.		Visual Inspection Appearance and Workmanship	IS 3589: 2001 RA 2022
192.		Yield Stress	IS 1608 (P-1): 2022
193.	Steel Butt Hinges	Screw Holes	IS: 6760: 1972 RA 2021
194.	Steel Butt Hinges	Position of Holes	IS 1341: 2018
195.	Steel Butt Hinges	Finish	IS 1341: 2018
196.	Steel Butt Hinges	Dimensions	IS 1341: 2018
197.	Steel Butt Hinges	Number of Knuckles	IS 1341: 2018
198.	Welded Wire Mesh	Dimension	IS 1566: 1982 RA 2020
199.	Welded Wire Mesh	Elongation	IS 1608 (Part-1): 2022
200.	Welded Wire Mesh	Mesh Wire Diameter	IS 432 (Part-2): 1982 RA 2020
201.	Welded Wire Mesh	Tensile Strength	IS 1608 (Part-1): 2022
202.	Welded Wire Mesh	Yield Strength	IS 1608 (Part-1): 2022
203.	Steel Pipes for Water and Sewage	Hydraulic Pressure Test	IS 3589: 2001 RA 2022

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[www.qai.org.in](http://www.qai.org.in)



48 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
204.	Steel tubes for mechanical and general engineering purposes	% Elongation	IS 1608 (P-1): 2022
205.		Bend Test	IS 3601: 2006 RA 2022
206.		Dimension - Outside Diameter	IS 3601: 2006 RA 2022
207.		Flattening Test	IS 2328: 2018 RA 2023
208.		Length	IS 3601: 2006 RA 2022
209.		Mass	IS 3601: 2006 RA 2022
210.		Straightness	IS 3601: 2006 RA 2022
211.		Tensile Strength	IS 1608 (P-1): 2022
212.		Thickness	IS 3601: 2006 RA 2022
213.		Workmanship	IS 3601: 2006 RA 2022
214.		Yield Stress	IS 1608(P-1): 2022
215.	Steel Tubes/ Pipe	Bend Test	IS 2329: 2005 RA 2022
216.	Steel Tubes/ Pipe	Dimension - Outside Diameter	IS 1161: 2014 RA 2019

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[www.qai.org.in](http://www.qai.org.in)



49 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
217.	Steel Tubes/ Pipe	Dimension - Outside Diameter	IS 1239 (P-1): 2004 RA 2014
218.	Steel Tubes/ Pipe	Leak Proof Test	IS 1239 (P-1): 2004 RA 2014
219.	Steel Tubes/ Pipe	Length	IS 1239 (P-1): 2004 RA 2014
220.	Steel Tubes/ Pipe	Marking	IS 1239 (P-1): 2004 RA 2014
221.	Steel Tubes/ Pipe	Mass	IS 1161: 2014 RA 2019
222.	Steel Tubes/ Pipe	Mass	IS 1239 (P-1): 2004 RA 2014
223.	Steel Tubes/ Pipe	Straightness	IS 1161: 2014 RA 2019
224.	Steel Tubes/ Pipe	Thickness	IS 1161: 2014 RA 2019
225.	Steel Tubes/ Pipe	Thickness	IS 1239 (P-1): 2004 RA 2014
226.	Steel Tubes/ Pipe	Workmanship	IS 1161: 2014 RA 2019
227.	Steel Tubes/ Pipe	Workmanship	IS 1239 (P-1): 2004 RA 2014
228.	Steel Tubes/ Pipe	Yield Stress	IS 1608 (P-1): 2022
229.	Steel Tubes/Pipe	Tensile Strength	IS 1608 (P-1): 2022

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



50 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
230.	Uncoated stress relieved low relaxation seven ply strand wire	% Elongation	IS 1608 (P-1): 2022
231.		0.2 % Proof Load	IS 1608 (P-1): 2022
232.		Breaking strength	IS 1608 (P-1): 2022
233.		Diameter difference between centre and surrounding wire	IS 14268: 2022
234.		Length of Lay	IS 14268: 2022
235.		Modulus of Elasticity	IS 1608(P-1): 2022
236.		Nominal Area	IS 14268: 2022
237.		Nominal Diameter	IS 14268: 2022
238.		Nominal Mass	IS 14268: 2022
239.		Workmanship & Finish	IS 14268: 2022
240.	Welds & welded specimens	Face Bend	IS 3600 (P-5) 2018 & (P-7): 1985 RA 2019/ ASME Section IX: 2019
241.		Fillet Weld Fracture Test	IS 3600 (P-1): 2022/ASME Section IX: 2019

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[www.qai.org.in](http://www.qai.org.in)



51 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
242.		Tensile Test	ASME Section IX 2019 / IS 3600 (Part 4):2024
243.	Welds & welded specimens Test	Transverse Tensile Strength	IS 3600 (P-3): 2018/ASME Section IX: 2019
244.	Wrought aluminium utensils	Colour	Cl.8.4.4 of IS 1660: 2009
245.		Handles	Cl.7 of IS 1660: 2009
246.		Hardness	Cl.8.4.5 of IS 1660: 2009
247.		Marking	Cl.10.1 of IS 1660: 2009
248.		Test for lunch boxes-performance test	Cl.8.6.1 of IS 1660: 2009
249.		Abrasion resistance	Cl.8.4.3 of IS 1660: 2009
250.		Fabrication (reduction in thickness)	Cl.5 of IS 1660: 2009
251.		Shape and dimensions	Cl.6 of IS 1660: 2009
252.		Test for lunch boxes-ground nut oil test for leakage	Cl.8.6.1 of IS 1660: 2009
253.		Workmanship and finish	Cl.8 of IS 1660: 2009

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[www.qai.org.in](http://www.qai.org.in)



52 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
254.	Wrought aluminium and aluminium alloy rivet stock for general engineering purposes	Freedom From Defects	IS 740: 1977 RA 2022
255.	Wrought aluminium and aluminium alloy for manufacture of utensils	Tensile Strength	IS 1608 (P-1):2022
256.		0.2% Proof Stress	IS 1608 (P-1):2022
257.		Bend Test	IS 1599: 2023
258.		Elongation % on 50 mm Gauge Length	IS 1608 (P-1):2022
259.		Marking	IS 21: 1992 RA 2022
260.	Wrought aluminium and aluminium alloy rivet stock for general engineering purposes	Dimension & Tolerances	IS 740: 1977 RA 2022
261.		Head Forming Test	IS 740: 1977 RA 2022
262.		Marking	IS 740: 1977 RA 2022
263.		Tensile Strength	IS 1608 (P-1):2022
264.		Welded Electrode Size	IS 814-2004 RA 2021

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[www.qai.org.in](http://www.qai.org.in)



53 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
265.	Covered Electrodes for Manual Metal Arc Welding of Carbon and Carbon Manganese Steel	Length	IS 814-2004 RA 2021
266.		Tensile Strength	IS 1608 (P-1) 2022
267.		Yield stress	IS 1608 (P-1) 2022
268.		Elongation	IS 1608 (P-1) 2022
269.	Stainless Steel Sinks for Domestic Purposes	Thickness	IS 13983 – 1994 RA 2019
270.		Depth of Bowls	IS 13983 – 1994 RA 2019
271.		Internal Dimension of Bowls	IS 13983 – 1994 RA 2019
272.		Marking	IS 13983 – 1994 RA 2019
273.	Door Handles for Mortice Locks	Manufacture and Construction	IS 1992-2024
274.		Performance Requirement	IS 1992-2024
275.		Workmanship	IS 1992-2024
276.		Handle Rotation Terminology	IS 1992-2024
277.		Centre Distance	IS 1992-2024
278.	Stainless Steel Utensils	Shapes & Dimensions	IS 14756-2022

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



54 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
279.		Workmanship & Finish	IS 14756-2022
280.		Staining Test	IS 14756-2022
281.		Mechanical shock test	IS 14756-2022
282.		Thermal shock test	IS 14756-2022
283.		Dry Heat test	IS 14756-2022
284.		Coating thickness Test (For Copper Deposit)	IS 14756-2022
285.		Nominal Capacity Test	IS 14756-2022
286.		Fragmentation Test	IS 14756-2022
287.		Ball Drop Test	IS 14756-2022
288.		Thermal Shock Test	IS 14756-2022
289.		Free Fall Test	IS 14756-2022

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



55 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
1.	Plastic pipes - HDPE pipes/PE pipes/DWC pipes & fittings	Dimensions- outside Diameter	IS 14333: 2022 / IS 4984: 2016 / IS: 17425: 2020 / IS:12786: 2024
2.	Plastic Pipes - HDPE Pipes/PE Pipes/DWC Pipes & Fittings	Hydraulic Characteristics	IS 14333: 2022 / IS 4984: 2016 / IS: 17425: 2020 / IS:12786: 2024
3.	Plastic Pipes - HDPE Pipes/PE Pipes/DWC Pipes & Fittings	Reversion Test	IS 14333: 2022 / IS 4984: 2016 / IS: 17425: 2020 / IS:12786: 2024
4.	Plastic Pipes - HDPE Pipes/PE Pipes/DWC Pipes & Fittings	Melt Flow Rate	IS 2530: 1963
5.	Plastic Pipes - HDPE Pipes/PE Pipes/DWC Pipes & Fittings	Density	IS 7328: 2020
6.	Plastic Pipes - HDPE Pipes/PE Pipes/DWC Pipes & Fittings	Wall Thickness	IS 14333: 2022 / IS 4984: 2016 / IS: 17425: 2020 / IS:12786: 2024
7.	Plastic Pipes – UPVC/ CPVC/ PPR/Polymer Resin & Raw material	Diameter	IS:12235 (P-1) 2004 / IS 14735: 1999 / IS: 17546 – 2021 / IS: 13592- 2013
8.	Plastic Pipes – UPVC/ CPVC/ PPR/Polymer Resin & Raw material	Wall thickness	IS:12235 (P-1) 2004 / IS 14735: 1999 / IS: 17546 – 2021 / IS: 13592- 2013
9.	Plastic Pipes – UPVC/ CPVC/ PPR/Polymer Resin & Raw material	Density	IS 12335 (Part 14): 2004

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



56 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
10.	Plastic Pipes – UPVC/CPVC/PPR/Polymer Resin & Raw material	Vicat softening temperature	IS 12235 (P-2): 2004
11.	Plastic Pipes – UPVC/ CPVC/ PPR/Polymer Resin & Raw material	Hydrostatic characteristics - Type test & acceptance test	IS:4985: 2021 / IS 12235 (Part 8, Sec- 01): 2004
12.	Geotextile/ Geo Composite/ Geogrid/ Geostap	Mass Per Unit Area	ASTM D5261-92 RA1996
13.	Geotextile/ Geo Composite/ Geogrid/ Geostap	Thickness	EN ISO 9863-1:2016
14.	Geotextile/ Geo Composite/ Geogrid/ Geostap	Tensile Strength	EN ISO 10319:2015
15.	Geotextile/ Geo Composite/ Geogrid/ Geostap	Elongation at break	ASTM D 4632-08 / IS: 16635 - 2017 / EN ISO 10319:2015
16.	Geotextile/ Geo Composite/ Geogrid/ Geostap	CBR Puncture Strength	ASTM D 6241-22 /EN ISO 12236:2006
17.	Geotextile	Apparent Opening Size	ASTM D 6767-11
18.	Geotextile/ Geo Composite/ Geogrid/ Geostap	Hydraulic Gradient	EN ISO 12958-1:2020

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



57 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
19.	Geotextile/ Geo Composite/ Geogrid/ Geostrap	Tear Strength	ASTM D4533-04/ IS: 14293:1995 RA 2019
20.	Geotextile/ Geo Composite/ Geogrid/ Geostrap	Burst strength	ASTM D3786-18/ IS: 1966 – (P-1 & 2) 2022
21.	UPVC Door/Frame/Profile	Density at 27°C	ASTM D792-20 / IS: 17953-2023
22.	UPVC Door/Frame/Profile	Tensile Modulus (Modulus of Elasticity)	ASTM D638-14 / EN ISO 178:2019 / IS: 13360 (P-5/S-7:2022)
23.	UPVC Door/Frame/Profile	Impact Strength (Charpy Unnotched)	ASTM D256-23 / EN ISO 179-2 / IS: 13360 (P-5/S-5) :2017 RA 2022
24.	UPVC Door/Frame/Profile	Durometer Hardness	DIN 53505:1987-06
25.	UPVC Door/Frame/Profile	Vicat Softening Point	ASTM D1525-09 / EN ISO 306:2022 / IS: 13360 (P-6/S-1:2018)
26.	UPVC Door/Frame/Profile	Calcium carbonate	IS 14735-1999 RA 2019
27.	UPVC Door/Frame/Profile	Dimensions and tolerances	IS 17953:2023
28.	UPVC Door/Frame/Profile	Appearance	IS 17953:2023
29.	UPVC Door/Frame/Profile	Mass of profile	IS 17953:2023
30.	UPVC Door/Frame/Profile	Resistance to impact of falling mass	IS 17953:2023 (Annex-D)
31.	UPVC Door/Frame/Profile	Heat ageing at 150°C	IS 17953:2023 (Annex-E)
32.	UPVC Door/Frame/Profile	Heat reversion	IS 17953:2023 (Annex-C)

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58 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
33.	Holding attachments	Thickness of the zinc electroplating	IS 1573-1986 RA 2021
34.	App Membrane	Dimensional Stability	ASTM D 5147-14/ IS 16532: 2017 RA 2022
35.	App Membrane	Penetration	ASTM D 5-06: 2020
36.	App Membrane	Softening Point	IS 205 1992 / IS 16532:2017 RA 2022
37.	APP Membrane (Sheet)	Elongation	ASTM D 5147-14 / IS 16532: 2017 RA 2022
38.	APP Membrane (Sheet)	Flexibility at low Temperature (-10 Degree Celsius)	ASTM D 5147-07: 2007
39.	APP Membrane (Sheet)	Puncture Resistance	ASTM 5147-07: 2007
40.	APP Membrane (Sheet)	Tear Resistance	ASTM D 4073-94:2003 / IS 16532: 2017 RA 2022
41.	APP Membrane (Sheet)	Tensile Strength	ASTM D 5147-07: 2007
42.	APP Membrane (Sheet)	Water Absorption	ASTM D 95-99 / IS 16532: 2017 RA 2022
43.	App Membrane (Sheet)	Thickness	ASTM D 751 IS 16532: 2017 RA 2022
44.	CPVC Pipe	Flattening Test	IS 12235 (Part 19): 2004 RA 2019

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[www.qai.org.in](http://www.qai.org.in)



59 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
45.	Fibre Reinforced Plastic Products / Glass Reinforced Polyester Dough Moulding	Density of Moulding	IS 8543 (P-1/sec 2): 1984
46.	Fibre Reinforced Plastic Products / Glass Reinforced Polyester Dough Moulding	Flexural Strength	IS 13411: 1992 RA 2024
47.	Fibre Reinforced Plastic Products / Glass Reinforced Polyester Dough Moulding	Glass Content	IS 13411: 1992 RA 2024
48.	Fibre Reinforced Plastic Products / Glass Reinforced Polyester Dough Moulding	Water Absorption	IS 13411: 1992 RA 2024
49.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Fibre Glass Content	IS 14856: 2000 RA 2022 Annex B
50.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Tensile Strength	IS 14856: 2000 RA 2022 Annex D

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[www.qai.org.in](http://www.qai.org.in)



60 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
51.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Bending Strength	IS 14856: 2000 RA 2022 Annex E
52.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Water Absorption	IS 14856: 2000 RA 2022 Annex G
53.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Fire Retardancy	IS 14856: 2000 RA 2022 Annex H
54.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Height	IS 4020: 1998 RA 2013
55.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Thickness	IS 4020: 1998 RA 2013
56.	Glass Fibre Reinforced Plastic (GRP) Panel/Sheet Type Door Shutter	Width	IS 4020: 1998 RA 2013

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[www.qai.org.in](http://www.qai.org.in)



61 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
57.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Average Breaking Strength of Fabric – Length wise	IS 1969 (P-1): 2018 RA 2024
58.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Average Breaking Strength of Fabric - Width wise	IS 1969 (P-1): 2018 RA 2024
59.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Capacity	IS 16208: 2015 RA 2020
60.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Dimensions - Inside Length	IS 16208 (Annex B): 2015 RA 2020
61.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Dimensions – Inside Width	IS 16208 (Annex B): 2015 RA 2020
62.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Elongation at Break of fabric- Length wise	IS 1969 (P-1): 2018 RA 2024

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



62 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
63.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	Elongation at Break of fabric- Width wise	IS 1969 (P-1): 2018 RA 2024
64.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	Ends per dm	IS 16208 (Annex B): 2015 RA 2020
65.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	Mass of sack	IS 1964: 2001 RA 2022
66.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	Minimum Breaking Strength of Bottom Seam	IS 9030: 1979 RA 2018
67.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	Picks per dm	IS 16208 (Annex B): 2015 RA 2020
68.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20 kg and 30 kg Foodgrains	UV Stabilized Test	IS 16208 (Annex C): 2015 RA 2020
69.	HDPE/PP Woven Sacks for Packaging 50 kg/25 kg Sugar	Average Breaking Strength of Fabric – Length wise	IS 1969 (P-1): 2018 RA 2024

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



63 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
70.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Average Breaking Strength of Fabric - Width wise	IS 1969 (P-1): 2018 RA 2024
71.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Capacity	IS 14968: 2015 RA 2020
72.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Dimensions - Inside Length	IS 14968 (Annex B): 2015 RA 2020
73.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Dimensions – Inside Width	IS 14968 (Annex B): 2015 RA 2020
74.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Elongation at Break of fabric- Length wise	IS 1969 (P-1): 2018 RA 2024
75.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Elongation at Break of fabric- Width wise	IS 1969 (P-1): 2018 RA 2024
76.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Ends per dm	IS 14968 (Annex B): 2015 RA 2020
77.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Mass of the sack with liner	IS 1964: 2023
78.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Mass of unlaminated sack	IS 1964: 2023
79.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Minimum Breaking Strength of Bottom Seam	IS 9030: 1979 RA 2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



64 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
80.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Picks per dm	IS 14968 (Annex B): 2015 RA 2020
81.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	UV Stabilized Test	IS 14968 (Annex C): 2015 RA 2020
82.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Average Breaking Strength of Fabric – Length wise	IS 1969 (P-1): 2018 RA 2024
83.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Average Breaking Strength of Fabric - Width wise	IS 1969 (P-1): 2018 RA 2024
84.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Capacity	IS 16208: 2015 RA 2020
85.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Dimensions - Inside Length	IS 14887: 2014 RA 2023
86.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Dimensions – Inside Width	IS 14887: 2014 RA 2023
87.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Elongation at Break of fabric- Length wise	IS 1969(P-1): 2018 RA 2024
88.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Elongation at Break of fabric- Width wise	IS 1969 (P-1): 2018 RA 2024
89.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Ends per dm	IS 14887: 2014 RA 2023

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[www.qai.org.in](http://www.qai.org.in)



65 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
90.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Mass of sack	IS 1964: 2023
91.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Minimum Breaking Strength of Bottom Seam	IS 9030: 1979 RA 2018
92.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Picks per dm	IS 14887: 2014 RA 2023
93.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	UV Stabilized Test	IS 14887: 2014 RA 2023
94.	Plastic	Specific Gravity	ASTM D792: 2013
95.	Plastic/ Membrane	Elongation %	IS 13360 (Part5) (Sec. 1-3): 2022
96.	Plastics	Density	ASTM D792: 2013
97.	Plastics	Elongation %	ASTM D638: 2014
98.	Plastics	Tensile Strength	ASTM D638: 2014
99.	Plastics / Membrane	Tensile Strength	IS 13360 (Part 5) (Sec.1-3): 2022
100.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Adhesion Test of Metallic Coating	ASTM B 571: 2018
101.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Elongation	ASTM D412, D 638, ISO 527, DIN 53455, BS 2782: 1986
102.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Hardness (Shore A, Shore D)	IS 3400 (P-2): 2014 RA 2019, IS 13360 (P-5/Sec-11):2013 RA 2018, ASTM D

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[www.qai.org.in](http://www.qai.org.in)



66 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
103.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	In flammability/ Fire Resistance Test	ASTM D 635: 1986
104.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Melt Flow Rate	IS 2530:1963 RA 2018, ASTM D1238-23, ISO 1133: 1986
105.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Moisture Content	ASTM D 6980: 1986
106.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Tear Strength	IS 2076:1981 RA 2018, IS 14611: 2024
107.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Vicat Softening Point	IS 10810 (P-22):1984 RA 2021, ISO 306:2013, ASTM D 1525-09, DIN 53460: 1986
108.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Water Absorption	ASTM D 570: 1986
109.	PVC Water Stopper	Accelerated Extraction Test	IS 15058: 2002 RA 2019
110.	PVC Water Stopper	Cold Bend Temperature	IS 9766: 1992 RA 2018
111.	PVC Water Stopper	Elongation	IS 13360 (P-5 Sec. 2 & 3): 2002
112.	PVC Water Stopper	Hardness	IS 13360 (P -5/ Sec. 11): 2013
113.	PVC Water Stopper	Stability in Effect of Alkalies Test-Change in Dimension	IS 15058: 2002

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[www.qai.org.in](http://www.qai.org.in)



67 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
114.	PVC Water Stopper	Stability in Effect of Alkalies Test-Weight Increase/ Decrease after 7/28 days	IS 15058: 2002
115.	PVC Water Stopper	Water Absorption	IS 15058: 2002
116.	PVC Water Stopper	Tensile Strength	IS 13360 (P-5 SEC 2 & 3): 2002
117.	PVC/ Plastic/Rubber Waterproofing Membrane	Change of Dimension after heating at 70 Degree Celsius for 2 hrs.	DIN 16726: 2017
118.	PVC/ Plastic/Rubber Waterproofing Membrane	Cold Bending (Foldability)	EN 4955, DIN 16726: 2017
119.	PVC/ Plastic/Rubber Waterproofing Membrane	Elongation	ISO 527-2, EN 12311-2, ASTM D 638: 2010
120.	PVC/ Plastic/Rubber Waterproofing Membrane	Material Characteristics During and After Storage at 80 Degree Celsius	DIN 16726: 2017
121.	PVC/ Plastic/Rubber Waterproofing Membrane	Resistance of Joints	EN 12317-2: 2010
122.	PVC/ Plastic/Rubber Waterproofing Membrane	Tear Propagation Strength	DIN 53363:2003, EN 12310, ASTM D 624: 2003
123.	PVC/ Plastic/Rubber Waterproofing Membrane	Tensile Strength	ISO 527-2, EN 12311-2, ASTM D 638: 2010

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[www.qai.org.in](http://www.qai.org.in)



68 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
124.	PVC/ Plastic/Rubber Waterproofing Membrane	Thickness	DIN 53370:2006, EN 1849-2: 2019
125.	Resin, Plastic & polymer, Raw Material, Plastic Pipes	Charpy Impact Strength	IS 15801: 2008 / ISO 179 (Part-1): 2000
126.	Resin, Plastic & polymer, Raw Material, Plastic Pipes	Izod Impact Strength	ASTM D256: 2010
127.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Visual Appearance, finish and colour	IS 16098 (Part-2):2013
128.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Physical characteristics of PE/PP pipes (Resistance to heating, oven test)	IS 12235 (Part-6):2004 RA 2019
129.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Physical characteristics of PE/PP injection moulded components (Effect of heating)	IS 16098 (Annex-D):2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



69 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
130.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Ring stiffness	IS 16098 (Part-1) (Annex-C):2013
131.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Impact strength	IS 12235 (Part-9):2004 RA 2019
132.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Ring flexibility	IS 16098 (Part-1) (Annex-D):2013
133.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Performance requirements (Tightness of elastomeric seal joint)	IS 12235 (Part-8/Sec-2 & Sec-3):2004 RA 2019
134.	Structured wall Plastics Piping systems for non-pressure drainage and sewerage (DWC Pipe)	Water tightness	IS 16098 (Annex-F):2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



70 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
135.	Thermosetting Resin Bonded Sheet Moulding Compound (SMC & DMC Sheet)	Cross Breaking Strength (Flexural Strength)	IS 1998: 1962
136.	Thermosetting Resin Bonded Sheet Moulding Compound (SMC & DMC Sheet)	Specific Gravity	IS 1998: 1962
137.	Thermosetting Resin Bonded Sheet Moulding Compound (SMC & DMC Sheet)	Tensile Strength	IS 1998: 1962
138.	Thermosetting Resin Bonded Sheet Moulding Compound (SMC & DMC Sheet)	Tensile Strength	IS 1998: 1962
139.	UPVC Pipe	Dimension of Socket - Socket Length	IS 4985: 2021
140.	UPVC Pipe	Dimension of Socket Internal diameter	IS 4985: 2021
141.	UPVC Pipe	Length	IS 4985: 2021
142.	UPVC Pipe	Resistance to external Blow at 0 Deg, C	IS 12235 (Part 9): 2004 RA 2019
143.	UPVC Pipe	Resistance to External Blows	IS 15328: 2003

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



71 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
144.	UPVC Pipe	Resistance to Internal Hydrostatic Pressure Test	IS 12235 (Part 8, Sec-1): 2004 RA 2019
145.	UPVC Pipe	Ring Stiffness	IS 15328: 2003
146.	UPVC Pipe	Stress Relief Test	IS 12235 (Part 6): 2004
147.	UPVC Screen and casing Pipe	Colour	IS 12818: 2010
148.	UPVC Screen and casing Pipe	Internal Diameter	IS 12818: 2010
149.	UPVC Screen and casing Pipe	Resistance to External Blows	IS 12818: 2010
150.	UPVC Screen and casing Pipe	Threading of Screen and Casing Pipe	IS 12818: 2010
151.	UPVC Screen and Casing Pipe	Visual Appearance	IS 12818: 2010
152.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Capacity	IS 2798: 1998
153.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Drop Test	IS 2798: 1998
154.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Leakage Test	IS 2798: 1998

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72 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
155.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Manufacturer Workmanship, Finish and Appearance	IS 15410: 2003
156.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Transparency	IS 15410: 2003
157.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Wall Thickness	IS 2798: 1998
158.	Containers For Packaging Of Natural Mineral Water And Drinking Water	Water Potability	IS 15410: 2003
159.	Rotational Moulded Polyethylene Water Storage Tanks	Dimension Of Tank- Overall Diameter	IS 12701: 1996
160.	Rotational Moulded Polyethylene Water Storage Tanks	Dimension Of Tank- Internal Dia Of Manhole	IS 12701: 1996
161.	Rotational Moulded Polyethylene Water Storage Tanks	Dimension Of Tank- Wall And Bottom Thickness	IS 12701: 1996

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[www.qai.org.in](http://www.qai.org.in)



73 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
162.	Rotational Moulded Polyethylene Water Storage Tanks	Dimension Of Tank- Weight Of Tank	IS 12701: 1996
163.	Rotational Moulded Polyethylene Water Storage Tanks	Finish	IS 12701: 1996
164.	Rotational Moulded Polyethylene Water Storage Tanks	Flexural Modulus	IS 13360 P-5/SEC 7: 2022
165.	Rotational Moulded Polyethylene Water Storage Tanks	Resistance To Deformation	IS 12701: 1996
166.	Rotational Moulded Polyethylene Water Storage Tanks	Resistance To Impact	IS 12701: 1996
167.	Rotational Moulded Polyethylene Water Storage Tanks	Tensile Strength	IS 12701: 1996
168.	Rotational Moulded Polyethylene Water Storage Tanks	Test For Top Load Resistance	IS 12701: 1996

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[www.qai.org.in](http://www.qai.org.in)



74 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
169.	Films	Density	IS 13360 (Part 3/Sec.-1): 1995
170.	Films	Elongation %	IS 13360 (Part 5) (Sec. 1 & 3): 2022
171.	Films	Overall Migration	IS 9845: 1998 RA 2020
172.	Films	Overall Migration	IS 9845: 1998 RA 2020
173.	Films	Specific Gravity	IS 13360 (Part 3/Sec.-1): 1995
174.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Short Term Hydraulic Pressure test	IS 7834 (P-1): 1987 RA 2018
175.	PPR Pipe	Length	IS 15801: 2008 RA 2022
176.	PPR Pipe	Melt Flow Rate	IS 13360 (P-4 / S-1): 2018
177.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Appearance	IS 15225: 2002 RA 2024
178.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Charpy Impact Strength	IS 13360 (Part-5 / Sec-5): 2017 RA 2022
179.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Form	IS 15225: 2002 RA 2024

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[www.qai.org.in](http://www.qai.org.in)



75 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
180.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Vicat Softening Temperature	IS 13360 (Part-6 / Sec-1): 2018
181.	UPVC Pipe	Dimension of Socket - Outside Diameter	IS 13592: 2013 RA 2018
182.	UPVC Pipe	Colour of Pipe	IS 13592: 2013 RA 2018
183.	UPVC Pipe	Dimension of Socket - Wall Thickness	IS 13592: 2013 RA 2018
184.	UPVC Pipe	Hydrostatic Characteristic -Type Test & Acceptance Test)	IS 4985: 2021
185.	UPVC Pipe	Resistance To external Blows at 0°C	IS 4985: 2021
186.	UPVC Pipe	Visual appearance	IS 13592: 2013 RA 2018
187.	Aluminium Composite Panel /Sheet (ACP)	Chemical Resistance (10% HCl for 72 hrs b) (20% H <sub>2</sub> SO <sub>4</sub> for 72 hrs c) (20% NaOH for 18 hrs d) (3% detergent Solution at 38°C for 72 hrs)	ASTM D 543-14/ Issue No. 00 Issue Date: 14/01/2021 AAMA Specification: 605-98: 2020
188.	Aluminium Composite Panel /Sheet (ACP)	Elongation	ASTM D E 8: 1924

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[www.qai.org.in](http://www.qai.org.in)



76 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
189.	Aluminium Composite Panel /Sheet (ACP)	Flexural Modulus	ASTM D 790: 2021
190.	Aluminium Composite Panel /Sheet (ACP)	Flexural Strength	ASTM D 790: 2021
191.	Aluminium Composite Panel /Sheet (ACP)	Pencil Hardness	ASTM D 3363: 2020
192.	Aluminium Composite Panel /Sheet (ACP)	Tensile Strength	ASTM D E 8: 2017
193.	Aluminium Composite Panel /Sheet (ACP)	Water Absorption	ASTM D 570-98, ASTM C 393: 2018
194.	CPVC Fittings for Potable Hot and Cold-Water Distribution Supplies	Socket Length	IS 17546: 2021
195.	CPVC Fittings for Potable Hot and Cold-Water Distribution Supplies	Thermal Stability by Hydrostatic Pressure Test	IS 12235 (Part-8/Sec-1): 2004 RA 2019
196.	CPVC Pipe & Fittings	Reversion Test	IS 12235 (Part 5/6): 2004 RA 2019
197.	CPVC Pipe & Fittings	Specific Gravity	IS 12235 (Part 14): 2004 RA 2019
198.	CPVC Pipe & Fittings	Tensile Strength	IS 12235 (Part 13): 2004 RA 2019
199.	CPVC Pipe & Fittings	Visual Appearance /Colour	IS 15778: 2007 RA 2022
200.	CPVC Pipe & Fittings	Wall Thickness	IS 12235 (Part 1): 2004 RA 2019

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[www.qai.org.in](http://www.qai.org.in)



77 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
201.	HDPE Pipe	Identification of Strips	IS 4984: 2016 RA 2021
202.	HDPE Pipe	Elongation at Break	IS 4984: 2016 RA 2021
203.	HDPE Pipe	Internal Pressure Creep Rupture Test of Pipe Joints	IS 4984: 2016 RA 2021
204.	HDPE Pipe	Length	IS 4984: 2016 RA 2021
205.	HDPE Pipe	Reversion Test	IS 14333: 2022
206.	HDPE Pipe	Slow Crack Growth rate	IS 4984: 2016 RA 2021
207.	HDPE Pipe	Tensile Strength for Butt-fusion	IS 4984: 2016 RA 2021
208.	HDPE Pipe	Visual Appearance/ Colour	IS 14333: 2022
209.	HDPE Pipe	Wall Thickness	IS 14333:2022
210.	HDPE Pipe & Fittings	Density	IS 7328: 2020
211.	HDPE Pipe & Fittings	Dimensions- outside Diameter	IS 4984: 2016 RA 2021
212.	HDPE Pipe & Fittings	Dimensions-Outside Diameter	IS 14333: 2022
213.	HDPE Pipe & Fittings	Elongation %	IS 4984: 2016 RA 2021
214.	HDPE Pipe & Fittings	Overall Migration	IS 9845: 1998 RA 2020
215.	HDPE Pipe & Fittings	Overall Migration	IS 9845: 1998 RA 2020
216.	HDPE Pipe & Fittings	Specific Gravity	IS 7328: 2020
217.	HDPE Pipe & Fittings	Tensile Strength	IS 4984: 2016 RA 2021
218.	HDPE Pipe & Fittings	Visual Appearance/ Colour	IS 4984: 2016 RA 2021
219.	HDPE Pipe & Fittings	Wall Thickness	IS 4984: 2016 RA 2021

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[www.qai.org.in](http://www.qai.org.in)



78 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
220.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Dimensions - Thickness	IS:7834 (P-1 to 8): 1987 RA 2018
221.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Dimensions- Diameter at Mid-Point of Socket length	IS 7834 (P-1 to 8): 1987 RA 2018
222.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Dimensions- Socket length	IS 7834 (P-1 to 8): 1987 RA 2018
223.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Dimension of Pipe	IS 17425: 2020
224.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Elongation at break	IS 17425: 2020

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[www.qai.org.in](http://www.qai.org.in)



79 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
225.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Fusion Compatibility Test (Quality test and Acceptance test)	IS 17425: 2020
226.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Holding attachment of coupler part	IS 17425: 2020
227.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Hydraulic Performance Characteristics (Quality Test and Acceptance test)	IS 17425: 2020
228.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Hydraulic Proof Test	IS 17425: 2020

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[www.qai.org.in](http://www.qai.org.in)



80 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
229.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Leakage test	IS 17425: 2020
230.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Out of Roundness (Ovality)	IS 17425: 2020
231.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Reversion Test	IS 17425: 2020
232.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Rubber Ring	IS 17425: 2020

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[www.qai.org.in](http://www.qai.org.in)



81 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
233.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Tensile Strength at Yield	IS 17425: 2020
234.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Visual Appearance and Workmanship	IS 17425: 2020
235.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Wall Thickness	IS 17425: 2020
236.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Weldability Test (Quality Test and Acceptance Test)	IS 17425: 2020

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[www.qai.org.in](http://www.qai.org.in)



82 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
237.	Irrigation Equipment - Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems	Workmanship and Appearance	IS 17425: 2020
238.	PE Pipe	Colour	IS 14885: 2022
239.	PE Pipe	Dimension of Pipe-Outside Diameter	IS 12786: 2024
240.	PE Pipe	Dimension of pipes-Wall Thickness	IS 14885: 2022 / IS 12786: 2024
241.	PE Pipe	Elongation at Break	IS 14885: 2022 / IS 12786: 2024
242.	PE PIPE	Elongation at Break %	IS 14151 (P-1 & 2): 1999
243.	PE Pipe	Finish	IS 14885: 2022
244.	PE PIPE	Fusion Compatibility Test	IS 14151(P-1): 1999 RA 2021
245.	PE Pipe	Hydraulic Characteristic	IS 14885: 2022
246.	PE PIPE	Hydraulic Characteristic (Quality Test & Acceptance Test)	IS 14151 (P-1 & 2): 1999 RA 2021
247.	PE Pipe	Resistance To Weathering	IS 14885: 2022
248.	PE Pipe	Reversion test	IS 14885: 2022
249.	PE Pipe	Tensile strength	IS 12786: 2024
250.	PE PIPE	Tensile Strength	IS 14151 (P-1 & 2): 1999 RA 2021

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[www.qai.org.in](http://www.qai.org.in)



83 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
251.	PE Pipe	Tensile Test	IS 14885: 2022
252.	PE Pipes	Density	IS 7328: 2020
253.	PE Pipes	Dimension of pipes-Outside Diameter	IS 14885:2022
254.	PE Pipes	Reversion Test	IS 14151: 1999 RA 2021
255.	PE Pipes	Specific Gravity	IS 7328: 2020
256.	PE Pipes	Visual Appearance/ Colour	IS 14151: 1999 RA 2021
257.	PE Pipes	Wall Thickness	IS 14151: 1999 RA 2021
258.	PE Pipes & Fittings	Dimensions- Diameter	IS 14151 (Part 1): 1999 RA 2021
259.	PE Pipes for Water Supply	Identification of strips	IS 4984: 2016 RA 2021
260.	PE Pipes for Water Supply	Out of square of pipe end	IS 4984: 2016 RA 2021
261.	PE Pipes for Water Supply	Yield Stress	IS 4984: 2016 RA 2021
262.	PPR Pipe	Density	IS 12235 (Part 14): 2004 RA 2019
263.	PPR Pipe	Dimensions-Outside Diameter	IS 12235 (Part 1): 2004 RA 2019
264.	PPR Pipe	Specific Gravity	IS 12235 (Part 14): 2004 RA 2019
265.	PPR Pipe	Visual Appearance/ Colour	IS 15801: 2008 RA 2022
266.	PPR Pipe	Wall Thickness	IS 12335 (Part 1): 2004 RA 2019
267.	QCPE PIPE	Workmanship & Appearance	IS 14151 (P-2): 2008 RA 2021
268.	Quick Coupled Polyethylene Pipes & Fittings	Holding Attachment for Coupler Parts	IS 14151 (P-2): 2008 RA 2021

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



84 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastics &amp; Plastic Products</b>		
269.	Quick Coupled Polyethylene Pipes & Fittings	Hydraulic Proof Test	IS 14151 (P-2): 2008 RA 2021
270.	Quick Coupled Polyethylene Pipes & Fittings	Leakage Test	IS 14151 (P-2): 2008 RA 2021
271.	Quick Coupled Polyethylene Pipes & Fittings	Rubber Ring Hardness	IS 14151(P-2): 2008 RA 2021
272.	Quick Coupled Polyethylene Pipes & Fittings	Weldability Test	IS 14151 (P-1&2): 2008 RA 2021
273.	Unplasticized Polyvinyl Chloride (Pvc-U) Pipes For Soil And Waste Discharge System For Inside And Outside Buildings Including Ventilation And Rainwater System	Resistance To Dichloromethane At Specified Temperature	IS: 12235 (Part-11): 2004 RA 2019
274.	UPVC Injection Moulded Fittings	Champher	IS 14735: 1999 RA 2019
275.	UPVC Injection Moulded Fittings	Colour	IS 14735: 1999 RA 2019

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



85 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
276.	UPVC Injection Moulded Fittings	Dimension- Mean Diameter (Inside & Outside) Of Socket At Mid-Point	IS 14735: 1999 RA 2019
277.	UPVC Injection Moulded Fittings	Dimensions- Wall Thickness	IS 14735: 1999 RA 2019
278.	UPVC Injection Moulded Fittings	Impact Test (Drop Test)	IS 14735: 1999 RA 2019
279.	UPVC Injection Moulded Fittings	Stress Relief Test	IS 12235 (Part 6): 2004 RA 2019
280.	UPVC Injection Moulded Fittings	Vicat Softening	IS 6307: 2023
281.	UPVC Injection Moulded Fittings	Visual Appearance	IS 14735: 1999 RA 2019
282.	UPVC Injection Moulded Fittings	Water Tightness Of Joint	IS 14735: 1999 RA 2019
283.	UPVC Pipe	Appearance	IS 15328: 2003 RA 2018
284.	UPVC Pipe	Axial shrinkage	IS:13592: 2013 RA 2018
285.	UPVC Pipe	Colour	IS 15328: 2003 RA 2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



86 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
286.	UPVC Pipe	Elastomeric Sealing ring/Solvent Cemented Joint Internal Hydrostatic Pressure Test	IS 15328: 2003 RA 2018
287.	UPVC Pipe	Elastomeric sealing Ring/Solvent Cemented Joints Internal negative hydrostatic pressure Test	IS 15328: 2003 RA 2018
288.	UPVC Pipe	Elastomeric Sealing Rings Dimension Wall Thickness	IS 15328: 2003 RA 2018
289.	UPVC Pipe	Resistance To External Blows at 0 Deg. C	IS 12235 (Part 9): 2004 RA 2019
290.	UPVC Pipe	Resistance to external blows at 0 degree	IS 15328: 2003 RA 2018
291.	UPVC Pipe	Ring Stiffness	IS 15328: 2003 RA 2018
292.	UPVC Pipe	Tensile Strength	IS 12235 (Part13): 2004 RA 2019
293.	UPVC Pipe	Water Tightness of Joint	IS 13592: 2013 RA 2018
294.	UPVC Pipe & Fittings	Density	IS 12335 (Part 14): 2004 RA 2019
295.	UPVC Pipe & Fittings	Dimensions- Diameter	IS 12235 (Part 1): 2004 RA 2019

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87 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics & Plastic Products		
296.	UPVC Pipe & Fittings	Elongation %	IS 12235 (Part 13): 2004 RA 2019
297.	UPVC Pipe & Fittings	Reversion Test	IS 12235 (Part 5/6): 2004 RA 2019
298.	UPVC Pipe & Fittings	Specific Gravity	IS 12335 (Part 14): 2004 RA 2019
299.	UPVC Pipe & Fittings	Tensile Strength	IS 12235 (Part 13): 2004 RA 2019
300.	UPVC Pipe & Fittings	Visual Appearance/ Colour	IS 4985: 2021
301.	UPVC Pipe & Fittings	Wall Thickness	IS 12235 (Part 1): 2004 RA 2019
302.	UPVC Pipes for Water Supplies	Pipe Ends	IS 4985: 2021
303.	Polymer products	UV Exposer Test	ASTM G 154-16, ASTM 4329: 2016

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[www.qai.org.in](http://www.qai.org.in)



88 of 273

# Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
1.	Cooker Handle and Handle Assemblies Attached to Cookware	Attachment to Cookware (Torque Measurement)	Cl.4.5 of IS 13395: 2021
2.		Bending Strength	Cl.5.2 of IS 13395: 2021
3.		Burning Resistance	Cl.5.10 of IS 13395: 2021
4.		Fatigue Resistance	Cl.5.5 of IS 13395: 2021
5.		Heat Resistance	Cl.5.8 of IS 13395: 2021
6.		Impact Resistance	Cl.5.4 of IS 13395: 2021
7.		Leakage	Cl.5.6 of IS 13395: 2021
8.		Position With Respect to Cookware	Cl.4.4 of IS 13395: 2021
9.		Selection And Size	Cl.4.3 of IS 13395: 2021
10.		Thermal Insulation	Cl.5.7 of IS 13395: 2021
11.		Torque Strength	Cl.5.3 of IS 13395: 2021
12.		Washing Resistance	Cl.5.9 of IS 13395: 2021
13.	Domestic Gas stove for use with LPG	Burner Pan Supports	IS 4246, Amd- 5, Cl. 12, & 12.1Amd 4: 2002 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



89 of 273

# Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
14.	Domestic Gas Stoves for use with LPG	Surface of Glass or Glass Ceramic a) General Verification of the Strength of the gas stove surface of toughened glass top against thermal stress b) Fragmentation test of the toughened glass stove top	IS 4246, Cl. 5.1, 15.1, 15.2, Amd 4: 2002 RA 2018
15.	Domestic Gas Stoves for use with LPG	Burners	IS 5116, Cl. 10: 2020 RA 2018
16.	Domestic Gas Stoves for use with LPG	Combustion	IS 4246:2002, Amd 5: 2002 RA 2018
17.	Domestic Gas Stoves for use with LPG	Design For Maintenance	IS 4246, cl 6 to 6.6: 2002 RA 2018
18.	Domestic Gas Stoves for use with LPG	Fire Hazard & Limiting Temp.	IS 4246, Amd-5 Cl 25: 2002 RA 2018
19.	Domestic Gas Stoves for use with LPG	Fire Hazard & Limiting Temp.	IS 5116: 2020
20.	Domestic Gas Stoves for use with LPG	Flame stability	IS 4246, Cl. 19 to 19.3: 2002 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



90 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
21.	Domestic Gas Stoves for use with LPG	Flash Back	IS 4246, Amd-5, cl 21: 2002 RA 2018
22.	Domestic Gas Stoves for use with LPG	Formation of Soot	IS 4246, Amd-5, Cl 22: 2002 RA 2018
23.	Domestic Gas Stoves for use with LPG	Gas consumption	IS 4246 cl 17.1 to 17.2, Amd-5: 2002 RA 2018
24.	Domestic Gas Stoves for use with LPG	Gas inlet connection	IS 4246, Cl. 14 to 41.2: 2002 RA 2018 / IS 5116 cl 18.0 to 18.4: 2020
25.	Domestic Gas Stoves for use with LPG	Gas Leak Detector	IS 4246, Cl. 13.2, Amd 4: 2002 RA 2018/IS 13432(P-1), Amd 1:1992 RA 2018/ IS 13432(P-2): 1998
26.	Domestic Gas Stoves for use with LPG	Gas Soundness	IS 4246, Cl 13: 2002 RA 2018/ IS 5116, Cl. 16: 2020
27.	Domestic Gas Stoves for use with LPG	Gas Tap	IS 4246, Amd- 5, Cl. 9: 2002 RA 2018 / IS 5116, Cl. 8 to 8.12: 2020
28.	Domestic Gas Stoves for use with LPG	General	IS 4246, Amd-5, Cl-4.0,4.1,4.1.1: 2002 RA 2018/IS 5116 cl 4 :2020
29.	Domestic Gas Stoves for use with LPG	Ignition and Flame Travel	IS 4246, Cl.18,18.4, Amd- 5: 2002 RA 2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



91 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
30.	Domestic Gas Stoves for use with LPG	Injector Jets, Across flats, Projection threads	IS 4246: 2002 RA 2018/ IS:5116, Cl. 9:2020
31.	Domestic Gas Stoves for use with LPG	Materials (Ageing, Flashback)	IS 4246, Cl. 5, Amd 5: 2002 RA 2018
32.	Domestic Gas Stoves for use with LPG	Materials (Change in weight & Volume)	IS 5116, Cl 5.0 to 5.7: 2020 / IS:2305, Cl. 3:1988 RA 2021
33.	Domestic Gas Stoves for use with LPG	Noise Control	IS 4246, Amd - 5, Cl-20, 2002 RA 2018
34.	Domestic Gas Stoves for use with LPG	Resistance to Draught	IS 4246, Amd "5, Cl.23: 2002 RA 2018
35.	Domestic Gas Stoves for use with LPG	Rigidity and Stability	IS 4246, Amd "5, Cl-7,7.1 to 7.3: 2002 RA 2018
36.	Domestic Gas Stoves for use with LPG	Strength and Rigidity	IS 4246, Amd "5, Cl.15: 2002
37.	Domestic Gas Stoves for use with LPG	Thermal Efficiency	IS 4246, Amd "5, Cl. 26: 2002 RA 2018
38.	Domestic Gas Stoves for use with LPG	Workmanship and Finish	IS 4246, Amd "5, Cl-8.1 to 8.3: 2002 RA 2018
39.	Domestic Gas Stoves for use with LPG	Workmanship and Finish	IS 5116, Cl-7 to 7.7: 2020

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[www.qai.org.in](http://www.qai.org.in)



92 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
40.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Additionally (mechanical) change to the glass tops pan support for an uncovered burner thermal shock test	IS 4246 Amd.5, Cl.5.1.3 (a to f): 2002 RA 2018
41.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Deviation on holes and position of holes	IS 2553 (P-1):2018
42.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Dimension (Length/Width)	IS 2553 (Part-1): 2018
43.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Dimension of bati inverted vessel tandoori maker stand	IS 4246 Amd.5, Cl.5.1.3, Fig.6: 2002 RA 2018
44.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Fabrication in glass (diameter holes, limitations on position of holes)	IS 2553 (P-1): 2018 / IS: 4246 Amd.5:2002
45.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Flatness (Overall bow, Roller wave, distortion edge lifts local distortion)	IS 17004: 2018 RA 2024 / IS: 4246 Amd.5:2002 RA 2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



93 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
46.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Fragmentation test	IS 17004: 2018 RA 2024 / IS: 4246 Amd.5:2002 RA 2018
47.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Notches and cut - out edge working of glass for toughening	IS 2553 (P-1):2018
48.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Resistance to Impact (Resistance to shock)	IS 17004: 2018 RA 2024/ IS: 4246 Amd.5: 2002
49.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Squareness	IS 4246 Amd.5: 2002 RA 2018/ IS: 2553 (P-1): 2018
50.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Surface of glass or glass ceramic top, edges, corners, thickness of aluminium foil and making instruction	IS 4246 Amd.5 Cl.5.1, 5.1.2 (ato e): 2002 RA 2018
51.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Temperature of glass	IS 4246 Amd.5, Cl.5.1.3 (c & f): 2002 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



94 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
52.	Domestic Gas Stoves for use with LPG with toughened glass and glassware	Thickness	IS 14900: 2018 RA 2023/ IS: 17004: 2018 RA 2024
53.	Domestic Pressure Cooker	Air Pressure Test	IS 2347: 2023
54.	Domestic Pressure Cooker	Bursting Pressure Test	IS 2347: 2023
55.	Domestic Pressure Cooker	Capacity	IS 2347: 2023
56.	Domestic Pressure Cooker	Hardness Test for Hard Anodized Surface	IS 2347: 2023
57.	Domestic Pressure Cooker	Operating Test for Pressure Regulating Device	IS 2347: 2023
58.	Domestic Pressure Cooker	Proof Pressure Test	IS 2347: 2023
59.	Domestic Pressure Cooker	Resistance to Staining and Alkali Resistance of Anodized Coating	IS 2347: 2023
60.	Domestic Pressure Cooker	Safety Relief Device	IS 2347: 2023
61.	Domestic Pressure Cooker	Test For Induction Bottom	IS 2347: 2023
62.	Domestic Pressure Cooker	Test for Removal of Lid under Pressure	IS 2347: 2023

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[www.qai.org.in](http://www.qai.org.in)



95 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/Safety Test		
63.	Domestic Pressure Cooker	Test for Safety Pressure Relief Device	IS 2347: 2023
64.	Domestic Pressure Cooker	Test For Safety Pressure Relief Device	IS 2347: 2023
65.	Domestic Pressure Cooker	Test For Stainless Steel Cookers Composite Cooker Base/ Bottom	IS 2347: 2023

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[www.qai.org.in](http://www.qai.org.in)



96 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood & Wood Products		
1.	Block Board	Dimensional change caused by humidity	IS 1659: 2004, RA-2019: Cl.9.2.1 (Annex-E)
2.	Block Board	Edge Straightness	IS 1659: 2004, RA-2019: Cl.7.3
3.	Block Board	Mycological Test	IS 1659: 2004, RA-2019: (Annex-H): Cl.9.2.4
4.	Block Board	Resistance to water	IS 1659: 2004, RA-2019 Cl.9.2.2 (Annex F)
5.	Block Board	Spot Test	IS 1659: 2004, RA-2019: Cl 9.2.6 (Annex K)
6.	Block Board	Squareness	IS 1659: 2004, RA-2019: Cl 7.3
7.	Flush Door Shutter	Buckling	IS 4020 (P-9): 1998 RA-2013
8.	Flush Door Shutter	Edge Loading	IS 4020 (P-7): 1998 RA-2013
9.	Flush Door Shutter	Flexure Test	IS 4020 (P-6): 1998 RA-2013
10.	Flush door Shutter	General Flatness	IS 4020 (P-3): 1998 RA-2013
11.	Flush Door Shutter	Impact Indentation Test	IS 4020 (P-5): 1998 RA-2013
12.	Flush Door Shutter	Local Planeness	IS 4020 (P-4): 1998 RA-2013
13.	Flush Door Shutter	Misuse Test	IS 4020 (P-11): 1998 RA-2013

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[www.qai.org.in](http://www.qai.org.in)



97 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
14.	Flush Door Shutter	Screw Withdrawal Resistance Test	IS 4020 (P-16): 1988, RA-2013
15.	Flush Door Shutter	Shock Resistance Test	IS 4020 (P-8): 1998, RA-2013
16.	Flush Door Shutter	Slamming Dimensions	IS 4020 (P-10): 1998, RA-2013
17.	Flush door shutter	Squareness	IS 4020 (Part-2): 1998, RA-2018
18.	Flush Door Shutter	Varying Humidity	IS 4020 (P-12): 1998, RA-2018
19.	Flush Door Shutter	Workmanship and Finish	IS 2202 (Part-1):2023 Cl.9
20.	Marine Plywood	Tensile Strength	IS 1734(P-9) :1983 RA-2018
21.	Marine Plywood	Water Resistance	IS 1734 (P-6): 1983RA-2018
22.	Medium Density Fibre Boards for General Purpose	Finish	IS 12406: 2021 Cl.7
23.	Medium Density Fibre Boards for General Purpose	Internal Bond Strength	IS 2380 (P-5): 1977, RA-2018
24.	Medium Density Fibre Boards for General Purpose	Length	IS 12406: 2021 Cl.7 Table-2, S.No.1
25.	Medium Density Fibre Boards for General Purpose	Linear Expansion (Thickness Swelling in Water) after 24 h soaking	IS 2380 (P-17): 1977, RA-2018
26.	Medium Density Fibre Boards for General Purpose	Thickness	IS 12406: 2021 Cl.7 Table-2, S.No.3

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[www.qai.org.in](http://www.qai.org.in)



98 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
27.	Medium Density Fibre Boards for General Purpose	Width	IS 12406: 2021 Cl.7 Table-2, S.No.2
28.	Particle Board	Edge Straightness	IS 3087: 2005, RA-2020 Cl.8.3 S.No.4
29.	Particle Board	Finish	IS 3087: 2005, RA-2020 Cl.7
30.	Particle Board	Screw Withdrawal Strength	IS 2380 (P-14): 1977, RA 2018
31.	Particle Board	Squareness	IS 3087: 2005, RA-2020 Cl.8.3 S.No.5
32.	Particle Board	Tensile Strength Perpendicular to Surface	IS 2380 (P-5) :1977, RA 2018
33.	Particle Board	Thickness Swelling, 2h Soaking	IS 2380 (P-17):1977, RA-2018
34.	Plywood	Glue Adhesion after Mycological Test	IS 1734(P-5&7):1983, RA-2018
35.	Plywood	Workmanship And Finish	IS 303: 2024, Cl.9
36.	Prelaminated Medium Density Fibre Board	Finish	IS 14587: 2023 Cl.7
37.	Prelaminated Medium Density Fibre Board	Resistance to Cigarette Burn	IS 14587 (Annex-F):2023 Table-3, S No.16
38.	Prelaminated Medium Density Fibre Board	Resistance to Crack	IS 14587 (Annex-E):2023
39.	Prelaminated Medium Density Fibre Board	Resistance to Stain	IS 14587 (Annex-G):2023

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



99 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
40.	Prelaminated Medium Density Fibre Board	Resistance to Steam	IS 14587 (Annex-D):2023
41.	Prelaminated Medium Density Fibre Board	Surface Abrasion Resistance	IS 14587 (Annex-C):2023
42.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Abrasion Resistance	IS 12823 -2015, RA-2020(Annex-C)
43.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Crack Resistance	IS 12823 (Annex-E):2015, RA-2020
44.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Density	IS 2380 (Part-3): 1977, RA-2018
45.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Edge Straightness	IS 12823: 2015 RA-2020 Cl. 8.2
46.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Finish	IS 12823: 2015 RA-2020 Cl.7

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



100 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
47.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Length	IS 12823: 2015 RA-2020 Cl 8.1(4)
48.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Resistance to Cigarette Burn	IS 12823 (Annex-F): 2015 RA-2020
49.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Resistance to Stain	IS 12823 (Annex-G): 2015 RA-2020
50.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Resistance to Steam	IS 12823 (Annex-D): 2015 RA-2020
51.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Squareness	IS 12823: 2015 RA 2020 Cl.8.2
52.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Thickness	IS 12823: 2015 RA 2020 Cl.8.1 (E)
53.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Water Absorption	IS2380 (P-16): 1977, RA-2018

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[www.qai.org.in](http://www.qai.org.in)



101 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
54.	Prelaminated Particle Boards from Wood and Other Lignocelulosic Material	Width	IS 12823: 2015 RA 2020 Cl.8.1(B)
55.	Synthetic Resin Adhesives for Plywood	Acidity and Alkalinity (pH)	IS 848 (Annex-B): 2006- RA-2022 Cl.7.4
56.	Synthetic Resin Adhesives for Plywood	BWP (Boiling Water Proof)	IS 848: 2006 RA 2022 Cl.4 Table-1, S.No.1
57.	Synthetic Resin Adhesives for Plywood	BWR (Boiling Water Resistant)	IS 848: 2006 RA 2022 Cl.4 Table-1, S.No.3
58.	Synthetic Resin Adhesives for Plywood	Keeping Quality (Resistance to heat polymerizatin)	IS 848: 2006 RA 2022 Cl.5
59.	Synthetic Resin Adhesives for Plywood	MR (Moisture Resistant)	IS 848: 2006 RA 2022 Cl.4 Table-1, S.No.3
60.	Block Board	Adhesion of Plies	IS 1659: 2004, (RA 2019), Cl.9.2.3 (Annex-G)
61.	Block Board	Width	IS 1659: 2004, (RA 2019), Cl.7.3
62.	Block Board	Height	IS 1659: 2004, (RA 2019), Cl.7.3
63.	Block Board	Modulus Of Elasticity	IS 1734 (Part 11): 1983, RA-2018
64.	Block Board	Modulus Of Rupture	IS 1734 (Part 11): 1983, RA-2018
65.	Block Board	Thickness	IS 1659: 2004, (RA 2019), Cl.7.3

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[www.qai.org.in](http://www.qai.org.in)



102 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
66.	Fire Retardant Plywood	Edge Straightness	IS 5509: 2021 Cl.8.3, Table-1 S.No.4
67.	Fire Retardant Plywood	Flame Penetration	IS 1734 (P-3): 1984, Cl.4, RA-2018
68.	Fire Retardant Plywood	Flammability	IS 1734 (P-3): 1983, Cl.3, RA-2018
69.	Fire Retardant Plywood	Length	IS 5509: 2021 S.No.1
70.	Fire Retardant Plywood	Rate of burning	IS 1734 (P-3): 1983, Cl.5, RA-2018
71.	Fire Retardant Plywood	Squareness	IS 5509: 2021 Cl.8.3, Table-1 S.No.4
72.	Fire Retardant Plywood	Thickness	IS 5509: 2021 Cl.8.3, Table-1 S.No.3
73.	Fire Retardant Plywood	Width	IS 5509: 2021 Cl.8.3, Table-1 S.No.2
74.	Fire Retardant Plywood	Workmanship and Finish	IS 5509: 2021 Cl.9
75.	Flush Door	Glue Adhesion	IS 4020 (Part 15) : 1998, (RA 2018)
76.	Flush Door Shutter	End Immersion Test	IS 4020 (Part 13): 1998, (RA 2018)
77.	Flush Door Shutter	Height	IS 2202 (Part-1): 2023, Cl.5, Table-2
78.	Flush Door Shutter	Knife Test	IS 4020 (part 14): 1998, (RA 2018)
79.	Flush Door Shutter	Thickness	IS 2202 (Part-1): 2023, Cl.5, Table-2
80.	Flush Door Shutter	Width	IS 2202 (Part-1): 2023, Cl.5, Table-2
81.	Marine Ply Wood	Height	IS 710: 2024 Cl.6.4, Table-2, S No.1
82.	Marine Ply Wood	Thickness	IS 710: 2024 Cl.6.4, Table-2, S No.3
83.	Marine Ply Wood	Width	IS 710: 2024 Cl.6.4, Table-2, S No.2
84.	Marine Ply wood	Adhesion of Plies	IS 1734 (Part 5): 1983, (RA 2018)
85.	Marine Plywood	Edge Straightness	IS 710: 2024 Cl.6.4, Table-2, S No.4

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[www.qai.org.in](http://www.qai.org.in)



103 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
86.	Marine Plywood	Glue Shear Strength	IS 1734 (Part 4) : 1983,(RA 2018)
87.	Marine Plywood	Moisture Content	IS 1734 (Part 1) :1983 (RA 2018)
88.	Marine Plywood	Retention of Preservatives	IS 2753 (Part-1): 1991 RA 2020 & (Part-2) : 2014 Ra 2019
89.	Marine Plywood	Squareness	IS 710: 2024 Cl.6.4, Table-2, S No.4
90.	Marine Plywood	Static Bending Strength (MOE)	IS 1734 (Part 11): 1983 (RA 2018)
91.	Marine Plywood	Static Bending Strength (MOR)	IS 1734 (Part 11): 1983 (RA 2018)
92.	Marine Plywood	Workmanship and Finish	IS 710: 2024 Cl.6.4, Table-2, S No.7
93.	Particle Board	Height	IS 3087: 2005, (RA 2020) Cl 8.3 S.No.1
94.	Particle Board	Modulus Of Elasticity	IS 2380 (part 4): 1977, (RA 2018)
95.	Particle Board	Modulus of Rupture	IS 2380 (Part 4) : 1977, (RA 2018)
96.	Particle Board	Moisture Content	IS 2380 (Part 3): 1977, (RA 2018)
97.	Particle Board	Thickness	IS 3087: 2005, (RA 2020), Cl 8.3 S.No.3
98.	Particle Board	Water Absorption	IS 2380 (Part-16):1977, RA 2018
99.	Particle Board	Width	IS 3087: 2005, (RA 2020), Cl 8.3 S.No.2
100.	Plywood	Edge Straightness	IS 303: 2024Cl.8.4 Table 3, S No.5
101.	Plywood	07 Plies Adhesion	IS 1734 (Part 5) :1983, (RA 2018)
102.	Plywood	Glue Shear Strength	IS 1734 (Part 4) :1983, (RA 2018)
103.	Plywood	Height	IS 303: 2024 Cl.8.4 Table 3, S No.1
104.	Plywood	Moisture Content	IS 1734 (Part 1): 1983, (RA 2013)

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[www.qai.org.in](http://www.qai.org.in)



104 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood &amp; Wood Products</b>		
105.	Plywood	Squareness	IS 303: 2024 Cl.8.4 Table 3, S No.4
106.	Plywood	Static Bending Strength (MOE)	IS 1734 (Part 11): 1983, (RA 2018)
107.	Plywood	Static Bending Strength (MOR)	IS 1734 (Part 11): 1983, (RA 2018)
108.	Plywood	Thickness	IS 303: 2024 Cl.8.4 Table 3, S No.3
109.	Plywood	Water Resistance	IS 1734 (P-6): 1983, RA 2018
110.	Plywood	Width	IS 303: 2024 Cl.8.4 Table 3, S No.2
111.	Plywood for Concrete Shuttering Works	Edge Straightness	IS 4990 :2024, Cl.7.4, S No.5
112.	Plywood for Concrete Shuttering Works	Length	IS 4990 :2024, Cl.7.4, S No.1
113.	Plywood for Concrete Shuttering Works	Resistance to Water	IS 4990 :2024, Cl.10.5
114.	Plywood for Concrete Shuttering Works	Squareness	IS 4990 :2024, Cl.7.4, S No.4
115.	Plywood for Concrete Shuttering Works	Thickness	IS 4990 :2024, Cl.7.4, S No.3
116.	Plywood for Concrete Shuttering Works	Width	IS 4990 :2024, Cl.7.4, S No.2
117.	Plywood for Concrete Shuttering Works	Workmanship and Finish	IS 4990 :2024, Cl.8
118.	Timber /wood	Density	IS 1708 (Part 2):1986, RA 2020

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[www.qai.org.in](http://www.qai.org.in)



105 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood & Wood Products		
119.	Timber /wood	Determination of static bending (MOR & MOE)	IS 1708 (Part 5&6): 1986, (RA 2020)
120.	Timber /wood	Moisture Content	IS 1708 (Part 1): 1986, (RA 2020)
121.	Timber /wood	Specific Gravity	IS 1708 (Part 2):1986, RA 2020
122.	Wood / Doors and Window Frame	Moisture Content	IS 11215: 1991, (RA 2020)

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[www.qai.org.in](http://www.qai.org.in)



106 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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### Scope of Accreditation

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
1.	Rubber Gasket For Pressure Cookers	Change in hardness after ageing at 100°C for 3-days	IS 3400(P-1) 2021 & (P-4): 2012 RA 2017
2.	Rubber Gasket For Pressure Cookers	Compression Set	IS 3400 (P-10/S-2): 2022
3.	Rubber Gasket For Pressure Cookers	Dimensions	Cl.3.3 of IS 7466: 1994
4.	Rubber Gasket For Pressure Cookers	Elongation after ageing at 100°C for 3-days	IS 3400 (P-1) 2021 & (P-4): 2012 RA 2017
5.	Rubber Gasket For Pressure Cookers	Elongation at Break	IS 3400 (P-4): 2012 RA 2017
6.	Rubber Gasket For Pressure Cookers	Tensile Strength	IS 3400(P-1): 2021
7.	Rubber Gasket For Pressure Cookers	Tensile strength after ageing at 100°C for 3 days	IS 3400 (P-1) 2021 & (P-4): 2012 RA 2017
8.	Rubber Gasket For Pressure Cookers	Tensile strength and Elongation after ageing in autoclave for 8-hours steam pressure of 100 K N/m2	IS 3400 (P-1) 2021 & (P-4): 2012 RA 2017

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[www.qai.org.in](http://www.qai.org.in)



107 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
9.	Rubber Gasket For Pressure Cookers	Volume change after ageing in autoclave for 8-hours steam pressure of 100 K N/m <sup>2</sup>	IS 3400 (P-2): 2014 RA 2019
10.	Rubber Gasket For Pressure Cookers	Workmanship And Finish	Cl.3.2 of IS 7466: 1994
11.	Rubber & Rubber Allied Products	Compression Test	ASTM D 395: 2018 / IS 3400 (Part 2): 2014 RA 2019
12.	Rubber & Rubber Allied Products	Density	ASTM D 297: 2015 / IS 3400 (Part 9): 2020
13.	Rubber & Rubber Allied Products	Elongation at Break	ASTM D 412: 2016 / IS 3400 (Part 1): 2021
14.	Rubber & Rubber Allied Products	Hardness Shore A	ASTM D 2240: 2015 / IS 3400 (Part 2): 2014 RA 2019
15.	Rubber & Rubber Allied Products	Specific Gravity	ASTM D 297: 2015 / IS 3400 (Part 9): 2020
16.	Rubber & Rubber Allied Products	Tensile Strength	ASTM D 412: 2016 / IS 3400 (Part 1): 2021
17.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Accelerated Ageing Test	IS 3400 (P-4): 2012 RA 2017

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[www.qai.org.in](http://www.qai.org.in)



108 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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### Scope of Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
18.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Accelerated Ageing Test	IS 443: 1975
19.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Adhesion	IS 3400 (P-24): 2021
20.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Bore size	IS 443: 1975
21.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Burning Behaviour	IS 9573 (P-1&2): 2017
22.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Construction	IS 444: 2017 RA 2018
23.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Electrical Continuity Test	IS 9573 (P-1): 2017
24.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Elongation at break	IS 443: 1975

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109 of 273

# Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
25.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Flexibility of hose	IS 9573 (P-1&2): 2017
26.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Grip Strength Test	IS 9573 (P-2): 2017
27.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Hydrostatic Pressure Test (Bursting Pressure)	IS 443: 1975
28.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Hydrostatic Pressure Test (Change in Diameter at proof Pressure)	IS 443: 1975
29.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Hydrostatic Pressure Test (Change in Length at proof Pressure)	IS 443: 1975
30.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Hydrostatic Pressure Test (Proof Pressure)	IS 443: 1975
31.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Length	IS 447: 2017 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



110 of 273

# Quality And Accreditation Institute

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(formerly Centre for Laboratory Accreditation)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
32.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Length	IS 9537 (Part-1): 2017
33.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Length	IS 9573 (P-2): 2017
34.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Lining and Cover Thickness	IS 443: 1975
35.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Loss of mass on heating	IS 12585: 2023
36.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Low Temperature Flexibility	IS 12657: 2014 RA 2019
37.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Low temperature flexibility	IS 9573 (P-1&2): 2017
38.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Minimum Bend Radius	IS 12656: 2014 RA 2019

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[www.qai.org.in](http://www.qai.org.in)



111 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rubber &amp; Rubber Products</b>		
39.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Ozone Resistance	IS 9573 (P-1&2): 2017
40.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Resistance of Lining to n-pentane (absorbed)	IS 9573 (P-1): 2017
41.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Resistance of Lining to n-pentane (extractable)	IS 9573 (P-1): 2017
42.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Swelling test	IS 3400 (P-5) 2022 & (P-6): 2018
43.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Tensile Strength of Lining and cover	IS 443: 1975
44.	Rubber & Rubber Allied Products (Rubber hoses, gaskets, seals, sheets, tubes)	Construction	IS 12585: 2023

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



112 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

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(Name change w.e.f.: 09 April 2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
1.	Soil	California Bearing Ratio	IS 2720 (Part 16) :1987 RA 2021
2.	Soil	Grain Size Analysis (63 to 0.075 mm size)	IS 2720 (Part 4): 1985 RA 2020
3.	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8): 1983 RA 2020
4.	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8): 1983 RA 2020
5.	Soil	Light Compaction (MDD)	IS 2720 (Part 7): 1980 (RA 2021)
6.	Soil	Light Compaction (OMC)	IS 2720 (Part 7): 1980, (RA 2021)
7.	Soil	Liquid Limit	IS 2720 (Part 5): 1985 RA 2020
8.	Soil	Plastic Limit	IS 2720 (Part 5): 1985 RA 2020
9.	Soil	Specific Gravity	IS 2720 (Part3/Sec1): 1980 RA 2021
10.	Soil	Unconfined Compressive Strength	IS 2720 (Part-10): 1991 RA 2020
11.	Soil	Water Content by Oven Drying	IS 2720 (Part 2): 1983 RA 2020
12.	Soil, Fly Ash, GSB, WBM, WMM, Blanketing Material	Direct shear test Cohesion intercept C Value Internal friction f value	IS 2720 (P-13): 1986, RA 2021

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[www.qai.org.in](http://www.qai.org.in)



113 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Soil &amp; Rock</b>		
13.	Soil, Fly Ash, GSB, WBM, WMM, Blanketing Material	Free Swell Index	IS 2720 (Part-40): 1977 RA 2021
14.	Soil, Fly Ash, GSB, WBM, WMM, Blanketing Material	Permeability Test (K- value Test)	IS 2720 (Part-36): 1987 RA 2021
15.	Bentonite	Moisture Content	IS 6186: 1986 RA 2024
16.	Bentonite	Sand Content	IS 6186: 1986 RA 2024
17.	Bentonite	Swe ling Power	IS 6186: 1986 RA 2024
18.	GSB/WMM/WBM/CRM	Flakiness Index	IS 2386 (P-1): 1963, RA 2021
19.	GSB/WMM/WBM/CRM	Grain Size Analysis	IS 2386 (P-1): 1963, RA 2021
20.	GSB/WMM/WBM/CRM	Impact Value	IS 2386 (P-4): 1963, RA 2021
21.	GSB/WMM/WBM/CRM	Liquid Limit	IS 2720 (P-5): 1985, RA 2020
22.	GSB/WMM/WBM/CRM	Loss Angles Abrasion Value	IS 2386 (P-4): 1963, RA 2021
23.	GSB/WMM/WBM/CRM	Maximum Dry Density	IS 2720 (P-8): 1980, RA 2020
24.	GSB/WMM/WBM/CRM	Optimum Moisture Content	IS 2720 (P-8): 1980, RA 2020
25.	GSB/WMM/WBM/CRM	Plastic Limit	IS 2720(P-5): 1985, RA 2020
26.	GSB/WMM/WBM/CRM	Water Absorption	IS 2386 (P-3): 1963, RA 2021

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114 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
27.	GSB/WMM/WBM/CRM	C.B. R	IS 2720 (P-16): 1987, (RA 2021)
28.	GSB/WMM/WBM/CRM	Elongation Index (Max. size 50 mm)	IS 2386 (P-1): 1963, RA 2021
29.	Soil	Dry Density of Soil (By Core Cutter method)	IS 2720 (P-29): 1975, RA 2020
30.	Soil	Standard Penetration Test (Soil Investigation Test)	IS 2131: 1981 RA 2021
31.	Soil	Plate Load Test	IS 1888: 1982, RA 2021
32.	Soil/GSB/WMM/WBM	Dry Density of Soil (By Sand replacement Method)	IS 2720 (P-28): 1974, RA 2020
33.	Natural Building Stone (Marble/Granite/Stone)	Apparent Porosity	IS 1124: 1974, (RA 2017)
34.	Natural Building Stone (Marble/Granite/Stone)	Compressive Strength	IS 1121 (Part 1): 2023
35.	Natural Building Stone (Marble/Granite/Stone)	Dry Density	IS 13030: 1991, RA 2021
36.	Natural Building Stone (Marble/Granite/Stone)	Moh's Hardness	IS 13630 (P-13): 2019
37.	Natural Building Stone (Marble/Granite/Stone)	Moisture Content	IS 13030: 1991, RA 2021

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[www.qai.org.in](http://www.qai.org.in)



115 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
38.	Natural Building Stone (Marble/Granite/Stone)	Specific Gravity	IS 1122: 2023
39.	Natural Building Stone (Marble/Granite/Stone)	Water Absorption / Moisture Absorption	IS 1124: 1974, (RA 2017)
40.	Rock / Natural Stone	Durability	IS 1126: 2013 RA 2023
41.	Rock / Natural Stone	Resistance to wear	IS 1706:2024
42.	Rock / Natural Stone	Transverse Strength	IS 1122 (Part-2): 2013

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[www.qai.org.in](http://www.qai.org.in)



116 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials - Reinforced Concrete Structures		
1.	Concrete	Carbonation Test (Core Method)	IS 516 (P-5/Sec-3): 2021
2.	Concrete	Ultrasonic Pulse Velocity	IS 516 (P-5/Sec-1): 2018
3.	Hardened Concrete	Crack Depth by Ultrasonic Pulse Velocity	IS 516 (Part-5/Sec-1) 2018
4.	Anchor bars / Rock Bolt	Pul out test (Anchorage Capacity)	IS 11309 2023
5.	Anchor bars / Rock Bolt	Pul out test bond strength)	IS 11309 2023
6.	Reinforcement Concrete	Rebound Hammer	IS 13311 (P-2) 1992
7.	Reinforcement Concrete	Rebound Hammer	IS 516 (P-5/Sec 4): 2020
8.	Reinforcement Concrete	Half-cell potentials of Uncoated Reinforcing Steel in Concrete	ASTM C876 22b
9.	Reinforcement Concrete	Half-cell potentials of Uncoated Reinforcing Steel in Concrete	IS 516 (Part-5/Sec-2)

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[www.qai.org.in](http://www.qai.org.in)



117 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida  
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Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal & Alloys		
1.	Ferrous Metal	Ultrasonic Testing	ASME-Sec-V Article 4 / ASTM A435/ ASTM A435 M-17/ ASTM A577 M-17/ ASTM A577
2.	Ferrous / Non-Ferrous Metal	Liquid Penetration Test	ASME BPVC Sec-V-2023

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[www.qai.org.in](http://www.qai.org.in)



118 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
1.	Aluminium Paints for General Purpose	Drying Time	IS 101 (P-3/S-1): 2023
2.	Aluminium Paints for General Purpose	Consistency	IS 2339 – 2013 Annex B
3.	Aluminium Paints for General Purpose	Finish	IS 101 (P-3/S-4) – 1987 RA 2019
4.	Aluminium Paints for General Purpose	Mass, kg/10L	IS 101 (P-1/S-7) - 2020
5.	Aluminium Paints for General Purpose	Wet Opacity	IS 101 (P-4/S-1) 1988 RA 2019
6.	Aluminium Paints for General Purpose	Flexibility and Adhesion	IS 101 (P-5/S-2) 1988 RA 2019
7.	Aluminium Paints for General Purpose	Resistance to Humidity under condition of condensation	IS 101 (P-6/S-1) 1988 RA 200
8.	Aluminium Paints for General Purpose	Flash Point	IS 101 (P-1/S-6) – 1987 RA 2019
9.	Aluminium Paints for General Purpose	Keeping Properties	IS 101 (P-6/S-2) – 1989 RA 2019

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



119 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
10.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Consistency	IS 104 - 2017 Annex C
11.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Finish	IS 101 (P-3/S-4) – 1987 RA 2019
12.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Drying time (Hard dry)	IS 101 (P-3/S-1): 2023
13.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Mass, kg/10L	IS 101 (P-1/S-7) - 2020
14.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Colour	IS 101 (P-4/S-2) 2021
15.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Wet Opacity	IS 101 (P-4/S-1) 1988 RA 2019w
16.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Flexibility & Adhesion	IS 101 (P-5/S-2) 1988 RA 2019
17.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Flash Point	IS 101 (P-1/S-6) – 1987 RA 2019
18.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Resistance to Humidity under condition of condensation	IS 101 (P-6/S-1) 1988

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



120 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
19.	Ready Mixed Paint, Brushing, Zinc Chrome, Priming	Keeping Properties	IS: 101 (P-6/S-2) 1989 RA 2019
20.	Paint, Brushing, Wood Primer	Drying Time	IS: 101 (P-3/S-1): 2023
21.	Paint, Brushing, Wood Primer	Consistency	IS: 3536 2016 Annex B
22.	Paint, Brushing, Wood Primer	Mass, kg/10L	IS: 101 (P-1/S-7) - 2020
23.	Paint, Brushing, Wood Primer	Finish	IS: 101 (P-3/S-4) – 1987 RA 2019
24.	Paint, Brushing, Wood Primer	Colour	IS: 101 (P-4/S-2) 2021
25.	Paint, Brushing, Wood Primer	Flexibility & Adhesion	IS: 101 (P-5/S-2) 1988 RA 2019
26.	Paint, Brushing, Wood Primer	Flash Point	IS: 101 (P-1/S-6) – 1987 RA 2019
27.	Paint, Brushing, Wood Primer/ PU Full Gloss Enamel	Volume Solids	IS: 101 (P-8/S-6) 1993
28.	Paint, Brushing, Wood Primer	Water Content	IS: 101 (P-2/S-1) 2018
29.	Paint, Brushing, Wood Primer	Resistance to water	IS: 3536 2016 Annex C
30.	Paint, Brushing, Wood Primer	Keeping properties	IS: 101 (P-6/S-2) 1989

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[www.qai.org.in](http://www.qai.org.in)



121 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
31.	Washable Distemper /PU Full Gloss Enamel	Drying time	IS: 428 2013 Annex B
32.	Washable Distemper	Consistency	IS: 428 2013 Annex C
33.	Washable Distemper / PU Full Gloss Enamel	Finish	IS: 101 (P-3/S-4) – 1987 RA 2019
34.	Washable Distemper/PU Full Gloss Enamel	Colour	IS: 101 (P-4/S-2) 2021
35.	Washable Distemper	Fastness to Light	IS: 101 (P-4/S-3) 1988
36.	Washable Distemper	Residue on sieve	IS: 428 2013 Annex D
37.	Washable Distemper	Recoating Properties	IS: 428 2013 Annex E
38.	Washable Distemper	Resistance to Alkali	IS: 428 2013 Annex F
39.	Washable Distemper	Accelerated Storage Stability	IS: 428 2013 Annex G
40.	Paint, Plastic Emulsion	Consistency	IS: 15489 2013 Annex B
41.	Paint, Plastic Emulsion	Drying time	IS: 15489 2013 Annex D
42.	Paint, Plastic Emulsion	Finish	IS: 15489 2013 Annex D

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[www.qai.org.in](http://www.qai.org.in)



122 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
43.	Paint, Plastic / PU Full Gloss Enamel Emulsion	Gloss at 60°	IS: 101 (P-4/S-4) 2020
44.	Paint, Plastic Emulsion	Colour	IS: 15489 2013 Annex E
45.	Paint, Plastic Emulsion	Fastness to Light	IS: 101 (P-4/S-3) 1988
46.	Paint, Plastic Emulsion	Resistance to Alkali	IS: 15489 2013 Annex F
47.	Paint, Plastic Emulsion	Washability and Cleanability	IS: 15489 2013 Annex G
48.	Paint, Plastic Emulsion	Accelerated Storage Stability	IS: 15489: 2013 Annex H
49.	Paint, Plastic Emulsion	Recoating Properties	IS: 15489: 2013 Annex J
50.	PU Full Gloss Enamel	Consistency	IS: 13213-2018 (Annex C)
51.	PU Full Gloss Enamel	Pot Life	IS: 13213-2018 (Annex D)
52.	PU Full Gloss Enamel	Accelerated Test	IS: 13213-2018 (Annex C)
53.	PU Full Gloss Enamel	Fineness to grind	IS: 101 (P-3/S-5) 2022
54.	Epoxy Enamel	Consistency	IS: 14209-2016 (Annex B)
55.	Epoxy Enamel	Pot Life	IS: 14209-2016 (Annex C)

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[www.qai.org.in](http://www.qai.org.in)



123 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Paints &amp; Surface Coating</b>		
56.	Epoxy Enamel	Resistance to acid/alkali	IS: 14209-2016 (Annex D)
57.	Epoxy Enamel	Drying Time	IS: 101 (P-3/S-1): 2023
58.	Epoxy Enamel / PU Full Gloss Enamel	Mass, kg/10L	IS: 101 (P-1/S-7) - 2020
59.	Epoxy Enamel / PU Full Gloss Enamel	Flexibility & Adhesion	IS: 101 (P-5/S-2) - 1988
60.	Epoxy Enamel / PU Full Gloss Enamel	Flash Point	IS 101 (P-1/S-6) – 1987 RA 2019
61.	Epoxy Enamel	Finish	IS 101 (P-3/S-4) – 1987 RA 2019
62.	Epoxy Enamel	Colour	IS 101 (P-4/S-2) 2021
63.	Epoxy Enamel	Gloss at 60°	IS 101 (P-4/S-4) 2020
64.	Epoxy Enamel	Flexibility & Adhesion	IS 101 (P-5/S-2) – 1988 RA 2019
65.	Epoxy Enamel/ PU Full Gloss Enamel	Keeping properties	IS 101 (P-6/S-2) 1989 RA 2019
66.	Epoxy Enamel/ PU Full Gloss Enamel	Dry Film Thickness	IS 101 (P-3/S-2) 1989 RA 2019
67.	Thermoplastic Paint	Binder Content	BS – 3262 (P-1) - 1989

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[www.qai.org.in](http://www.qai.org.in)



124 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Paints & Surface Coating		
68.	Thermoplastic Paint	Glass Beads Content	BS – 3262 (P-1) - 1989
69.	Thermoplastic Paint	Titanium dioxide	IS: 1527 – 1972 RA 2022
70.	Thermoplastic Paint	Calcium carbonate & Inert Filler	IS 8767 - 2020
71.	Thermoplastic Paint	Softening Point	ASTM D-36
72.	Thermoplastic Paint	Drying Time	IS 101 (P-3/S-1): 2023
73.	Thermoplastic Paint	Low Temperature Crack resistance	ASTM D-5147

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[www.qai.org.in](http://www.qai.org.in)



125 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil & Rock		
1.	Soil	pH	IS 2720 (Part 26): 1987 (RA 2021)
2.	Soil	Total soluble Sulphate	IS 2720 (Part 27): 1977 (RA 2020)
3.	Soil	Calcium Carbonates	IS 2720 (Part 23): 1976 (RA 2020)
4.	Soil	Total Soluble Salts	IS 2720 (Part 21): 1977 (RA 2020)
5.	Soil	Organic matter	IS 2720 (Part 22): 1972 (RA 2020)

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[www.qai.org.in](http://www.qai.org.in)



126 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
1.	Aluminium its Alloys and Products	Manganese	IS 504: 1963 RA 2023
2.	Aluminium its Alloys and Products	Boron	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
3.	Aluminium its Alloys and Products	Iron	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
4.	Aluminium its Alloys and Products	Magnesium	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021 / IS 504 : 1963, RA 2019
5.	Aluminium its Alloys and Products	Zinc	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
6.	Aluminium its Alloys and Products	Chromium	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
7.	Aluminium its Alloys and Products	Lead	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
8.	Aluminium its Alloys and Products	VANADIUM	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
9.	Aluminium its Alloys and Products	Aluminium	IS 737: 2024/ IS 504: 1963 RA 2023 / IS 1285: 2023
10.	Aluminium its Alloys and Products	Copper	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



127 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
11.	Aluminium its Alloys and Products	Manganese	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
12.	Aluminium its Alloys and Products	Silicon	IS 504: 1963 RA 2023
13.	Aluminium its Alloys and Products	Titanium	ITL/SOP/CHE/01, Issue No. 00, Issue Date 05.01.2021: 2021
14.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Bismuth	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
15.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Copper	IS 440: 1964, RA 2018
16.	Copper and Its Alloys (Leaded Brass Copper and Bronze )	Copper Purity Test	IS 191: 2007 RA 2021
17.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Phosphorus	IS 440: 1964, RA2018
18.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Selenium	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
19.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Silver	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
20.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Oxygen	IS 440: 1964 RA 2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



128 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
21.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Aluminium	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
22.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Arsenic	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
23.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Lead	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021 / IS 3685: 1966, RA 2018
24.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Manganese	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
25.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Nickel	IS 3685: 1966, RA 2018 / ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021:2021
26.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Tin	IS 3685: 1966, RA 2018
27.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Zinc	IS 3685: 1966, RA 2018
28.	Copper and Its Aloys (Leaded Brass Copper and Bronze)	Antimony	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
29.	Copper and Its Aloys (Leaded Brass Copper and Bronze)	Iron	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021

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129 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
30.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Sulphur	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
31.	Copper and Its Alloys (Leaded Brass Copper and Bronze)	Tellurium	ITL/SOP/CHE/02, Issue No. 00, Issue Date 05.01.2021: 2021
32.	Mild Steel	Aluminium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021: 2021
33.	Mild Steel	Boron	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
34.	Mild Steel	Cadmium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
35.	Mild Steel	Calcium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
36.	Mild Steel	Carbon	IS 228 (Part 1): 1987, RA 2018
37.	Mild Steel	Carbon Equivalent (CE)	IS 1786: 2008 RA 2018
38.	Mild Steel	Carbon Equivalent (CE)	IS 2062:2011, RA 2021
39.	Mild Steel	Chromium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
40.	Mild Steel	Copper	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021

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[www.qai.org.in](http://www.qai.org.in)



130 of 273

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
41.	Mild Steel	Manganese	IS 228 (Part 2): 1987, RA 2018
42.	Mild Steel	Mass of Zinc Coating	IS 1573: 1986 RA 2021
43.	Mild Steel	Molybdenum	ITL/SOP/CHE/03, Issue No. 00 Issue Date: 05/01/2021:2021
44.	Mild Steel	Nickel	ITL/SOP/CHE/03, Issue No. 00, Issue Date: 05/01/2021:2021
45.	Mild Steel	Niobium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
46.	Mild Steel	Nitrogen	IS 228 (Part- 19): 1998 RA 2021
47.	Mild Steel	Phosphorous	IS 228 (Part 3): 2021, RA 2018
48.	Mild Steel	Silicon	IS 228 (Part 8): 1989 RA 2023
49.	Mild Steel	Sulphur	IS 228 (Part 9): 1989 RA 2023
50.	Mild Steel	Tin	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
51.	Mild Steel	Titanium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021
52.	Mild Steel	Vanadium	ITL/SOP/CHE/03, Issue No. 00, Issue Date 05.01.2021:2021

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[www.qai.org.in](http://www.qai.org.in)



131 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
53.	Plain Carbon Steel	Carbon	IS 228 (Part 1): 2008, RA 2018
54.	Plain Carbon Steel	Chromium	IS 228 (Part 6): 1987, RA 2018
55.	Plain Carbon steel	Copper	IS 228 (Part 15): 1992, RA 2019
56.	Plain Carbon Steel	Molybdenum	IS 228 (Part 7): 1990, RA 2018
57.	Plain Carbon Steel	Nickel	IS 228 (Part 5): 1987 RA 2023
58.	Plain Carbon Steel	Phosphorus	IS 228 (Part 3): 1987, RA 2018
59.	Plain Carbon Steel	Silicon	IS 228 (Part 8):1989, RA 2023
60.	Plain Carbon Steel	Sulphur	IS 228 (Part 9): 1989, RA 2023
61.	Stainless Steel	Carbon	IS 228 (Part 1): 1987, RA 2018
62.	Stainless Steel	Sulphur	IS 228 (Part 9): 1989, RA 2023
63.	Stainless Steel	Chromium	IS 228 (Part 6): 1987 RA 2018
64.	Stainless Steel	Copper	ITL/SOP/CHE/04, Issue No. 00, Issue Date 05.01.2021: 2021
65.	Stainless Steel	Manganese	IS 228 (Part 2): 1987 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



132 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
66.	Stainless Steel	Molybdenum	ITL/SOP/CHE/04, Issue No. 00, Issue Date 05.01.2021: 2021
67.	Stainless Steel	Nickel	IS 228 (Part 5): 1987 RA 2023
68.	Stainless Steel	Silicon	IS 228 (Part 8): 1989, RA 2023
69.	Stainless Steel	Phosphorus	IS 228 (Part 3) :1987, RA 2018
70.	Stainless Steel	Nitrogen	IS 228 (Part-19): 1998 RA 2021
71.	Ferrosilicon/ Silicomanganese/ Ferromanganese	Extraneous Contamination	IS 1110-2023 & IS: 1470-2013 & IS 1171-2011
72.	Ferrosilicon/ Ferromanganese	Aluminium	IS 1559: 1982
73.	Ferrosilicon	Boron	ITL/SOP/CHE/04: 2024
74.	Ferrosilicon	Calcium	IS 1559: 1982
75.	Ferrosilicon/ Silicomanganese/ Ferromanganese	Carbon	IS 1559: 1982
76.	Ferrosilicon/ Silicomanganese/ Ferromanganese	Particle Size Designation	IS 1110-2023 & IS 1470-2013 & IS 1171-2011
77.	Ferrosilicon/ Silicomanganese/ Ferromanganese	Phosphorus	IS 1559: 1982

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[www.qai.org.in](http://www.qai.org.in)



133 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
78.	Ferrosilicon/Silicomanganese/ Ferromanganese	Silicon	IS 1559: 1982
79.	Ferrosilicon/ Silicomanganese/ Ferromanganese	Sulphur	IS: 1559: 1982
80.	Ferrosilicon	Titanium	ITL/SOP/CHE/04: 2024
81.	Ferrosilicon	Zirconium	ITL/SOP/CHE/04: 2024
82.	Ferrosilicon/Silicomanganese/ Ferromanganese	Manganese	ITL/SOP/CHE/04: 2024
83.	Ferrosilicon	Iron	IS 1110-2023
84.	Metallic Coating (Ferrous & Non-Ferrous)	Adhesion Test	IS 2629: 1985, RA 2021

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[www.qai.org.in](http://www.qai.org.in)



134 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
1.	Waste Water (STP, ETP, WWTP)	Bio-Chemical Oxygen Demand (for 3 days at 27°C)	IS 3025 (Part 44) : 2023
2.		Chemical Oxygen Demand	IS 3025 (Part 58):2023
3.		Conductivity (at 25°C)	IS 3025 (Part 14) :2013, RA 2023
4.		Oil & grease	IS 3025 (Part 39) :2021
5.		pH	IS 3025 (Part 11):2022
6.		Phosphorus (as P)	IS 3025 (Part 31/Sec 1): 2022
7.		Potassium (as K)	IS 3025 (Part 45):2024
8.		Sodium (as Na)	IS 3025 (Part 45) :2024
9.		Total Dissolved Solids	IS 3025 (Part 16): 2023
10.		Total Suspended Solids	IS 3025 (Part 17):2022

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[www.qai.org.in](http://www.qai.org.in)



135 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

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Valid until: 10 September 2026

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 2023
2.	Drinking Water	Calcium (as Ca)	IS 3025 (Part 40): 2024
3.	Drinking Water	Chloride (as Cl)	IS 3025 (Part 32): 1988 RA 2019
4.	Drinking Water	Colour	IS 3025 (Part 4): 2021
5.	Drinking Water	Fluoride	IS: 3025 (Part- 60): 2008 RA 2019
6.	Drinking Water	Iron (as Fe)	IS 3025 (Part 53): 2024
7.	Drinking Water	Magnesium (as Mg)	IS 3025 (Part 46): 2024
8.	Drinking Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988
9.	Drinking Water	Odour	IS 3025 (Part 5): 2018
10.	Drinking Water	pH value	IS 3025 (Part 11): 2022
11.	Drinking Water	Residual Free Chlorine	IS 3025 (Part 26) :2021
12.	Drinking Water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24/ Sec 1): 2022
13.	Drinking Water	Taste	IS 3025 (Part 7): 2017 RA 2022 & IS

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136 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
			3025 (Part 8) : 2023
14.	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16): 2023
15.	Drinking Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009 RA 2023
16.	Drinking Water	Turbidity	IS 3025 (Part 10): 2023
17.	Water for construction purpose	Chloride	IS 3025 (Part 32): 1988
18.	Water for construction purpose	Inorganic Solid	IS 3025 (Part 18): 2022
19.	Water for construction purpose	Neutralization of 100 ml Water in 0.02N H <sub>2</sub> SO <sub>4</sub>	IS 456: 2000
20.	Water for construction purpose	Neutralization of 100 ml Water in 0.02N NaOH	IS 456: 2000
21.	Water for construction purpose	Organic Solid	IS 3025 (Part 18): 2022
22.	Water for Construction purpose	pH value	IS 3025 (Part 11): 2022
23.	Water for Construction purpose	Sulphate (as SO <sub>3</sub> )	IS 3025 (Part 24/ Sec 1): 2022
24.	Water for Construction purpose	Total Suspended Solids	IS 3025 (Part 17): 2022
25.	Ground Water	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 2023

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137 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
26.	Ground Water	Calcium (as Ca)	IS 3025 (Part 40): 2024
27.	Ground Water	Chloride	IS 3025 (Part 32): 1988 RA 2019
28.	Ground Water	Colour	IS 3025 (Part 4): 2021
29.	Ground Water	Iron (as Fe)	IS 3025 (Part 53): 2024
30.	Ground Water	Magnesium (as Mg)	IS 3025 (Part 46): 2023
31.	Ground Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988 RA 2019
32.	Ground Water	Odour	IS 3025 (Part 5): 2018
33.	Ground Water	pH value	IS 3025 (Part 11): 2022
34.	Ground Water	Residual Free Chlorine	IS 3025 (Part 26): 2021
35.	Ground Water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24 / Sec 1): 2022
36.	Ground Water	Taste	IS 3025 (Part 7): 2017 RA 2022 & IS 3025 (Part 8): 2023
37.	Ground Water	Total Dissolved Solids	IS 3025 (Part 16): 2023
38.	Ground Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009 RA 2023
39.	Ground Water	Turbidity	IS 3025 (Part 10): 2023

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[www.qai.org.in](http://www.qai.org.in)



138 of 273

# Quality And Accreditation Institute

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
1.	Cement	Calcium Oxide	IS 4032: 1985 (RA 2019)
2.	Cement	Magnesium Oxide	IS 4032: 1985 (RA 2019)
3.	Cement	Sulphur as SO <sub>3</sub>	IS 4032: 1985 (RA 2019)
4.	Cement	Loss on Ignition	IS 4032: 1985 (RA 2019)
5.	Cement	Silica as SiO <sub>2</sub>	IS 4032: 1985 (RA 2019)
6.	Cement	Chloride as Cl	IS 4032: 1985 (RA 2019)
7.	Cement	Iron as Fe <sub>2</sub> O <sub>3</sub>	IS 4032: 1985 (RA 2019)
8.	Cement	Aluminium as Al <sub>2</sub> O <sub>3</sub>	IS 4032: 1985 (RA 2019)
9.	Cement	Insoluble Residue	IS 4032: 1985 (RA 2019)
10.	Cement	Alkali Content	IS 4032-1985, RA 2019 & IS 3812 (P-1)-2013, RA 2022
11.	Concrete Admixture	Dry Material Content	IS 9103: 1999 (RA 2018)
12.	Concrete Admixture	Ash Content	IS 9103: 1999 (RA 2018)
13.	Concrete Admixture	Relative Density	IS 9103: 1999 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



139 of 273

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## Centre for International Accreditation

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
14.	Concrete Admixture	Chloride Content	IS 6925: 1973 (RA 2018), Clause No. 3
15.	Concrete Admixture	pH	IS 9103: 1999 (RA 2018)
16.	Ceramics Tile (Glazed/ Unglazed/ Vitrified)	Resistance to Staining	IS 13630- Part 8 2019
17.	Ceramics Tile (Glazed/ Unglazed/ Vitrified)	Resistance to household chemical	IS 13630- Part 8 2019
18.	Ceramics Tile (Glazed/ Unglazed/ Vitrified)	Resistance to acid/alkali	IS 13630- Part 8 2019
19.	Hardened Concrete	Chloride	BS 1881 (P-124): 2015 / BS 812 (P-117): 1988
20.	Hardened Concrete	Potassium Oxide	BS1881 (P-124): 2015
21.	Hardened Concrete	Chloride	BS 1881 (P-124): 2015 / BS 812 (P-117): 1988
22.	Hardened Concrete	Ratio of Ingredients	ASTM C-1084: 2019 / IS 516(P-11) / IS 1199: 2020
23.	Hardened Concrete	Sodium Oxide	BS 1881 (P-124): 2015
24.	Hardened Concrete	Sulphate	BS 812 (P-118): 1988 / IS 1881 (P-124): 2015

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[www.qai.org.in](http://www.qai.org.in)



140 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
25.	Mortar	Chloride	BS 1881 (P-124): 2015
26.	Mortar	Ratio of Ingredients	IS 516 (P-11) / IS 1199: RA 2018
27.	Mortar	Sulphate	BS 1881 (P-124): 2015
28.	Building Lime	Available lime as CaO (Dry Basis)	IS 1514 1990 (RA 2024)
29.	Building Lime	Calcium and Magnesium oxides (on ignited basis)	IS 6932 (P-1) RA 2019: 1973
30.	Building Lime	Carbon dioxide (on Oven Dry basis)	IS 6932 (P-1) RA 2019: 1973
31.	Building Lime	Free Moisture content	IS 1514 (RA 2024): 1990
32.	Building Lime	Insoluble residue in dilute acid and alkali (on ignited basis)	IS 6932(P-1) RA 2019: 1973
33.	Building Lime	Magnesium oxides (on ignited basis)	IS 6932(P-1) RA 2019: 1973
34.	Building Lime	Silica, Alumina and Ferric oxide (on ignited basis)	IS 6932(P-1) RA 2019: 1973
35.	Building Lime	Unhydrated Magnesium oxide (on ignited basis)	IS 6932(P-1) RA 2019: 1973

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[www.qai.org.in](http://www.qai.org.in)



141 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
36.	Aggregates (Coarse) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder	Alkali Aggregate Reactivity – Dissolved Silica	IS 2386 (P-7): 1963, RA 2021
37.	Aggregates (Coarse) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder	Alkali aggregate Reactivity - Reduction in alkalinity	IS 2386 (P-7): 1963, RA 2021
38.	Aggregates (Coarse) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder	Alkali aggregate Reactivity - Nature of Aggregate	IS 2386 (P-7): 1963, RA 2021
39.	Aggregates (Coarse) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder	Water Soluble Chloride Content as Cl	IS 14959 (P-2): 2001, RA 2021
40.	Aggregates (Coarse) Graded, Single, All in one, Key Stone Metal, Ballast & Boulder	Total Sulphate Content as SO <sub>3</sub>	IS 4032-1985, RA 2019
41.	Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand	Alkali aggregate Reactivity-Reduction in alkalinity	IS 2386 (P-7): 1963, RA 2021

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[www.qai.org.in](http://www.qai.org.in)



142 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
42.	Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand	Alkali aggregate Reactivity-Dissolved Silica	IS 2386 (P-7): 1963, RA 2021
43.	Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand	Alkali aggregate Reactivity - Nature of Aggregate	IS 2386 (P-7): 1963, RA 2021
44.	Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand	Water Soluble Chloride Content as Cl	IS 14959 (P-2): 2001, RA 2021
45.	Aggregates (Fine) Crushed Stone Sand, Natural Sand, Crushed Gravel Sand, Binding & Screening Material, Mixed Sand & Manufactured Sand	Total Sulphate Content as SO <sub>3</sub>	IS 4032-1985, RA 2019

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[www.qai.org.in](http://www.qai.org.in)



143 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
46.	Bentonite	pH	IS 6186: 2024
47.	Fly Ash	Silica	IS 1727: 1967, RA 2018
48.	Fly Ash	Alumina	IS 1727: 1967, RA 2018
49.	Fly Ash	Available Alkalies as Na <sub>2</sub> O	IS 4032: 1985, RA 2019
50.	Fly Ash	Calcium Oxide	IS 1727: 1967, RA 2018
51.	Fly Ash	Iron Oxide	IS 1727: 1967, RA 2018
52.	Fly Ash	Loss on Ignition	IS 1727: 1967, RA 2018
53.	Fly Ash	Magnesium Oxide	IS 1727: 1967, RA 2018
54.	Fly Ash	Moisture	IS 3812 (P-1): 2013, RA 2022
55.	Fly Ash	Total Chlorides	IS 4032: 1985, RA 2019
56.	Fly Ash	Total Sulphur	IS 1727: 1967, RA 2018
57.	Silica Fume / Micro Silica	Loss on Ignition	IS 1727: 1967, RA 2018
58.	Silica Fume / Micro Silica	Moisture	IS 15388: 2003, RA 2022
59.	Silica Fume / Micro Silica	Silica (SiO <sub>2</sub> %/Mass)	IS 1727: 1967, RA 2018

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[www.qai.org.in](http://www.qai.org.in)



144 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
60.	Silica Fume / Micro Silica	Total Alkalies (Na <sub>2</sub> O)	IS 4032: 1985, RA 2019
61.	Gypsum Plaster Board – Plain & Coated/ Laminated	Gypsum (CaSO <sub>4</sub> .H <sub>2</sub> O)	IS: 1288 – 1982, RA 2021
62.	Gypsum Plaster Board – Plain & Coated/ Laminated	Free Water	IS: 1288 – 1982, RA 2021
63.	Gypsum Plaster Board – Plain & Coated/ Laminated	pH	IS: 2720 (P-26) – 1987, RA 2021
64.	Gypsum Plaster Board – Plain & Coated/ Laminated	SiO <sub>2</sub>	IS: 1288 – 1982, RA 2021
65.	Gypsum Plaster Board – Plain & Coated/ Laminated	Chloride content	IS: 8272 – 1984 RA 2021
66.	Plaster of Paris or Gypsum Building Plaster	Calcium Oxide	IS 1288: 1982, RA 2021
67.	Plaster of Paris or Gypsum Building Plaster	Loss On Ignition	IS 2547 (P-1): 1976, RA 2022
68.	Plaster of Paris or Gypsum Building Plaster	Soluble Magnesium salt as MgO	IS 2547 (P-1): 1976, RA 2022
69.	Plaster of Paris or Gypsum Building Plaster	Sulphur Trioxide	IS 2547 (P-1): 1976, RA 2022

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[www.qai.org.in](http://www.qai.org.in)



145 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Corrosion Test		
1.	Metallic Coated Parts (Ferrous & Non-Ferrous)	Salt Spray Test	ASTM G 85 (Annex 1): 2011 / ASTM B 368: 2009 / ASTM B 117: 2019

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[www.qai.org.in](http://www.qai.org.in)



146 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metallic coatings &amp; treatment solutions</b>		
1.	Galvanized Steel Sheet (Plain and Corrugated/G.I. Wire)	Mass of Zinc Coating	IS 6745: 1972, (RA 2021)
2.	Metallic Coating (Ferrous & Non-Ferrous)	Anodic Coating	IS 5523: 1983, RA 2021
3.	Metallic Coating (Ferrous & Non-Ferrous)	Powder Coating	IS 6012: 1992, RA 2021
4.	Metallic Coating (Ferrous & Non-Ferrous)	Uniformity of Zinc Coating	IS 2633: 1986, RA

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[www.qai.org.in](http://www.qai.org.in)



147 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resin</b>		
1.	HDPE/PP Woven Sacks for Packaging 10 kg, 15 kg, 20kg kg and 30 kg Foodgrains	Ash Content	IS 16208 (Annex D): 2015, RA 2020
2.	HDPE/PP Woven Sacks for Packaging 50kg/25 kg Sugar	Ash Content	IS 14968 (Annex D): 2000, RA 2020
3.	HDPE/PP Woven Sacks for Packaging of 50 kg Foodgrains	Ash Content	IS 14887 (Annex D): 2014, RA 2023
4.	Injection Moulded PVC Fittings	Resistance to sulphuric acid	IS 12235 (Part 7): 2004, RA 2019
5.	Injection Moulded PVC Fittings	Sulphated Ash Content	IS 14735: 1999, RA 2019
6.	Injection Moulded PVC Fittings	Titanium Dioxide content	IS 14735: 1999, RA 2019
7.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Effect On water- Other Toxic Substances (Hg, Cd)	IS 7834 (P-1): 1987, RA 2018
8.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Effect on Water- Tin (Sn)	IS 7834 (P-1): 1987, RA 2018

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[www.qai.org.in](http://www.qai.org.in)



148 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Plastic &amp; Resin</b>		
9.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Effect on water-Lead	IS 7834 (P-1): 1987, RA 2018
10.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Opacity test	IS 7834 (P-1): 1987, RA 2018
11.	Injection Moulded PVC Socket Fittings with Solvent Cement Joints	Stress Relief Test	IS 7834 (P-1): 1987, RA 2018
12.	PE Pipe	Toluene Extract in Masterbatch/ Carbon Black	IS:12786: 2024
13.	PE Pipe	Carbon Black Masterbatch – Ash Content	IS:4984: 2016
14.	PE Pipe	PE Compound- Pigment Dispersion	IS 14885: 2022
15.	PE Pipe	PE Compound- Resistant To gas Constituents	IS 14885: 2022
16.	PE Pipe	Susceptibility to Environmental Stress Cracking	IS:12786: 2024
17.	PE Pipe	Thermal Stability to Oxidation	IS:14885: 2022

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[www.qai.org.in](http://www.qai.org.in)



149 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resin		
18.	PE Pipe	Toluene Extract in Masterbatch/ Carbon Black	IS:4984: 2016
19.	PE Pipe	Volatile Matter content	IS:14885: 2022
20.	PE Resin, Carbon Black Master batch	Ash Content %	IS:4984: 2016
21.	Plastic and polymer	Antioxidant	IS: 2530: 1963 RA 2018
22.	Plastic Materials /Pipes / Containers /Sheets / Films	Polymer Identification	SOP/CHE-PI/00- CIPET, Issue No. 00: 2021
23.	PP, PE, HDPE, LDPE, ABS, PC, PVC Compound	Ash Content in Plastic	ASTM D 5630: 1994
24.	Resin, Plastic & polymer, Raw Material, Plastic Pipe & Films	Carbon Black Content %	IS 2530: 1963, RA 2018
25.	Resin, Plastic & polymer, Raw Material, Plastic Pipe & Films	Carbon Black Dispersion	IS 2530: 1963, RA 2018
26.	Resin, Plastic & polymer, Raw Material, Plastic Pipe & Films	Volatile Matter	IS:4984: 2016
27.	Resin, Plastic & polymer, Raw Material, Plastic Pipe & Films	Water Content	IS:4984: 2016

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



150 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resin		
28.	Resin, Plastic & polymer, Raw Material, Plastic Pipe & Films	Thermal Stability (Oxidation Induction Time)	IS:4984: 2016
29.	UPVC Pipe	Effect of Sunlight	IS 12235 (Part-13): 2004, RA 2019
30.	UPVC Pipe	Ash Content %	IS 12235 (Part- 17) : 2004, RA 2019
31.	UPVC Pipe	Effect on Water -Cadmium (Cd)	IS 12235 (Part 4) : 2004, RA 2014
32.	UPVC Pipe	Effect on Water - Lead (Pb)	IS 12235 (Part 4 & 10): 2004, RA 2014
33.	UPVC Pipe	Effect on Water- Mercury (Hg)	IS 12235 (Part 4) : 2004, RA 2014
34.	UPVC Pipe	Effect on water- Tin (Sn)	IS 12235 (Part 4) : 2004, RA 2014
35.	UPVC Pipe	K Value	IS:4669 RA 2018: 1968
36.	UPVC Pipe	Monomer Content (VCM Content)	IS:10151: 2019
37.	UPVC Pipe	Opacity	IS 12235 (Part 3): 2004, RA 2019
38.	UPVC Pipe	Resistance to Di Chloro Methane	IS 12235 (Part 11): 2004, RA 2019
39.	UPVC Pipe	Resistance to Sulphuric Acid	IS 12235 (Part 7): 2004, RA 2019
40.	UPVC Pipe	Sulphated Ash Content	IS 4985: 2021
41.	UPVC Pipe	Titanium di Oxide (TiO <sub>2</sub> )	IS 15328: 2003, RA 2018
42.	UPVC Pipe	Vicat Softening Temperature	IS 15328: 2003, RA 2018

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[www.qai.org.in](http://www.qai.org.in)



151 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic & Resin		
43.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Ash Content	IS: 15225: 2002 RA 2024
44.	Resin, Plastic & polymer, Raw Material, Plastic Pipes, CPVC & UPVC Pipes	Chlorine content	IS: 15778: 2007 RA 2022/ IS: 4669: 1968 RA 2018

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[www.qai.org.in](http://www.qai.org.in)



152 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water	E. coli / 100 ml	IS 15185: 2016 RA: 2021
2.	Drinking Water	Total coliform bacteria / 100 ml	IS 15185: 2016 RA: 2021
3.	Ground Water	Total coliform bacteria	IS 15185: 2016 RA: 2021
4.	Ground Water/ Surface Water	E. coli / 100 ml	IS 15185: 2016 RA: 2021
5.	Waste Water	E. coli / 100 ml	IS 1622:1981 RA: 2019
6.	Waste Water	Total coliform bacteria	IS 1622:1981 RA: 2019

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[www.qai.org.in](http://www.qai.org.in)



153 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
1.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Annealing Test (For copper Conductor)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 1): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.1.2 & 7.1.2.1)
2.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Tensile test (for Aluminium)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 2): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.2.1)
3.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Wrapping test (for Aluminium)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 3): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.2.2)
4.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Persulphate test (for tinned copper conductor cable only)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 4): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.1.1)
5.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Conductor resistance test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 5): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.3)
6.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Test for overall dimensions and thickness of insulation /sheath	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 6) 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



154 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
7.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Tensile strength test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 7) 1984 (RA 2021), table 1&2 of IS 5831: 1984 (RA 2021)
8.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Elongation at breaks test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 7) 1984 (RA 2021), table 1&2 of IS 5831: 1984 (RA 2021)
9.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Loss of mass test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 10) 1984 (RA 2021), table 1&2 of IS 5831: 1984 (RA 2021)
10.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Tensile strength after Ageing in air oven	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 11) 1984 (RA 2016), table 1&2 of IS 5831: 1984 (RA 2021)
11.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Elongation at break after Ageing in air oven	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 11) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
12.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Shrinkage test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 12) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
13.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Heat shock test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 14) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



155 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
14.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Hot deformation test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 15) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
15.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Thermal stability test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 60) 1988 (RA 2020), Table 1&2 of IS 5831: 1984 (RA 2021)
16.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Cold bend test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 20) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
17.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Cold impact test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 21) 1984 (RA 2001), Table 1&2 of IS 5831: 1984 (RA 2021)
18.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Flammability test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 53) 1984 (RA 2011), Table 1&2 of IS 5831: 1984 (RA 2021)
19.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Oxygen index test	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 58) 1984 (RA 2019)
20.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Test for temperature index	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 64):2003 (RA 2022)

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



156 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
21.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Test for halogen acid gas evaluation	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 59) 1988 (RA 2020)
22.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Test for smoke density rating	IS 13360(P-6/Sec-9) (RA 2021): 2001
23.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	High voltage test (water immersion test)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 45) 2003
24.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Insulation resistance (Volume resistivity)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 43) 1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
25.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	High voltage test (At room temperature)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 45) (RA 2021)
26.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Additional ageing test (OU cables only)	Table 1 of IS 694: 2010 (RA 2020), IS 10810 (Part 45) (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



157 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
27.	PVC Insulated & PVC sheathed Cables for working voltage up to and including 1100 volts	Ovality	Cl. 9.1 of IS 694:2010 (RA 2020)
28.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Annealing Test (For copper Conductor)	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 1): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl. 7.1.2 & 7.1.2.1)
29.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Tensile test (for Aluminium)	Cl.15 & Cl.15.1 of IS 1554 (Part-2): 1988 (RA 2020), IS 10810 (Part 2): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl.7.2.1)
30.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Wrapping test (for Aluminium)	Cl.15 & Cl.15.1 of IS 1554 (Part-3): 1984 (RA 2020), IS 10810 (Part 3): 1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl.7.2.2)
31.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Conductor resistance test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 5):1984 (RA 2021), IS 8130: 2013 (RA 2018) (Cl.7.3)

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[www.qai.org.in](http://www.qai.org.in)



158 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
32.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Dimensions of Armoring	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 5):1984 (RA 2021), IS 3975: 1999 (RA 2021)
33.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Tensile strength for Armouring	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 37):1984 (RA 2021), IS 3975
34.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Elongation at break for Armouring	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 37):1984 (RA 2021), IS 3975: 1999 (RA 2015)
35.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Torsion test on galvanized steel round wire	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 38):1984 (RA 2021), IS 3975: 1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



159 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
36.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Winding test on galvanized steel strip	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 39):1984 (RA 2021), IS 3975
37.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Uniformity of Zinc coating on steel Armouring	Cl.15 & Cl.15.1 of IS 1554(Part-1): 1988 (RA 2020), IS 10810 (Part 40):1984 (RA 2021), IS 3975: 1999 (RA 2021
38.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Mass of zinc coating on steel Armouring	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 41):1984 (RA 2021), IS 3975: 1999 (RA 2021
39.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Resistivity test for Armouring	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 42):1984 (RA 2021), IS 3975: 1999 (RA 2021

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[www.qai.org.in](http://www.qai.org.in)



160 of 273

# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
40.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Test for and sheath thickness of insulation	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 6):1984 (RA 2021)
41.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Tensile strength test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 7):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
42.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Elongation at breaks test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 7):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
43.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Loss of mass test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 10):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



161 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
44.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Tensile strength after Ageing in air oven	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 11) & (Part 7), :1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
45.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Elongation at break after Ageing in air oven	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 11):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
46.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Shrinkage test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 12):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
47.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Heat shock test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 14):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



162 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
48.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Hot deformation test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 15):1984 (RA 2021, Table 1&2 of IS 5831: 1984 (RA 2021
49.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Thermal stability test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 60):1988 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021
50.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Cold bend test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 20):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021
51.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Cold impact test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 20):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021

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[www.qai.org.in](http://www.qai.org.in)



163 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
52.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Flammability test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 53):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
53.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Oxygen index test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 58):1998 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021)
54.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Test for temperature index	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part -64): 2003 (RA 2022), Table 1&2 of IS 5831: 1984 (RA 2021)
55.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Test for halogen acid gas evaluation	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 59):1988 (RA 2020), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



164 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
56.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Flame retardance test on bunched cables	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 62):1993 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021)
57.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Flame retardance test on single cable	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 61):1988 (RA 2020), Table 1&2 of IS 5831: 1984 (RA 2021)
58.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Smoke density	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 63):1988 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021)
59.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	High voltage test (water immersion test)	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 45):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
60.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Insulation resistance	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 43):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



165 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
61.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	Insulation Resistance Test (Volume Resistivity)	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 43):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
62.	PVC Insulated (Heavy Duty) Electric cables Part-1 for working voltage up to and including 1100 volts	High voltage test (At room temperature)	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part - 45):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
63.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Conductor: - Annealing Test (for copper)	Cl.18.1(a) 1) of IS 1554 (Part-2)1988, IS 8130:2013 (RA 2018) & IS10810 (Part -1):1984 (RA 2021)
64.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Conductor: - Tensile Strength (For Aluminium Wires)	Cl.18.1(a) 2) of IS 1554 (Part-2)1988 (RA 2020, IS 8130:2013 (RA 2018) & IS10810 (Part -2):1984 (RA 2021)
65.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Conductor: -Wrapping Test (For Aluminium Wires)	Cl.18.1(a) 3) of IS 1554 (Part-2) 1988 (RA 2020) IS 8130:2013 (RA 2018) & IS 10810 (Part -3):1984(RA 2021)
66.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Conductor: - Conductor Resistance Test	Cl.18.1(a) 4) of IS 1554(Part-2)1988 (RA 2020), IS 8130:2013(RA 2018 & IS 10810 (Part -5):1984(RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



166 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
67.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/ Formed Wire: -Dimension for Armoring Material	Cl.16.3 & Cl.18.1 (b) of IS 1554(Part-2)1988, (RA 2020) & IS 10810 (Part -36):1984, (RA 2021) IS 3975:1999 (RA 2021)
68.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/Formed Wire: -Tensile Strength for armoring material	Cl.16.6.6(a) & Cl.18.1 b) of IS 1554 (Part-2)1988, (RA 2020) & IS 10810 (Part -37):1984, (RA 2021) IS 3975:1999 (RA 2021)
69.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/Formed Wires: Armour Coverage Percentage Test	Cl.16.1.2 of IS 1554(Part-2)1988, (RA 2020)
70.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/Formed Wires: - Resistance Test for Armour (For mining Cables	Cl.16.5 of IS 1554 (Part-2):1988, (RA 2020)
71.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/Formed Wires: - Resistivity Test	Cl.16.6.6(g) & Cl. 18.1 b) of IS 1554 (Part-2)1988, (RA 2020) & IS 10810 (Part -42)1984, (RA 2021) IS 3975:1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



167 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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	Cables & Wires		
72.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armouring Wires/Formed Wires: - Uniformity of zinc coating	Cl.16.6(e) & Cl. 18.1 b) of IS 1554 (Part-2) 1988 (RA 2020 & IS 10810 (Part -40), (2021) IS 3975:1999 (RA 2021)
73.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armouring Wires/Formed Wires: - Elongation at break for armoring material	Cl.16.6(b) & Cl. 18.1 b) of IS 1554 (Part-2)1988 & IS10810 (Part -37) 1984, (RA2021) IS 3975:1999
74.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armouring Wires/Formed Wires: -Mass of Zinc Coating	Cl.16.6(f) & Cl. 18.1. b) of 1554(Part-2)1988, (RA 2020) & IS 10810 (Part -41)1984, (RA 2021) IS 3975:1999 (RA 2021
75.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armouring Wires/Formed Wires: -Torsion Test for round wires	Cl.16.6(c) of IS1554 (Part-2):1988 (RA 2020) & IS 10810 (Part-38) 1984, (RA 2021) IS 3975:1999
76.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test on Armoring Wires/Formed Wires: -Winding Test for formed wires	Cl.16.6(d) of IS1554 (Part-2):1988(RA 2020 & IS 10810 (Part -39):1984 (RA 2021, IS 3975:1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



168 of 273

# Quality And Accreditation Institute

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(formerly Centre for Laboratory Accreditation)



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	<b>Cables &amp; Wires</b>		
77.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Test for Thickness of insulation and sheath	Cl. 11, 15, 17 of IS1554 (Part-2)1988 & IS 10810 (Part -6)1984
78.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Elongation at break on Insulation and sheath	Cl.18.1(d)1 of 1554(Part-2)1988 (RA2020), & IS 10810 (Part -7):1984, (RA 2021)
79.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Tensile Strength on Insulation and sheath	Cl.18.1 (d) 1) of 1554(Part-2)1988, (RA 2020) & IS 10810 (Part -7)1984, (2021) IS 5831:1984 (RA 2021)
80.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Ageing in Air Oven on insulation and sheath	Cl.18.1 (d)2) of 1554(Part-2)1988, 2020& IS 10810 (Part -11):1984, (RA 2021) IS 5831:1984
81.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Shrinkage Test on insulation and sheath	Cl.18.1(d) 3) of IS 1554(Part-2):1988 (2020) & IS 10810 (Part -12):1984, (RA 2021 IS 5831:1984 (RA 2021)
82.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Hot Deformation Test on insulation and sheath	Cl.18.1(d) 4) of IS 1554 (Part-2):1988 (RA 2020) & IS 10810 (Part -15)1984, (RA 2021) IS 5831:1984 (RA 2021)
83.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Loss of Mass Test	Cl.18.1(d)5) of IS 1554(Part-2):1988 (RA 2020) & IS10810 (Part -10):1984, (RA 2021 IS )5831:1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



169 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
84.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Heat Shock Test on insulation and sheath	Cl.18.1(d) 6) of IS 1554(Part-2):1988 (RA 2020) & IS10810 (Part -14):1984, (RA 2021) IS 5831:1984 (RA 2021)
85.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Thermal Stability	Cl.18.1(d)7) of IS 1554(Part-2):1988 (RA 2020) & IS 10810 (Part -60):1988 (RA 2020), IS 5831:1984 (RA 2021)
86.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Physical Test on Insulation and Sheath: - Water Absorption Test for insulation	Cl.18.1(d) of IS 1554 (Part-2):1988(RA 2020) & IS 10810 (Part -33) (RA 2021):1984
87.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Insulation Resistance Test	Cl.18.1(e) of 1554(Part-2)1988, (RA 2020 & IS 10810 (Part -43):1984, (RA 2021) IS 5831:1984 (RA 2021)
88.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	Flammability Test	Cl.18.1(n) of 1554(Part-2) 1988, (RA 2020) & IS 10810 (Part - 53):1984 (RA 2021)
89.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: - Flame Retardant Test on Bunched Cable	Cl.19.11 of 1554 (Part-2)1988, (RA 2020) & IS 10810 (Part - 62):1993 (RA 2019)
90.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: - Flame Retardant Test on Single Cable	Cl. 19.10 of 1554(Part-2)1988, (RA 2020) & IS 10810 (Part - 61):1988 (RA 2020)

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[www.qai.org.in](http://www.qai.org.in)



170 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
91.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: - Oxygen Index Test	Cl. 19.9 of 1554(Part-2)1988, (RA 2020) & IS 10810 (Part - 58):1998 (RA2019)
92.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: - Smoke density Test	Cl. 19.12 of 1554(Part-2)1988, (RA 2020) & IS 10810 (Part - 63):1993 (RA 2019)
93.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: -Test for Halogen Acid Gas Evolution	Cl. 19.13 of 1554(Part-2)1988, (RA 2020 & IS 10810 (Part - 59):1988 (RA 2020)
94.	PVC Insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV to 11kV	FR - LSH Test on Cable: - Temperature Index Test	Cl.19.14 of 1554 (Part-2)1988, (RA 2020) & IS 10810 (Part - 64):20039 (RA 2022)
95.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Ageing in Air Oven	Cl. 11.1 & Cl No. 6.1 of IS 17293 :2020, IS 10810 (Part-11):1984(RA 2021)
96.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Compatibility Test (Tensile Variation and Elongation Variation after Ageing)	Cl. 11.1 & Cl. 6.1 of IS 17293:2020, IS 10810 (Part-11):1984(RA 2021)
97.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Halogen Acid Gas evolution (Assessment of Halogens)	Cl.No.11.1 & ANNEX J of IS 17293:2020

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[www.qai.org.in](http://www.qai.org.in)



171 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
98.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Hot Set test - Elongation under Load	Cl. 5.1 & Cl. No. 6.1 of IS 17293 :2020, IS 10810 (Part-30):1984 (RA 2021)
99.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Insulation Resistance	Cl 11.1 of IS 17293: 2020, IS 10810 (Part-43):1984 (RA 2021)
100.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Long term resistance of insulation to DC	Cl. 11.1 & Cl. 11.2.4 of IS 17293:2020,
101.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Maximum Diameter of Wire in Conductor	CL.No.11.1 of IS:17293: 2020, cL.No.6.4.3 and Table 3 of IS 8130: 2013 (RA 2018)
102.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Overall Diameter and Ovality	Cl.No.13.3.3 of IS 17293:2020
103.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Ozone Resistance of Sheath	Cl. 11.1 & Annex G of IS 17293:2020
104.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Persulphate Test (Checking of continuity of Tin)	CL.NO.7.1 IS 17293 :2020, IS 8130: (2013, RA 2018) IS 10810 (Part-4): 1984 (2018)

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[www.qai.org.in](http://www.qai.org.in)



172 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
105.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Sheath Resistance against acid and Alkaline solution - Tensile Strength Variation and Elongation Variation after Ageing	Annex-I, Cl. 5.1 & Cl. 6.1 of IS 17293:2020
106.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Shrinkage Test	Cl 11.1 of IS 17293 :2020, IS 10810 (Part-12):1984 (RA 2021)
107.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Surface Resistance of Sheath	Cl. 11.1 & Cl. 11.2.5.2 of IS 17293:2020
108.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Tensile Strength of Insulation and Sheath	Cl 5.1 & Cl. 6.1 of IS 17293 :2020, IS 10810 (Part-7):1984 (RA 2021)
109.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Test for vertical flame propagation on complete cable / Test for Flame Retardance on	Cl. 11.1 of IS 17293 :2020, IS 10810 (Part-53):1984 (RA 2021)
110.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Thickness of Insulation and Outer Sheath	Cl. 11.1 of IS 17293 :2020, IS 10810 (Part-6):1984 (RA 2021)

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



173 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
111.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Weathering / UV Resistance of Sheath	Cl.11.1 & ANNEX E of IS 17293:2020
112.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Ph and Conductivity Test (Assessment of Halogens)	Cl.No.11.1 & ANNEX J of of IS 17293:2020
113.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Conductor Resistance Test	CL.11.1 of IS 17293 :2020, IS 8130 :2013, IS 10810 (PART-5):1984 (RA 2021)
114.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Elongation at break on Insulation and Sheath	Cl. No. 5.1 & Cl. No. 6.1 of IS 17293 :2020, IS 10810 (Part-7):1984 (RA 2021)
115.	Electric Cables for Photovoltaic Systems for Rated Voltage 1 500 V DC	Elongation Variation	Cl. 5.1 & Cl. No. 6.1 of IS 17293:2020
116.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including1100 volts	Annealing test for copper	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 1):1984 (RA 2021), Cl. 7.1.2 & Cl.7.1.2.1 of IS 8130: 2013 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



174 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
117.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including1100 volts	Ageing in air oven After ageing Tensile strength	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 11):1984 (RA 2021), IS 5831: 1984 (RA 2021)
118.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including1100 volts	Ageing in air oven After ageing Elongation At Break	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 11):1984 (RA 2021), IS 5831: 1984 (RA 2021)
119.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Tensile strength test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 7):1984 (RA 2011), IS 5831: 1984
120.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Elongation at breaks test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 7):1984 (RA 2021), IS 5831: 1984 (RA 2021)
121.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Tensile test (for Aluminium)	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 2):1984 (RA 2021), Cl. 7.2.1 of 8130: 2013 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



175 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
122.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Wrapping test (for Aluminium)	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 3):1984 (RA 2021), Cl. 7.2.2 of 8130: 2013(RA 2018)
123.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Conductor resistance test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 5):1984 (RA 2016), Cl. 7.3 of 8130: 2013 (RA 2018)
124.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Dimensions of Armoring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 36):1984 (RA 2021), IS 3975:1999
125.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Tensile strength for Armouring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 37):1984 (RA 2021), IS 3975:1999 (RA 2021)
126.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Elongation at break for Armouring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 37):1984 (RA 2021), IS 3975:1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



176 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
127.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Torsion test on galvanized steel round wire	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 38):1984 (RA 2021), IS 3975:1999 (RA 2021)
128.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Winding test on galvanized steel strip	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 39):1984 (RA 2021), IS 3975:1999 (RA 2021)
129.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Uniformity of Zinc coating on steel Armouring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 40):1984 (RA 2016), IS 3975:1999 (RA 2021)
130.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Mass of zinc coating on steel Armouring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 41):1984 (RA 2001), IS 3975:1999 (RA 2021)
131.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Resistivity test for Armouring	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 42):1984 (RA 2001), IS 3975:1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



177 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
132.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Test for and sheath thickness of insulation	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part – 6):1984 (RA 2021), IS 3975:1999 (RA 2021)
133.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Cold Bend Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part 20):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
134.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Cold Impact Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2021), IS 10810 (Part 20):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
135.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Flammability Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 53):1988 (RA 2011), Table 1&2 of IS 5831: 1984 (RA 2021)
136.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Heat Shock Test	Cl.15 & Cl.15.1 of IS 1554 (Part-1): 1988 (RA 2020), IS 10810 (Part 14):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



178 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
137.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Hot Deformation Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part 15):1984 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021
138.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Hot Set Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (P-30): 1988, RA 2021,
139.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Insulation Resistance Test (Volume Resistivity)	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (P-43): 1988, RA 2021,
140.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Loss of mass in air oven	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (P-10): 1984, RA 2021, IS 5831, Cl.4.1: 1984, RA 2021
141.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Shrinkage Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (P-12):1984, RA 2021, IS 5831 Cl.4.1: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



179 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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	<b>Cables &amp; Wires</b>		
142.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Thermal Stability Test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (P-60): 1984
143.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Test for Thickness of Insulation& Sheath	IS 7098 (Part 1), Cl.9.2, 12.3 & 14.3 Table 3, 5 and 8: 1988, RA 2020
144.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Water Absorption Test (Gravimetric)	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part-33): 1984, RA 2021
145.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Test for halogen acid gas evaluation	Cl.15 & Cl.15.1 of IS 7089 (Part-1): 1988 (RA 2020), IS 10810 (Part - 59):1988 (RA 2020), Table 1&2 of IS 5831: 1984 (RA 2021
146.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Flame retardance test on bunched cables	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 62):1993 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



180 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
147.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Flame retardance test on single cable	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 61):1988 (RA 2020), Table 1&2 of IS 5831: 1984 (RA 2021)
148.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Smoke density	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 63):1988 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021)
149.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Flammability test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 53):1988 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)
150.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Oxygen index test	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part - 58):1988 (RA 2019), Table 1&2 of IS 5831: 1984 (RA 2021)
151.	Cross Linked PolyethyleneInsulated PVC Sheathed Cables for Working voltage including 1100 volts	Test for temperature index	Cl.15 & Cl.15.1 of IS 7098 (Part-1): 1988 (RA 2020), IS 10810 (Part -64): 2003 (RA 2021), Table 1&2 of IS 5831: 1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



181 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
152.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Flammability Test	Cl. 20.8 of IS 7098 (Part-2):2011 & IS10810 (Part -53):1984 (RA 2021)
153.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Oxygen Index Test	Cl.20.10 of IS 7098(Part-2):2011 & IS 10810 (Part -58):1998 (RA 2019)
154.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Flame Retardant Test on Single Cable	Cl.20.11 of IS 7098(Part-2):2011 & IS 10810 (Part -61):1988 (RA 2020)
155.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Flame Retardant Test on Bunched Cable	Cl.20.12 of IS 7098 (Part-2):2011 & IS 10810 (Part -62):1993(RA 2019)
156.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Test for Halogen Acid Gas evolution	Cl.20.13 of IS 7098(Part-2):2011 & IS 10810 (Part -59):1988 (RA 2020)
157.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Smoke density Test	Cl.20.14 of IS 7098 (Part-2):2011
158.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	FR- LSH Test on Cables: - Temperature Index Test	Cl.20.15 of IS 7098 (Part-2):2011 & IS 10810(Part -64):2003 (RA 2022)

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



182 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
159.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Conductor: - Annealing Test	Cl.19.1 (i) a) of IS 7098 (Part-2):2011 IS 8130:2013 (RA 2018 & IS 10810 (Part 1):1984 (RA 2021)
160.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Conductor: - Tensile Test [for Aluminum Wires]	Cl.19.1(i) b) of IS 7098 (Part-2):2011 IS 8130:2013(RA2018) & IS 10810 (Part 2):1984 (RA 2021)
161.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Conductor: - Wrapping Test [for Aluminum Wires]	Cl.19.1(i) c) of IS 7098 (Part-2):2011 IS 8130:2013 (RA 2018) & IS 10810 (Part 3):1984 (RA 2021)
162.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Conductor: - Conductor Resistance Test	Cl.19.1(i) d) of IS 7098 (Part-2):2011 IS 8130 :2013 (RA 2018) & IS 10810 (Part 5):1984 (RA 2021)
163.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Armor Coverage Percentage Test	Cl.17.2 & Annex. F of IS 7098 (Part-2):2011
164.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Dimensions	Cl.17.3 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 36):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



183 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
165.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Armouring Resistance Test (For Mining Cables)	Cl.17.5 of IS 7098 (Part-2):2011
166.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Tensile strength at Break Test	Cl.17.6.1 of IS 7098 (Part-2):2011 IS 3975:1999 & IS 10810 (Part 37) (RA 2021) & IS 3975:1999 (RA 2021)
167.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Elongation at Break Test	Cl.17.6.2 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 37):1984 (RA 2021)
168.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Mass of Zinc Coating	Cl.17.6.6 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 41):1984 (RA 2021)
169.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Uniformity of Zinc Coating Test	Cl.17.6.5 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 40):1984 (RA 2021)
170.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Resistivity & Conductance Test	Cl.17.6.7 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 42):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



184 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
171.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Torsion Test [Round Wire only]	Cl.17.6.3 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 38):1984 (RA 2021)
172.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Test On Armoring Wires / Formed Wires: - Winding Test [Formed Wire only]	Cl.17.6.4 of IS 7098 (Part-2):2011 IS 3975:1999 (RA 2021) & IS 10810 (Part 39):1984 (RA 2021)
173.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Optional Test: - Cold Impact Test for Outer Sheath	Cl.19.4 of IS 7098 (Part-2):2011 IS 5831:1984 (RA 2021) & IS 10810-21:1984 (RA 2021)
174.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation & Sheath: - Ageing in Air Oven	Cl.19.1(iii) b) & (iv) b) of IS 7098 (Part-2):2011 & IS 10810 (Part 11):1984 (RA 2021)
175.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation & Sheath: - Elongation at Break Test on insulation and sheath (Before Ageing)	Cl.19.1(iii) a) & (iv) a) of IS 7098 (Part-2):2011 & IS 10810 (Part 7):1984 (RA 2021)
176.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation & Sheath: - Tensile Strength Test on insulation and sheath (Before Ageing)	Cl.19.1(iii) a) & (iv) a) of IS 7098 (Part-2):2011 & IS 10810 (Part 7):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



185 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid from: 11 September 2024

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
177.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation: - Hot Set test	Cl.19.1(iii) d) of IS7098 (Part-2):2011 & IS 10810 (Part 30):1984 (RA 2021)
178.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation: - Water Absorption [Gravimetric]	Cl.19.1(iii) f) of IS 7098(Part-2):2011 & IS 10810 (Part 33):1984 (RA 2021)
179.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Insulation & Sheath: - Test for eccentricity and Thickness of Insulation & Outer Sheath /Overall dimension	Cl.12.2, 16.3, 18.3 of IS 7098 (Part-2:2011) & IS 10810 (Part 6):1984 (RA 2021)
180.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Sheath: - Heat Shock Test	Cl.19.1(vi) d) of IS7098(Part-2):2011 IS 5831:1984 (RA 2021) & IS 10810 (Part 12):1984 (RA 2021)
181.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Sheath: - Hot Deformation Test	Cl.19.1(vi) f) of IS 7098 (Part-2):2011 IS 5831:1984 (RA 2021) & IS 10810 (Part 15):1984 (RA 2021)
182.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on sheath: - Loss of Mass Test in Air Oven	Cl.19.1(vi) e) of IS 7098(Part-2):2011 IS 5831:1984 & IS 10810 (Part 10):1984

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[www.qai.org.in](http://www.qai.org.in)



186 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
183.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables	Physical Test on Sheath: - Thermal Stability Test	Cl.19.1(vi) g) of IS 7098(Part-2)2011 IS 5831:1984 & IS 10810 (Part 60):1988
184.	Cables For Motor Vehicle	Ageing In Air Oven	IS:2465 (RA-2021): 1984, IS:10810(Pt-11) (RA- 2021): 1984, IS:6380 (RA-2021): 1984, IS:5831 (RA-2021): 1984
185.	Cables For Motor Vehicle	Ageing In Oxygen Bomb	IS 2465 (RA-2021): 1984, IS 10810(Pt-16) (RA- 2017): 1984, IS 6380 (RA-2021): 1984,
186.	Cables For Motor Vehicle	Annealing Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-1) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
187.	Cables For Motor Vehicle	Capacitance Test	IS 2465 (RA-2021): 1984
188.	Cables For Motor Vehicle	Conductor Resistance Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-5) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
189.	Cables For Motor Vehicle	Effect Of Heat On Flexibility	IS:2465 (RA-2021): 1984

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[www.qai.org.in](http://www.qai.org.in)



187 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
190.	Cables For Motor Vehicle	Effect Of Lubricating Oil, Break Fluid, Diesel And Petrol (For General Wiring Cable	IS:2465 (RA-2021): 1984
191.	Cables For Motor Vehicle	Effect Of Oil	IS:2465 (RA-2021): 1984
192.	Cables For Motor Vehicle	Effect On Cooling On Flexibility	IS 2465 (RA-2021): 1984
193.	Cables For Motor Vehicle	Elongation At Break	IS 2465 (RA-2021): 1984, IS 10810(Pt-7) (RA- 2021): 1984, IS 6380 (RA-2021): 1984, IS 5831 (RA-2021): 1984
194.	Cables For Motor Vehicle	Flammability Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-53) (RA- 2021): 1984,
195.	Cables For Motor Vehicle	Heat Shock Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-14) (RA- 2021): 1984, IS 5831 (RA-2021): 1984,
196.	Cables For Motor Vehicle	High Voltage Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-45) (RA- 2021): 1984
197.	Cables For Motor Vehicle	Hot Deformation Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-15) (RA- 2021): 1984, IS 5831 (RA-2021) : 1984

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



188 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
198.	Cables For Motor Vehicle	Laying Up Of Cores	IS:2465 (RA-2021): 1984
199.	Cables For Motor Vehicle	Loss Of Mass Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-10) (RA- 2021): 1984, IS 5831 (RA-2021): 1984
200.	Cables For Motor Vehicle	Ozone Resistance Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-13) (RA- 2021), IS 6380 (RA-2021): 1984
201.	Cables For Motor Vehicle	Persulphate Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-4) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
202.	Cables For Motor Vehicle	Shrinkage Test	IS 2465 (RA-2021): 1984, IS 10810(Pt-12) (RA- 2021): 1984, IS 5831 (RA-2021): 1984
203.	Cables For Motor Vehicle	Tensile Strength	IS 5831 (RA-2021): 1984, IS 6380 (RA-2021): 1984, IS 10810(Pt-7) (RA- 2021): 1984
204.	Cables For Motor Vehicle	Test for thickness of insulation and sheath and overall diameter	IS 2465 (RA-2021): 1984, IS 10810(Pt-6) (RA- 2021): 1984

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



189 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
205.	Elastomer Insulated Cables	Ageing In Air Bomb	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-56) (RA- 2017): 1987, IS 6380 (RA-2021): 1984
206.	Elastomer Insulated Cables	Ageing In Air Oven	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-11) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
207.	Elastomer Insulated Cables	Ageing In Air Oven	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-11) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
208.	Elastomer Insulated Cables	Ageing In Oxygen Bomb	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-16) (RA- 2017): 1987, IS 6380 (RA-2021): 1984
209.	Elastomer Insulated Cables	Annealing Test	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-1) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
210.	Elastomer Insulated Cables	Conductor Resistance Test	IS 9968(Pt-1) (RA- 2020): 1988 IS 10810(Pt-5) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
211.	Elastomer Insulated Cables	Elongation At Break	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-7) (RA- 2021): 1984,

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[www.qai.org.in](http://www.qai.org.in)



190 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
			IS 6380 (RA-2021): 1984
212.	Elastomer Insulated Cables	Flammability Test	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-53) (RA- 2021): 1984
213.	Elastomer Insulated Cables	High Voltage Test	IS 10810(Pt-45) (RA- 2021): 1984, IS 9968(Pt-1) (RA- 2020): 1988
214.	Elastomer Insulated Cables	Hot Set Test	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-30) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
215.	Elastomer Insulated Cables	Insulation Resistance Test	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-43) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
216.	Elastomer Insulated Cables	Laying Up Of Cores	IS 9968 (PT-1) (RA- 2020): 1988
217.	Elastomer Insulated Cables	Oil Resistance Test	IS 9968(Pt-1) (RA- 2020): 1988, IS 10810(Pt-31) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
218.	Elastomer Insulated Cables	Ozone Resistance Test	IS 9968(Pt-1) (RA- 2020): 1988 IS 6380 (RA-2021): 1984
219.	Elastomer Insulated Cables	Persulphate Test	IS 9968(Pt-1) (RA- 2020): 1988

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



191 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
			IS 10810(Pt-4) (RA- 2021): 1984 IS 8130 (RA-2018): 2013
220.	Elastomer Insulated Cables	Tear Resistance Test	IS 9968(PT-1) (RA- 2020): 1988 IS 10810(Pt-17) (RA- 2021): 1986 IS 6380 (RA-2021): 1984
221.	Elastomer Insulated Cables	Tensile Strength	IS 9968(PT-1) (RA- 2020) : 1988 IS 10810(Pt-7) (RA- 2021) : 1984, IS 6380 (RA-2021): 1984
222.	Elastomer Insulated Cables	Tensile Test (For Aluminium)	IS 9968(PT-1) (RA- 2020): 1988 IS 10810(Pt-2) (RA- 2021): 1984 IS 8130 (RA-2018): 2013
223.	ELASTOMER INSULATED CABLES	Test For Thickness Of Insulation And Sheath And Overall Diameter	IS 9968 (PT-1) (RA- 2020): 1988 IS 10810(Pt-6) (RA- 2021): 1984
224.	Elastomer Insulated Cables	Water Absorption Test	IS 9968(PT-1) (RA- 2020): 1984 IS 10810(Pt-28) (RA- 2021): 1984
225.	Elastomer Insulated Cables	Wrapping Test (For Aluminium)	IS 9968(PT-1) (RA- 2020): 1988 IS 10810(Pt-3) (RA- 2021): 1984 IS 8130 (RA-2018): 2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



192 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
226.	Arial Bunched conductor cable	Breaking Load Test	IS 10810 (P-2): 1984, RA 2016, IS 8130, Cl.6.5: 2013, RA 2018
227.	Arial Bunched conductor cable	Conductor Resistance	IS 10810 (P-5): 1984, RA 2016 IS 8130, Cl.7.3: 2013, RA 2018
228.	Arial Bunched conductor cable	Elongation Test	IS 10810 (P-7): 1984, RA 2016, IS 8130, Cl.11.3: 2013, RA 2018
229.	Arial Bunched conductor cable	Tensile Strength & Elongation at Break	IS 14255: 1995, RA 2020 IS 10810 (P-7): 1984, RA 2021
230.	Arial Bunched conductor cable	Tensile Test for Conductor	IS 10810 (P-2): 1984, RA 2021 IS 8130, Cl.7.1: 2013, RA 2018
231.	Arial Bunched conductor cable	Wrapping Test	IS 8130, Cl.7.2: 2013, RA 2018 IS 10810 (P-3): 1984, RA 2021
232.	Arial Bunched conductor cable	Ageing in air oven After ageing Tensile strength & Elongation at break	IS 10810 (P-11): 1984, RA 2021 IS 14255: 1995, RA 2020
233.	Arial Bunched conductor cable	Bending Test on Complete Cable	IS 14255 Cl.11.4: 1995

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[www.qai.org.in](http://www.qai.org.in)



193 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
234.	Arial Bunched conductor cable	Carbon Black Content	IS 10810 (P-32): 1984, RA 2021, IS 14255: 1995, RA 2020
235.	Arial Bunched conductor cable	Carbon Black Dispersion	IS 10810 (P-32): 1984, RA 2021, IS 14255: 1995, RA 2020
236.	Arial Bunched conductor cable	Environment Stress Cracking	IS 14255: 1995, RA 2020, IS 10810 (P-29) : 1984, RA 2021
237.	Arial Bunched conductor cable	High Voltage Test	IS 14255: 1995, RA 2020, IS 10810 (P-45): 1984, RA 2021
238.	Arial Bunched conductor cable	Hot Set Test	IS 10810 (P-30): 1984, RA 2021, IS 14255: 1984, RA 2020
239.	Arial Bunched conductor cable	Insulation Resistance Test (Volume Resistivity)	IS 14255: 1995, RA 2020, IS 10810 (P-43): 1984, RA 2021
240.	Arial Bunched conductor cable	Shrinkage Test	IS 10810 (P-12): 1984, RA 2021, IS 14255: 1995, RA2020
241.	Arial Bunched conductor cable	Test for PE Insulation Melt Flow Index	IS 14255: 1995, RA 2020

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



194 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
242.	Arial Bunched conductor cable	Test for Thickness of Insulation	IS 14255: 1995, RA2020, IS 10810 (P-6): 1984, RA 2021
243.	Arial Bunched conductor cable	Vicat Softening Point	IS 10810 (P-22) : 1984, RA 2021, IS 14255: 1995, RA 2020
244.	Arial Bunched conductor cable	Water Absorption Test (Gravimetric)	IS 14255: 1995, RA 2020, IS 10810 (P-33): 1984, RA 2021
245.	HHFR cable Working voltage up to and including 1100 volts	Persulphate test	Table 2 of IS 17048:2018, IS 10810 (P-4), IS 8130 (RA-2018): 2013
246.	HHFR cable Working voltage up to and including 1100 volts	Ageing in air oven insulation and sheath	IS 17048:2018, IS 10810(Pt-11) (RA- 2021): 1984
247.	HHFR cable Working voltage up to and including 1100 volts	Ageing in air oven insulation and sheath	IS 17048:2018, IS 10810 (Pt-11) (RA- 2021): 1984
248.	HHFR cable Working voltage up to and including 1100 volts	Annealing Test	IS 17048:2018, IS 10810(Pt-1) (RA- 2021): 1984, IS 8130 (RA-2018): 2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



195 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
249.	HHFR cable Working voltage up to and including 1100 volts	Assessment Of Halogen Insulation And Sheath	IS 17048:2018, IS 10810(P-59):1988 (RA 2021)
250.	HHFR cable Working voltage up to and including 1100 volts	COLD BEND TEST	IS: 17048:2018, IS:10810(Pt -20) (RA -2021): 1984
251.	HHFR cable Working voltage up to and including 1100 volts	Cold Impact Test	IS 17048:2018, IS 10810(Pt-21) (RA-2021): 1984
252.	HHFR cable Working voltage up to and including 1100 volts	Conductor Resistance Test	IS 17048:2018, IS 10810(Pt-5) (RA-2021): 1984, IS 8130 (RA-2018): 2013
253.	HHFR cable Working voltage up to and including 1100 volts	Flame Retardant Test On Single Cable	IS 17048:2018, IS 10810(Pt-61) (RA-2021): 1984
254.	HHFR cable Working voltage up to and including 1100 volts	Flammability Test	IS 17048:2018, IS 10810(Pt -53) (RA -2021): 1984
255.	HHFR cable Working voltage up to and including 1100 volts	High Voltage Test	IS 17048:2018, IS 10810(Pt-45) (RA-2021): 1984

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[www.qai.org.in](http://www.qai.org.in)



196 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
256.	HHFR cable Working voltage up to and including 1100 volts	Hot Deformation Test Insulation And Sheath	IS 17048:2018, IS 10810(Pt-15) (RA-2021): 1984
257.	HHFR cable Working voltage up to and including 1100 volts	Hot Set Test Insulation And Sheath	IS 17048:2018, IS 10810(Pt-30) (RA-2021): 1984
258.	HHFR cable Working voltage up to and including 1100 volts	Insulation resistance test	IS 17048:2018, IS 10810(Pt-43) (RA- 2021): 1984
259.	HHFR cable Working voltage up to and including 1100 volts	Oxygen index test insulation and sheath	IS 17048: 2018, IS 10810 (Pt-58) (RA- 2019): 1998
260.	HHFR cable Working voltage up to and including 1100 volts	Ozone resistance test	IS 17048:2018, IS 10810(Pt-13) (RA- 2021): 1984
261.	HHFR cable Working voltage up to and including 1100 volts	Temperature index test insulation and sheath	IS 17048:2018, IS 10810 (Pt-64) (RA- 2022): 2003
262.	HHFR cable Working voltage up to and including 1100 volts	Tensile Strength	IS 17048:2018, IS 10810 (Pt-7) (RA- 2021): 1984
263.	HHFR cable Working voltage up to and including 1100 volts	Tensile Strength After Ageing	IS 10810 (Pt-11) (RA- 2021): 1984, IS 17048:2018

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



197 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
264.	HHFR cable Working voltage up to and including 1100 volts	Elongation At Break	IS: 17048:2018, IS:10810(Pt-7) (RA-2021): 1984
265.	HHFR cable Working voltage up to and including 1100 volts	Elongation At Break After Ageing	IS 10810(Pt-11) (RA- 2021): 1984, IS 17048:2018
266.	HHFR cable Working voltage up to and including 1100 volts	Tensile Test (For Aluminium)	IS 17048:2018, IS 10810 (Pt-2) (RA- 2021): 1984, IS 8130 (RA-2018): 2013
267.	HHFR cable Working voltage up to and including 1100 volts	Test For Overall Dimension And Thickness Of Insulation And Sheath	IS 17048:2018, IS 10810 (Pt-6) (RA- 2021): 1984
268.	HHFR cable Working voltage up to and including 1100 volts	Water Immersion Test	IS 17048:2018,
269.	HHFR cable Working voltage up to and including 1100 volts	Water Immersion Test	IS 17048:2018
270.	HHFR cable Working voltage up to and including 1100 volts	Wrapping Test (For Aluminium)	IS 17048:2018, IS 8130 (RA-2018): 2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



198 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
271.	HHFR cable Working voltage up to and including 1100 volts	Smoke Density test	IS 17048:2018, IS 10810(P-63): 1993 (RA 2019)
272.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Persulphate test	IS 17505(P1):2021, IS 10810 (P-4):1984 IS 8130 (RA-2018): 2013
273.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Annealing test for copper	IS 17505 (P1):2021, IS 8130 (RA-2018): 2013, IS 10810 (P-1): 1984
274.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Conductor Resistance	IS 17505 (P1):2021, IS 8130 (RA-2021): 2013, IS 10810 (P-5): 1984
275.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Dimension Test for Armour	IS 17505 (P1):2021 IS 10810 (Part-36): 1984 (RA 2021), IS 3975:1999
276.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Elongation test for Armour	IS 17505(P1):2021 IS 10810(Part-37): 1984 (RA 2021), IS 3975:1999 (RA 2021)
277.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Tensile strength for Armour	IS 17505 (P1):2021 IS 10810 (Part-37): 1984 (RA 2021), IS 3975:1999 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



199 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
278.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Torsion test for Armour	IS:17505(P1):2021 IS:10810(Part-38): 1984 (RA 2021), IS 3975:1999 (RA 2021)
279.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Uniformity of zinc coating test	IS 17505(P1):2021 IS 10810(Part-40): 1984 (RA 2021), IS 3975:1999 (RA 2021)
280.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Mass of Zinc coating	IS 17505 (P1):2021 IS 10810 (Part-41): 1984 (RA 2021), IS 3975:1999 (RA 2021)
281.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Winding test for Armouring	IS 17505 (P1):2021 IS 10810 (Part-39): 1984 (RA 2021), IS 3975:1999 (RA 2021)
282.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Abrasion resistance test	IS:17505(Part-1): 2021
283.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Ageing in air oven on insulation and sheath	IS 17505 (Part-1): 2021, IS:10810 (Part-11):1984 RA:2021: 1984

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



200 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
284.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Assessment Of Halogen Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (59):1988 (RA 2020)
285.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Cold Bend Test	IS 17505 (Part-1): 2021, IS 10810 (Pt-20) (RA- 2021): 1984
286.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Cold Impact Test	IS 17505 (Part-1): 2021, IS 10810 (Pt-21) (RA- 2021): 1984
287.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Effect Of Water On Sheath	IS 17505 (Part-1): 2021
288.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Elongation At Break Before ageing Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Part-7):1984 RA:2021: 1984
289.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Flame Retardance Tests For Bunched Cables	IS 17505 (Part-1): 2021, IS 10810 (Pt-62) (RA- 2019): 1993

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[www.qai.org.in](http://www.qai.org.in)



201 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
290.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Flame retardant test on single cable	IS 17505 (Part-1): 2021, IS 10810 (Pt-61) (RA- 2021): 1993
291.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Flammability Test	IS 17505 (Part-1): 2021, IS 10810 (Pt-53) (RA- 2019): 1993
292.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Heat Shock Test On Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Pt-14) (RA- 2021): 1984
293.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	High Voltage Test	IS 17505 (Part-1): 2021, IS 10810 (Pt-45) (RA- 2021): 1984
294.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Hot Set Test On Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Pt-30) (RA- 2021): 1984
295.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Insulation Resistance Test (Volume Resistivity Test)	IS 17505 (Part-1): 2021, IS 10810 (Pt-43) (RA- 2021): 1984

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[www.qai.org.in](http://www.qai.org.in)



202 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
296.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Oxygen Index Test On Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Pt-58) (RA- 2019): 1998,
297.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Ozone Resistance Test	IS 17505 (Part-1): 2021, IS 10810 (Pt-13) (RA- 2021): 1984
298.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Resistivity of steel wire	IS 17505 (Part-1): 2021, IS 10810 (Pt-42) (RA- 2021): 1984
299.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Shrinkage Test On Insulation And Sheath	IS 17505(Part-1): 2021, IS 10810 (Pt-12) (RA- 2021): 1984
300.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Smoke Density Test	IS 13360 (Part-6/Sec- 9): 2001, IS 17505(Part-1): 2021, IS 10810(P-63):1993
301.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Temperature Index Test Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Pt-64) (RA- 2018): 2003

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[www.qai.org.in](http://www.qai.org.in)



203 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
302.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Tensile Strength Test Before ageing Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Part-7) RA:2021: 1984
303.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Tests For The Thickness Of Insulation And Sheath	IS 17505 (Part-1): 2021, IS 10810 (Part-6) RA:2021: 1984
304.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Water Absorption Test (Gravimetric)	IS 17505 (Part-1): 2021, IS 10810 (Pt-33) (RA- 2021): 1984
305.	Fire survival cable up to and including 1100-volt AC and 1500-volt DC	Circuit integrity test under fire	Annexure E of IS 17505 (Part-1): 2021,
306.	Welding Cables	Ageing In Air Bomb	IS 9857 (RA-2020): 1990 IS 6380 (RA-2021): 1984
307.	Welding Cables	Ageing In Air Oven	IS 9857 (RA-2020): 1990 IS 10810(Pt-11) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
308.	Welding Cables	Ageing In Air Oven	IS 9857 (RA-2020): 1990 IS 10810(Pt-11) (RA- 2021): 1984 IS 6380 (RA-2021): 1984

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



204 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
309.	Welding Cables	Annealing Test For Copper	IS 9857: 1990 (RA 2020), IS 10810 (P-1), RA 2021: 1984, IS 8130, RA 2018: 2013
310.	Welding Cables	Conductor Resistance Test	IS 9857, RA 2020: 1990, IS 10810 (P-5), RA 2021: 1984, IS:8130 (RA-2018): 2013
311.	Welding Cables	Elongation At Break	IS 9857 (RA-2020: 1990, IS 10810(Pt-7) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
312.	Welding Cables	Flammability Test	IS 9857 (RA-2020): 1990, IS 10810(Pt-54) (RA- 2021): 1984,
313.	Welding Cables	High Voltage Test (Water Immersion Test)	IS 9857 (RA-2020): 1990, IS 10810(Pt-45) (RA- 2021): 1984
314.	Welding Cables	Hot Set Test	IS 9857 (RA-2020): 1990, IS 10810(Pt-30) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
315.	Welding Cables	Oil Resistance Test	IS 9857 (RA-2020): 1990 IS 10810(Pt-31) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
316.	Welding Cables	Static Flexibility Test	IS 9857 (RA-2020) : 1990 IS 10810 (Pt-54) (RA- 2021): 1984

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



205 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
317.	Welding Cables	Tensile Strength	IS 9857 (RA-2020: 1990) IS 10810(Pt-7) (RA- 2021): 1984 IS 6380 (RA-2021: 1984
318.	Welding Cables	Thickness Of Covering	IS 9857 (RA-2020): 1990 IS 10810(Pt-6) (RA- 2021): 1984
319.	Elastomer Insulated Flexible cables for use in mines	Ageing In Air Bomb	IS 14494:2019 (RA 2024) IS 10810(Pt-56) (RA- 2017): 1987, IS 6380 (RA-2021): 1984
320.	Elastomer Insulated Flexible cables for use in mines	Ageing In Air Oven	IS 14494:2019 (RA 2024) IS 10810(Pt-11) (RA- 2021): 1984, IS 6380 (RA-2021): 1984
321.	Elastomer Insulated Flexible cables for use in mines	Annealing test	IS 14494:2019 (RA 2024) IS 10810(Pt-1) (RA- 2021): 1984 IS 8130 (RA-2018): 2013
322.	Elastomer Insulated Flexible cables for use in mines	Bending test	IS 14494: 2019 (RA 2024)
323.	Elastomer Insulated Flexible cables for use in mines	Conductor Resistance Test	IS 14494:2019 IS 10810 (Pt-5) (RA- 2021): 1984 IS 8130 (RA-2018): 2013

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



206 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
324.	Elastomer Insulated Flexible cables for use in mines	Diameter of Armourwire	IS 14494:2019 (RA 2024) IS 10810(Pt-36) (RA- 2021): 1984, IS 3975:1999
325.	Elastomer Insulated Flexible cables for use in mines	Elongation at break	IS 14494:2019 (RA 2024) IS 10810(Pt-37) (RA- 2021): 1984, IS 3975:1999 (RA 2021)
326.	Elastomer Insulated Flexible cables for use in mines	Flammability test	IS 14494:2019 (RA 2024), IS 10810(Pt -54) (RA-2021): 1984
327.	Elastomer Insulated Flexible cables for use in mines	High voltage test	IS 14494:2019 (RA 2024), IS 10810(Pt -45) (RA-2021): 1984
328.	Elastomer Insulated Flexible cables for use in mines	Hot set test	IS 14494:2019 (RA 2024) IS 10810(Pt-30) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
329.	Elastomer Insulated Flexible cables for use in mines	Insulation Resistance Test	IS: 14494:2019 (RA 2024), IS 10810 (Pt -43) (RA-2021): 1984, IS 6380 (RA 2021):1984
330.	Elastomer Insulated Flexible cables for use in mines	Mass of Zinc Coating	IS 14494:2019 (RA 2024), IS 10810 (Pt-41) (RA- 2021): 1984
331.	Elastomer Insulated Flexible cables for use in mines	Oil Resistance Test	IS 14494:2019 IS 10810 (Pt-31) (RA- 2021): 1984

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[www.qai.org.in](http://www.qai.org.in)



207 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
			IS 6380 (RA-2021): 1984
332.	Elastomer Insulated Flexible cables for use in mines	Ozone Resistance Test	IS 14494:2019 (RA 2024) IS 6380 (RA-2021): 1984, IS 10810(Pt-13) (RA- 2021): 1984
333.	Elastomer Insulated Flexible cables for use in mines	Resistivity of Steel Wire	IS 14494:2019 (RA 2024) IS 10810(Pt-42) (RA- 2021): 1984
334.	Elastomer Insulated Flexible cables for use in mines	Tear Resistance Test	IS 14494:2019 (RA 2024) IS 10810 (Pt-17) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
335.	Elastomer Insulated Flexible cables for use in mines	Tensile Strength	IS 14494:2019 IS 10810 (Pt-7) (RA- 2021): 1984 IS 6380 (RA-2021): 1984
336.	Elastomer Insulated Flexible cables for use in mines	Tensile Strength	IS 14494:2019 (RA 2024) IS 10810 (Pt-37) (RA- 2021): 1984
337.	Elastomer Insulated Flexible cables for use in mines	Thickness of Inner Sheath	IS 14494:2019 (RA 2024)
338.	Elastomer Insulated Flexible cables for use in mines	Thickness of Inner Sheath	IS 10810 (Pt-6) (RA- 2021): 1984, IS 14494:2019 (RA 2024)
339.	Elastomer Insulated Flexible cables for use in mines	Thickness of Insulation	IS 14494:2019 (RA 2024), IS 10810 (Pt-6) (RA- 2021): 1984,

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[www.qai.org.in](http://www.qai.org.in)



208 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
340.	Elastomer Insulated Flexible cables for use in mines	Thickness of Outer Sheath	IS 14494:2019 (RA 2024), IS 10810 (Pt-6) (RA- 2021): 1984
341.	Elastomer Insulated Flexible cables for use in mines	Torsion Test	IS 14494:2019 (RA 2024), IS 10810 (Pt-38) (RA- 2021): 1984
342.	Elastomer Insulated Flexible cables for use in mines	Uniformity of Zinc Coating	IS 14494:2019 (RA 2024) IS 10810 (Pt-40) (RA- 2021): 1984
343.	Elastomer Insulated Flexible cables for use in mines	Water Absorption Test	IS 14494:2019 (RA 2024), IS 10810(Pt -28) (RA-2021): 1984
344.	Electric and optical fibre cables	Flame Retardance test on Bunched Cables	IEC 60332-3-25:2018
345.	Electric and optical fibre cables	Flame Retardance test on Bunched Cables	IEC 60332-3-21:2018
346.	Electric and optical fiber cables	Flame Retardance test on Bunched Cables	IEC 60332-3-22:2018
347.	Electric and optical fiber cables	Flame Retardance test on Bunched Cables	IEC 60332-3-23:2018
348.	Electric and optical fiber cables	Flame Retardance test on Bunched Cables	IEC 60332-3-24:2018
349.	Electric and optical fiber cables	Flame Spread Test on Single Cable	IEC 60332-1-2:2004

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



209 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
350.	Electric and optical fiber cables	Conductivity	IEC 60754-2:2011
351.	Electric and optical fiber cables	pH	IEC 60754-2:2011
352.	Electric and optical fiber cables	Hot Set Test	IEC/BS EN 60811-507:2012
353.	Electric and optical fiber cables	Impact test at low temperature for insulations and sheaths	IEC/BS EN 60811-506:2012
354.	Electric and optical fiber cables	Measurement of overall dimensions	IEC/BS EN 60811-203:2012
355.	Electric and optical fiber cables	Oil Immersion Test	IEC/BS EN 60811-404:2012
356.	Electric and optical fiber cables	Ozone Resistance Test	IEC/BS EN 60811-403:2012
357.	Electric and optical fiber cables	Pressure Test at High Temperature	IEC/BS EN 60811-508:2012
358.	Electric and optical fiber cables	Resistance of insulations and sheaths to cracking (heat shock test)	IEC/BS EN 60811-509:2012
359.	Electric and optical fiber cables	Shrinkage test for insulation	IEC/BS EN 60811-502:2012
360.	Electric and optical fiber cables	Shrinkage Test for Sheath	IEC/BS EN 60811-503:2012
361.	Electric and optical fiber cables	Tensile Strength of Insulation and Sheath	IEC/BS EN 60811-501:2012
362.	Electric and optical fiber cables	Water Absorption Test (Electrical)	IEC/BS EN 60811-402:2012

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[www.qai.org.in](http://www.qai.org.in)



210 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
363.	Electric and optical fiber cables	Water Absorption Test (Gravimetric)	IEC/BS EN 60811-402:2012
364.	Electric and optical fiber cables	Test on Single Vertical flame test	BS EN 60332-1-2:2004
365.	Non-metallic materials	Measurements of Thickness of Sheath	IEC/BS EN 60811-202:2012
366.	Non-metallic materials	Tensile Strength and Elongation at break after conditioning at elevated temperature	BSEN/IEC 60811-512:2012
367.	Non-metallic materials	Wrapping after thermal ageing in air	BSEN/IEC 60811-510:2012
368.	Performance Requirements for cables requirements to maintain circuit integrity under for conditions / Fire Survival Cables	Resistance to fire alone (Protocol C)	BS 6387:2013
369.	Performance Requirements for cables requirements to maintain circuit integrity under	Resistance to fire to with water (Protocol W)	BS 6387:2013

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[www.qai.org.in](http://www.qai.org.in)



211 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
	for conditions / Fire Survival Cables		
370.	Performance Requirements for cables requirements to maintain circuit integrity under for conditions / Fire Survival Cables	Resistance to fire with mechanical shock (Protocol Z)	BS 6387:2013
371.	Electric and optical fiber cables	Test for electric cables under fire conditions- Circuit Integrity	IEC 60331-25:1999
372.	Electric and optical fiber cables	Resistance to fire with mechanical shock	IEC 60331-1:2018
373.	Electric and optical fiber cables	Test for electric cables under fire conditions- Circuit Integrity	IEC 60331-21:1999
374.	Electric and optical fiber cables	Circuit integrity test under fire condition	IEC 60331-21:2018
375.	Electric and optical fiber cables	Resistance to fire with mechanical shock	IEC 60331-2:2018
376.	Electric and optical fiber cables	Resistance to fire with mechanical shock	IEC 60331-3:2018
377.	Electric and optical fiber cables	Fire with shock at a temperature of at least 830 °C	IEC 60331-12:2002

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[www.qai.org.in](http://www.qai.org.in)



212 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
378.	Electric and optical fiber cables	Fire alone at a flame temperature of at least 750 degree C	IEC 60331-11:1999
379.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-1:2007
380.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-1:2007
381.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-1:2007
382.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ovality test	IEC 60227-1:2007
383.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-2:1997

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[www.qai.org.in](http://www.qai.org.in)



213 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
384.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-2:1997
385.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-2:1997
386.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ovality test	IEC 60227-2:1997
387.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-3:2024
388.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-3:2024
389.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-4:2024
390.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-4:20241

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[www.qai.org.in](http://www.qai.org.in)



214 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
391.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-4:2024
392.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ovality test	IEC 60227-4:2024
393.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-5:2011
394.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-5:2011
395.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-5:2011
396.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ovality test	IEC 60227-5:2011
397.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-6:2001

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[www.qai.org.in](http://www.qai.org.in)



215 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
398.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-6:2001
399.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mean value of diameter	IEC 60227-6:2001
400.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ovality test	IEC 60227-6:2001
401.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	"Heat shock test (Insulation / Sheath)"	IEC 60227-7:2024
402.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	"Loss of Mass (Insulation and sheath)"	IEC 60227-7:2024
403.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	"Pressure test at high temperature (Insulation / Sheath)"	IEC 60227-7:2024
404.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Compatibility Test	IEC 60227-7:2024

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[www.qai.org.in](http://www.qai.org.in)



216 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
405.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Impact test	IEC 60227-7:2024
406.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Insulation Resistance	IEC 60227-7:2024
407.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Measurement of overall diameter	IEC 60227-7:2024
408.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Mineral Oil Resistance of sheath	IEC 60227-7:2024
409.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Resistance of conductors	IEC 60227-7:2024
410.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Tensile test after ageing (insulation / inner sheath / overs heath)	IEC 60227-7:2024
411.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Tensile test before ageing (insulation / inner sheath / over sheath)	IEC 60227-7:2024

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[www.qai.org.in](http://www.qai.org.in)



217 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
412.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Test of flame retardance	IEC 60227-7:2024
413.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Thickness of insulation / inner sheath / over sheath	IEC 60227-7:2024
414.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Voltage test	IEC 60227-7:2024
415.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ageing in air oven Elongation at Break Variation (Insulation & Sheath)	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
416.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ageing in air oven Tensile Strength Variation (Insulation & Sheath)	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011

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[www.qai.org.in](http://www.qai.org.in)



218 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
417.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Conductor Resistance	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
418.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Durability & Legibility of Marking	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
419.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Elongation at break (Insulation and Sheath)	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
420.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Flammability Test	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011

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[www.qai.org.in](http://www.qai.org.in)



219 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
421.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Heat Shock Test	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-4:2024 IEC 60227-5:2011
422.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	High Voltage test (Water immersion)	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
423.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	High Voltage test at room temperature	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
424.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Hot deformation test / Pressure Test at High Temperature	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011

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[www.qai.org.in](http://www.qai.org.in)



220 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
425.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	High Voltage test at room temperature	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
426.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Insulation Resistance	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
427.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Loss of Mass	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
428.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Tensile strength (Insulation and Sheath)	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011

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[www.qai.org.in](http://www.qai.org.in)



221 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
429.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Test for eccentricity and Thickness of insulation and sheath / Overall Dimensions	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
430.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Thermal Stability	IEC 60227-1:2007 IEC 60227-2:1997 IEC 60227-3:2024 IEC 60227-:2024 IEC 60227-5:2011
431.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Ageing in Air Oven	IEC 60227-6:2001
432.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Durability & Legibility of Marking	IEC 60227-6:2001
433.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Heat Shock Test	IEC 60227-6:2001

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[www.qai.org.in](http://www.qai.org.in)



222 of 273



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
434.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	High Voltage test (Water immersion)	IEC 60227-6:2001
435.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	High Voltage test at room temperature	IEC 60227-6:2001
436.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Hot deformation test / Pressure Test at High Temperature	IEC 60227-6:2001
437.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Insulation Resistance	IEC 60227-6:2001
438.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Loss of Mass	IEC 60227-6:2001
439.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Tensile strength and elongation at break on Insulation and Sheath	IEC 60227-6:2001

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[www.qai.org.in](http://www.qai.org.in)



223 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
440.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Test for eccentricity and Thickness of insulation and sheath / Overall Dimensions	IEC 60227-6:2001
441.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Test under Fire Conditions / Flammability Test	IEC 60227-6:2001
442.	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	Thermal Stability	IEC 60227-6:2001
443.	UV Exposure of Non-metallic materials	UV Test	ASTM G 151 -10:2010 & ASTM G 151 - 19:
444.	UV Exposure of Non-metallic materials	UV Test	ASTM G 154 -16
445.	UV Exposure of Non-metallic materials	UV Test	ASTM G 152
446.	Fire Resistance, Low Smoke Zero Halogen Insulated electric Cable, electric cable	Oxygen Index	ASTM D 2863

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[www.qai.org.in](http://www.qai.org.in)



224 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
447.	FR / FR-LSH Wires and Cables	Flammability Test	IEC:60332-3-23: 2010
448.	FR / FR-LSH Wires and Cables	Flame Retardance Test For Bunched Cables	IS:10810(PART-62) RA:2019: 1993
449.	FR / FR-LSH Wires and Cables	Flame Retardance Tests For Bunched Cables	IEC:60332-3-21: 2010
450.	FR / FR-LSH Wires and Cables	Flame Retardant Test On Single cable	SS 424-1475: 2019
451.	FR / FR-LSH Wires and Cables	Flame Retardant Test On Single Cable.	IS:10810 (Part-61) RA:2020: 1988
452.	FR / FR-LSH Wires and Cables	Flammability Test	IEC60332-2-2: 2010
453.	FR / FR-LSH Wires and Cables	Oxygen Index Test	IS:10810(PART-58) RA:2019: 1998
454.	FR / FR-LSH Wires and Cables	Oxygen Index Test	ASTM D:2863: 2019
455.	FR / FR-LSH Wires and Cables	Temperature Index Test	ASTM D:2863: 2019
456.	FR / FR-LSH Wires and Cables	Temperature Index Test	IS 10810 (Part-64) RA:2018: 2003
457.	FR-LSH Wires and Cables	Halogen Acid Gas Generation Test	IS 10810 (Part-59) RA:2020: 1988

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[www.qai.org.in](http://www.qai.org.in)



225 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
458.	FR-LSH Wires and Cables	Halogen Acid Gas Generation Test	IEC 60754-1: 2011
459.	FR-LSH Wires and Cables	Smoke Density Test	ASTM D:2843: 2010
460.	FR-LSH Wires and Cables and Other Polymeric Materials	Smoke Density Test	IS 13360 (Part-6/Sec- 9): 2001
461.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Annealing Test (For Copper)	CI 3.2 & 17.1 of IS 16246 :2015 (RA 2020), Table 2, IS 8130:2013 (RA 2018) IS 10810 (Part-1):1984 (RA 2021)
462.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Flame Retardance test on Single cable	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), CI 18.4.1, IS 10810 (Part 61):1988 (RA 2020)
463.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	High Voltage test on Insulation	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2024), CI.18.2, IS 10810 (Part 45):1984 (RA 2021)
464.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Insulation Resistance Test	CI 3.2 & CI 17.1 of IS 16246 :2015, IS 6380:2024 IS 10810 (Part 43):1984

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[www.qai.org.in](http://www.qai.org.in)



226 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
465.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Oxygen Index Test on Sheath	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2024), IS 10810 (Part 58):1998 (RA 2019)
466.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Tensile Strength for Armoring Material	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 3975:1999 (RA 2021 IS 10810 (Part 37):1984 (RA 2021)
467.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Test of acid gas generation on sheath	CI 3.2 & CI. 17.1 of IS 16246 :2015 (RA 2024), IS 10810 (Part 59):1988 (RA 2020)
468.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Dimension of Armoring Material	CI 3.2 & CI 17.1 of IS 16246 :2015, IS 3975:1999 IS 10810 (Part 36):1984
469.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Elongation at Break for Armoring Material.	CL 3.2 & 17.1 of IS 16246 :2015 (RA 2020) , IS 3957:1999 (RA 2021) IS 10810 (Part 37):1984 (RA 2021)
470.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Elongation at break of insulation and sheath before and after ageing	CI. 3.2 & 17.1 of IS 16246 :2015 (RA 2020), IS 6380:2024 IS 5831:1984 IS 10810 (Part 7):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



227 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
471.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Test of overall dimensions and thickness of insulation and sheath.	CI 3.2 & Cl. 17.1 of IS 16246 :2015 (RA 2020), CI 11, 14, 16, IS 10810 (Part 6):1984 (RA 2021)
472.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Torsion test on galvanized steel wire for armoring	CI 3.2 & CI 17.1 IS 16246 :2015 (RA 2021), IS 3975 :1999 (RA 2021) IS 10810 (Part 38):1984 (RA 2021)
473.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Circuit Integrity under Fire Condition	CI 3.2, Cl. 18.3 and 17.1 of IS 16246:2015
474.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Conductor Resistance Test	CI 3.2 and 17.1, IS 16246:2015 (RA 2020), IS 8130:2013 (2018) IS 10810 (Part-5):1984 (RA 2021)
475.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Hot set Test on Insulation and Sheath	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 6380:2024 IS 10180 (part 30):1984 (RA 2021)
476.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Mass of Zinc Coating	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 3975:1999 (RA 2021) IS 10810 (Part 41):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



228 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
477.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Persulphate test for tinned copper	CI 3.2 & cl 17.1 of IS 16246 :2015 (RA 2020), IS 8130:2013, IS 10810 (RA 2018) (Part 4):1984
478.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Temperature Index test on Sheath	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2024), IS 6380:2024, IS 10810 (Part 64):2003 (RA 2022)
479.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Tensile strength of insulation and sheath, before ageing and after ageing	CI 3.2 & CI. 17.1 of IS 16246 :2015 (RA 2020), IS 6380:2024, IS 5831:1984 (RA 2021), IS 10810 (Part 7):1984 (RA 2021)
480.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Water Absorption (on Insulation)	CI 3.2 & CI. 17.1 of IS 16246 :2015 (RA 2020), IS 6380:2024, IS 10810 (Part 28):1984 (RA 2021)
481.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Ageing in air bomb	CI.3.2 and 17.1 of IS 16246 :2015 (RA 2020), Table 2, IS 10810 (Part 11):1984 (RA 2021)

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[www.qai.org.in](http://www.qai.org.in)



229 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
482.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Winding test for formed wires	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 3975:1999 (RA 2021), IS 10810 (Part 39):1984 (RA 2021)
483.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Uniformity of zinc coating	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 3975:1999, IS 10810 (Part 40):1984 (RA 2021)
484.	Elastomer Insulated Cables with Limited Circuit Integrity when affected by Fire	Flame retardant test on bunched cable	CI 3.2 & CI 17.1 of IS 16246 :2015 (RA 2020), IS 3975:1999 (RA 2021), IS 10810 (Part 62):1993 (RA 2019)
485.	Electrical Cables for photovoltaic systems	Ageing in Air Oven	IEC 62930:2017 /BS EN 50618:2014
486.	Electrical Cables for photovoltaic systems	Assessment of Halogens for all nonmetallic materials	IEC 62930:2017/BS EN 50618:2014
487.	Electrical Cables for photovoltaic systems	Hot Set Test	IEC 62930:2017/BS EN 50618
488.	Electrical Cables for photovoltaic systems	Insulation Thickness	IEC 62930:2017/BS EN 50618:2014

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[www.qai.org.in](http://www.qai.org.in)



230 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
489.	Electrical Cables for photovoltaic systems	Long term resistance of insulation to dc	IEC 62930:2017/BS EN 50618:2014
490.	Electrical Cables for photovoltaic systems	Marking	IEC 62930:2017/BS EN 50618:2014
491.	Electrical Cables for photovoltaic systems	Measurement of insulation resistance	IEC 62930:2017/BS EN 50618:2014
492.	Electrical Cables for photovoltaic systems	Measurement of the resistance of conductor	IEC 62930:2017/BS EN 50618:2014
493.	Electrical Cables for photovoltaic systems	Ovality	IEC 62930:2017/BS EN 50618:2014
494.	Electrical Cables for photovoltaic systems	Sheath resistance against acid and alkaline solution	IEC 62930:2017/BS EN 50618:2014
495.	Electrical Cables for photovoltaic systems	Sheath Thickness	IEC 62930:2017/BS EN 50618:2014
496.	Electrical Cables for photovoltaic systems	Shrinkage Test on Sheath	IEC 62930:2017/BS EN 50618:2014
497.	Electrical Cables for photovoltaic systems	Surface Resistance of Sheath	IEC 62930:2017/BS EN 50618:2014

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[www.qai.org.in](http://www.qai.org.in)



231 of 273

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## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables & Wires		
498.	Electrical Cables for photovoltaic systems	Tensile Strength before ageing	IEC 62930:2017/BS EN 50618:2014
499.	Electrical Cables for photovoltaic systems	Vertical Flame propagation test	IEC 62930:2017/BS EN 50618:2014
500.	Electrical Cables for photovoltaic systems	Voltage test on complete cable	IEC 62930:2017/BS EN 50618:2014

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[www.qai.org.in](http://www.qai.org.in)



232 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
1.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Adhesion to backing	IS 7809 (P-3/S-1): 1986 (RA 2016, IS 7809 (P-2): 1977, RA 2021
2.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Adhesion to Steel	IS 7809 (P-3/S-1): 1986 (RA 2016, IS 7809 (P-2): 1977, RA 2021
3.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Electric Strength at Room Temperature/ After Humid Conditioning	IS 7809 (P-3/S-1): 1986 (RA 2016), IS 7809 (P- 2): 1977, RA 2021
4.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Electrolytic Corrosion Test	IS 7809 (P-3/S-1): 1986 (RA 2016), IS 7809 (P- 2): 1977, RA 2021
5.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Flammability Test	IS 7809 (P-3/S-1): 1986 (RA 2016), IS 7809 (P- 2): 1977, RA 2021
6.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Appearance	IS 7809 (P-1): 1975, RA 2022

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[www.qai.org.in](http://www.qai.org.in)



233 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
7.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Freedom From Defects	Cl.5 of IS 7809 (P-1): 1975, RA 2023
8.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Length	IS 7809 (P-3/S-1): 1986 (RA 2016), IS 7809 (P-1): 1975, RA 2023
9.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Tensile Strength	IS 7809 -3-1: 1986 (RA 2016, IS 7809(P2):1977, RA 2021
10.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Thickness	IS 7809 -3-1: 1986 (RA 2016, IS 7809(P2): 1977, RA 2021
11.	Pressure Sensitive Adhesive Insulating Tape for Electric Purpose	Width	IS 7809 (P-3/S-1): 1986 (RA 2016), IS 7809 (P-1): 1975, RA 2023
12.	Enclosures for accessories for household and similar fixed installation	Marking	IS 14772: 2020

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[www.qai.org.in](http://www.qai.org.in)



234 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
13.	Enclosures for accessories for household and similar fixed installation	Compression Test	IS 14772: 2020
14.	Enclosures for accessories for household and similar fixed installation	Constructions	IS: 14772:2020
15.	Enclosures for accessories for household and similar fixed installation	Cree page Distances, Clearance and Distance through Sealing Compound	IS 14772: 2020
16.	Enclosures for accessories for household and similar fixed installation	Dimension	IS: 14772:2020
17.	Enclosures for accessories for household and similar fixed installation	Impact Test at Low Temperature	IS 14772: 2020
18.	Enclosures for accessories for household and similar fixed installation	Insulation Resistance and Electric Strength	IS 14772: 2020

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



235 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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QAI/CIA/TL/2024/0075

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Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
19.	Enclosures for accessories for household and similar fixed installation	Mechanical Strength	IS 14772: 2020
20.	Enclosures for accessories for household and similar fixed installation	Protection against electric shock	IS 14772: 2020
21.	Enclosures for accessories for household and similar fixed installation	Provision for Earthing	IS 14772:2020
22.	Enclosures for accessories for household and similar fixed installation	Resistance of Insulating material to Abnormal Heat and Fire	IS 14772: 2020
23.	Enclosures for accessories for household and similar fixed installation	Resistance to Corrosion	IS 14772: 2020
24.	Enclosures for accessories for household and similar fixed installation	Resistance to Heat	IS 14772: 2020

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236 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
25.	Enclosures for accessories for household and similar fixed installation	Resistance to Tracking	IS 14772: 2020
26.	M.S. Conduit Pipe	Bending Test	IS 9537 (P-2), Cl.9: 1981, RA-2017
27.	M.S. Conduit Pipe	Compression test	IS 9537 (P-1), Cl.9.3: 1980, RA-2020
28.	M.S. Conduit Pipe	Dimension Test	IS 9537 (P-2), Cl.6: 1981, RA-2017
29.	Rigid Plain Conduits of Insulating Material	Bending Test	IS 9537 (P-3), Cl.9.2: 1983, RA 2017
30.	Rigid Plain Conduits of Insulating Material	Collapse Test	IS 9537 (P-1 and 3), Cl.9.5: 1983, RA 2017
31.	Rigid Plain Conduits of Insulating Material	Compression Test	IS 9537 (P-1 and 3), Cl.9.3: 1983, RA 2017
32.	Rigid Plain Conduits of Insulating Material	Electrical Characteristics- Electrical Strength	IS 9537 (P-1 and 3), Cl.12.1.1: 1983, RA 2017
33.	Rigid Plain Conduits of Insulating Material	Electrical Characteristics- Insulation Resistance	IS 9537 (P-1 and 3), Cl.12.1.2: 1983, RA 2017

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



237 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
34.	Rigid Plain Conduits of Insulating Material	Impact Test	IS 9537 (P-1 and 3), Cl.9.4: 1983, RA 2017
35.	Rigid Plain Conduits of Insulating Material	Marking	IS 9537 (P-1 and 3), Cl.6: 1983, RA 2017
36.	Rigid Plain Conduits of Insulating Material	Resistance to Burning	IS 9537 (P-1 and 3), Cl.11: 1983, RA 2017
37.	Rigid Plain Conduits of Insulating Material	Resistance to Heat	IS 9537 (P-3), Cl.10: 1983, RA 2017
38.	Rigid Plain Conduits of Insulating Material	Construction	IS 9537 (P-1 and 3) Cl.8: 1983, RA 2017
39.	Rigid Plain Conduits of Insulating Material	Dimension Test	IS 9537 (P-3), Cl.7: 1983, RA 2017
40.	Rigid Plain Conduits of Insulating Material	Construction of Fixed Socket Outlets	Cl.13 of IS 1293: 2019
41.	Rigid Plain Conduits of Insulating Material	Terminal	Cl.12 of IS 1293: 2019
42.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Construction of Plugs and Portable Socket Outlets	Cl.14 of IS 1293: 2019

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[www.qai.org.in](http://www.qai.org.in)



238 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
43.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Creepage Distances and Clearances Distances	Cl.27 of IS 1293: 2019
44.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Flexible Cable and their Connection	Cl.23 of IS 1293: 2019
45.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Force Necessary to Withdraw the Plug	Cl.22 of IS 1293: 2019

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[www.qai.org.in](http://www.qai.org.in)



239 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida  
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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
46.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Insulation Resistance and Electric Strength Test	Cl.17 of IS 1293: 2019
47.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Interlocked Socket Outlets	IS 1293 Cl.15: 2019
48.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Mechanical Strength	IS 1293 Cl.24: 2019

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[www.qai.org.in](http://www.qai.org.in)



240 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
49.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Operation of Earthing Contacts	IS 1293 Cl.18: 2019
50.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Resistance of Insulation Material Abnormal Heat, to Fire and Tracking test	IS 1293 Cl.28: 2019
51.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Resistance To Ageing Test	IS 1293 Cl.16.1: 2019
52.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current	Resistance to Heat	1293 Cl.25: 2019

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[www.qai.org.in](http://www.qai.org.in)



241 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
	up to And Including 16 Amperes		
53.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Resistance to Humidity Test	1293 Cl.16.3: 2019
54.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Temperature Rise	IS 1293 Cl.19: 2019
55.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Impact Test at Low Temperature for insulating sleeves	IS:1293, Cl: 30.4: 2019
56.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current	Pressure Test at High Temperature for insulating sleeves	IS:1293, Cl:30.1:2019

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[www.qai.org.in](http://www.qai.org.in)



242 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
	up to And Including 16 Amperes		
57.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Static damp heat test for insulating sleeves	IS:1293, Cl:30.2 :2019
58.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Tests at Low Temperature for insulating sleeves	IS:1293, Cl: 30.3: 2019
59.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Classification	IS 1293 Cl.7: 2019
60.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current	Constructions of Fixed socket outlets	IS:1293, Cl .13.1 to 13.23, Table 4, 14,15: 2019

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[www.qai.org.in](http://www.qai.org.in)



243 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
	up to And Including 16 Amperes		
61.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Dimensions	IS 1293 Cl.9: 2019
62.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Making and Breaking Capacity	IS 1293 Cl.20: 2019
63.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Protection Against Electric Shock	IS 1293 Cl.10: 2019
64.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current	Provision For Earthing	IS 1293 Cl.11: 2019

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[www.qai.org.in](http://www.qai.org.in)



244 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
	up to And Including 16 Amperes		
65.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Resistance to Rusting	Cl.29 of IS 1293: 2019
66.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Screw current carrying parts and connection	Cl .26.1 to 26.7 IS:1293: 2019
67.	Plug & Socket Outlet of Rated Voltage Up to And Including 250 Volts and Rated Current up to And Including 16 Amperes	Terminals	IS:1293, Cl .12.1 to 12.3.12, Table 6 to 12:2019
68.	Switches for domestic & Similar purpose	Provision for earthing	Cl. 11 of IS 3854, 2023

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245 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
69.	Switches for domestic & Similar purpose	Constructional Requirements	Cl.13 of IS 3854, 2023
70.	Switches for domestic & Similar purpose	Creepage Distance and Clearances Distance	Cl.23 of IS 3854, 2023
71.	Switches for domestic & Similar purpose	Insulation Resistance and Electric Strength Test	Cl.16 of IS 3854, 2023
72.	Switches for domestic & Similar purpose	Resistance to Abnormal Heat, Fire Test & Tracking	Cl.24.1, 24.2 of IS 3854, 2023
73.	Switches for domestic & Similar purpose	Resistance to Ageing Test	Cl.15.1 of IS 3854, 2023
74.	Switches for domestic & Similar purpose	Resistance to Heat	Cl.21 of IS 3854, 2023
75.	Switches for domestic & Similar purpose	Resistance to Humidity	Cl.15.3 of IS 3854, 2023

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



246 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
76.	Switches for domestic & Similar purpose	Resistance to Rusting	Cl.25 of IS 3854, 2023
77.	Switches for domestic & Similar purpose	Screws, Current Carrying Parts and Connections	Cl.22 of IS 3854, 2023
78.	Switches for domestic & Similar purpose	Temperature Rise	Cl.17 of IS 3854, 2023
79.	Switches for domestic & Similar purpose	Checking of Dimensions	Cl.9 of IS 3854, 2023
80.	Switches for domestic & Similar purpose	Classification	Cl.7 of IS 3854, 2023
81.	Switches for domestic & Similar purpose	Marking	Cl.8 of IS 3854, 2023
82.	Switches for domestic & Similar purpose	Making and breaking Capacity	Cl.18 of IS 3854, 2023

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



247 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
83.	Switches for domestic & Similar purpose	Mechanical Strength	Cl.20 of IS 3854, 2023
84.	Switches for domestic & Similar purpose	Mechanism	Cl.14 of IS 3854, 2023
85.	Switches for domestic & Similar purpose	Normal Operation	Cl.19 of IS 3854, 2023
86.	Switches for domestic & Similar purpose	Protection Against Electric Shock	Cl.10 of IS 3854, 2023
87.	Switches for domestic & Similar purpose	Ratings	Cl.6 of IS 3854, 2023
88.	Switches for domestic & Similar purpose	Resistance to rusting	Cl.25 of IS 3854, 2023
89.	Switches for domestic & Similar purpose	Resistance to Tracking	Cl.24.2 of IS 3854, 2023

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



248 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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(Name change w.e.f.: 09 April 2025)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
90.	Switches for domestic & Similar purpose	Terminals	Cl.12 of IS 3854, 2023
91.	Fittings for Rigid Non-metallic Conduits	Dimensions	IS 9537 (P-3):1983 RA 2017
92.	Fittings for Rigid Non-metallic Conduits	Visual Examination	IS 3419:1988 (RA 2017)
93.	Fittings for Rigid Non-metallic Conduits	Checking of Dimensions	IS 3419:1988 (RA 2017)
94.	Fittings for Rigid Non-metallic Conduits	Resistance to Heat	IS 3419:1988 (RA 2017)
95.	Fittings for Rigid Non-metallic Conduits	Resistance to Burning	IS 3419:1988 (RA 2017)
96.	Fittings for Rigid Non-metallic Conduits	Moisture Absorption test	IS 3419:1988 (RA 2017)

This is an annexure to 'Certificate of Accreditation' and does not require any signature.

[www.qai.org.in](http://www.qai.org.in)



249 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
97.	Fittings for Rigid Non-metallic Conduits	Resistance to chemical action	IS 3419:1988 (RA 2017)
98.	Fittings for Rigid Non-metallic Conduits	Copper test	IS 3419:1988 (RA 2017)
99.	Fittings for Rigid Non-metallic Conduits	Resistance to Oil	IS 3419:1988 (RA 2017)
100.	Fittings for Rigid Non-metallic Conduits	Resistance to Impact	IS 3419:1988 (RA 2017)
101.	Fittings for Rigid Non-metallic Conduits	Electrical characteristics (Electric strength)	IS 3419:1988 (RA 2017)
102.	Fittings for Rigid Non-metallic Conduits	Insulation resistance	IS 3419:1988 (RA 2017)
103.	Cable trunking and ducting system	General requirements	IS 14927 (Part-1) 2023

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[www.qai.org.in](http://www.qai.org.in)



250 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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**Indian Testing Laboratory Private Limited**

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Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Valid until: 10 September 2026

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
104.	Cable trunking and ducting system	Classifications	IS 14927 (Part-1) 2023
105.	Cable trunking and ducting system	Marking	IS 14927 (Part-1) 2023
106.	Cable trunking and ducting system	Dimensions	IS 14927 (Part-1) 2023
107.	Cable trunking and ducting system	Constructions	IS 14927 (Part-1) 2023
108.	Cable trunking and ducting system	Impact test	IS 14927 (Part-1) 2023
109.	Cable trunking and ducting system	Linear deflection test	IS 14927 (Part-1) 2023
110.	Cable trunking and ducting system	External load test (Cover retention test)	IS 14927 (Part-1) 2023

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[www.qai.org.in](http://www.qai.org.in)



251 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
111.	Cable trunking and ducting system	Resistance to flame propagation	IS 14927 (Part-1) 2023
112.	Cable trunking and ducting system	Flame test	IS 14927 (Part-1) 2023
113.	Cable trunking and ducting system	Glow wire test	IS 14927 (Part-1) 2023
114.	Cable trunking and ducting system	Electrical characteristics	IS 14927 (Part-1) 2023
115.	Cable trunking and ducting system	Resistance of the sample per unit length	IS 14927 (Part-1) 2023
116.	Cable trunking and ducting system	Earthing resistance	IS 14927 (Part-1) 2023

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[www.qai.org.in](http://www.qai.org.in)



252 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

Gautam Budh Nagar-201306, Uttar Pradesh, India

QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
1.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	General Requirement	IS 302-2-201: 2008 (RA 2018)
2.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Abnormal Operation	IS 302-2-201: 2008 (RA 2018)
3.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Classification	Is 302-2-201: 2008(RA 2018)
4.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Clearances Cree page, Distances and Solid Insulation	IS 302-2-201: 2008 (RA 2018)
5.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Component	IS 302-2-201: 2008 (RA 2018)
6.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Construction	IS 302-2-201: 2008 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



253 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
7.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Endurance	IS 368: 2014 (RA 2019)
8.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	General Notes on Tests	IS 302-2-201: 2008 (RA 2018)
9.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Heating	IS 302-2-201: 2008 (RA 2018)
10.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Internal Wiring	IS 302-2-201: 2008 (RA 2018)
11.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Leakage Current and Electric Strength at Operating Temperature	IS 302-2-201: 2008 (RA 2018)
12.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Marking	IS 302-2-201 2008: (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



254 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
13.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Mechanical Strength	IS 302-2-201: 2008 (RA 2018)
14.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Moisture Resistance	IS 302-2-201: 2008 (RA 2018)
15.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Operation under Overload Condition of Appliances with heating Element	IS 368: 2014 (RA 2019)
16.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Power Input and Current	IS 302-2-201: 2008 (RA 2018)
17.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Protection against access to Live Parts	IS 302-2-201: 2008 (RA 2018)
18.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Provision for Earthing	IS 302-2-201, 302-1: 2008 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



255 of 273

# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
19.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Resistance to Heat and Fire	IS 302-2-201, 302-1: 2008 (RA 2018)
20.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Resistance to Rusting	IS 302-2-201, 302-1: 2008 (RA 2018)
21.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Screw and Connections	IS 302-2-201, 302-1: 2008 (RA 2018)
22.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Stability and Mechanical Hazard	IS 302-2-201: 2008 (RA 2018)
23.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Supply Connection and External Flexible Cords	IS 302-2-201: 2008 (RA 2018)

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[www.qai.org.in](http://www.qai.org.in)



256 of 273

# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
24.	Electric Immersion Water Heater Safety of Household and Similar Electrical Appliances	Terminal for External Conductors	IS 302-2-201, 302-1: 2008 (RA 2018)
25.	Electric Instantaneous Water Heaters	Classification	Cl.7, 7.1 of IS:8978:1992 (RA 2014)
26.	Electric Instantaneous Water Heaters	Endurance Test	Cl.12, 12.1 of IS:8978: 1992 (RA 2014)
27.	Electric Instantaneous Water Heaters	Finish	Cl.10, 10.1 of IS:8978: 1992 (RA 2014)
28.	Electric Instantaneous Water Heaters	Marking	Cl.8, 8.1, 8.1.1 of IS:8978: 1992 (RA 2014)
29.	Electric Instantaneous Water Heaters	Rating	Cl.6, 6.1 of IS:8978: (RA 2014) (RA 2014)
30.	Stationary storage type electric water heater	Abnormal Operation	Cl.19 of IS 302-2- 21:2024 & 302-1: 2024
31.	Stationary storage type electric water heater	Classification	Cl.6 of IS 302-2 21:2024

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[www.qai.org.in](http://www.qai.org.in)



257 of 273



# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
32.	Stationary storage type electric water heater	Classification	Cl.6 of IS 2082: 2018
33.	Stationary storage type electric water heater	Clearances, Creepage Distances and Solid Insulation	Cl.29 of 3022-2 21: 2024 & 302-1: 2024
34.	Stationary storage type electric water heater	Components	Cl.24 of 302-2 21: 2024 & 302-1: 2024
35.	Stationary storage type electric water heater	Construction	Cl.22.1-22.111 of IS of 3022-2 21 : 2024 & 302-1: 2024
36.	Stationary storage type electric water heater	Cyclic temperature variation (Differential)	Cl.20, 20.1, 20.2 of IS 2082: 2018
37.	Stationary storage type electric water heater	Deviation from dial calibration	Cl.19, 19.1, 19.2 of IS 2082: 2018
38.	Stationary storage type electric water heater	Finish	Cl.21, 21.1 of IS 2082: 2018
39.	Stationary storage type electric water heater	General conditions For measurement	Cl.9, 9.1, 9.2 of IS 2082: 2018

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[www.qai.org.in](http://www.qai.org.in)



258 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
40.	Stationary storage type electric water heater	General conditions for tests	Cl.5 of IS 2082: 2018
41.	Stationary storage type electric water heater	General conditions for tests	Cl.5 of IS 302-2 21: 2024
42.	Stationary storage type electric water heater	General Requirement	Cl.4 of IS 2082: 2018
43.	Stationary storage type electric water heater	Heating	Cl.11.1-11.8 of IS 302-2 21: 2024
44.	Stationary storage type electric water heater	Hot water output	Cl.16, 16.1 of IS 2082: 2018
45.	Stationary storage type electric water heater	Internal Wiring	Cl.23.1-23.8 of IS 302-2 21 & 302-1 2024
46.	Stationary storage type electric water heater	Leakage Current & Electric Strength	Cl.16, 16.1,16.2,16.3 of IS 302-2 21, & 302-1 :2024
47.	Stationary storage type electric water heater	Leakage Current and Electric strength at operating Temp.	Cl.13, 13.1-13.3 of IS 302-2 21: 2018

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[www.qai.org.in](http://www.qai.org.in)



259 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
48.	Stationary storage type electric water heater	Marking and Instruction	Cl.7 of IS 302-2 21: 2024
49.	Stationary storage type electric water heater	Marking and Instruction	Cl.7 of IS 2082: 2018
50.	Stationary storage type electric water heater	Measurement of energy consumption	Cl.13, 13.1 of IS 2082: 2018
51.	Stationary storage type electric water heater	Measurements of stored water temperature	Cl.11, 11.1, 11.2 of IS 2082: 2018
52.	Stationary storage type electric water heater	Mechanical strength	Cl.21 of IS 302-2 21 & 302-1 : 2024
53.	Stationary storage type electric water heater	Mixing Factor	Cl.18, 18.1, 18.2 of IS 2082: 2018
54.	Stationary storage type electric water heater	Moisture Resistant	Cl.15, 15.2, 15.3, 15.2.1, 15.2.2 of IS 302-2 21: 2018
55.	Stationary storage type electric water heater	Mounting of the water heater	Cl.10, 10.1 of IS 2082: 2018

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260 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
56.	Stationary storage type electric water heater	Overload Protection of Transformers & Associated Circuit	Cl.17 of IS 302-2 21 & 302-1 2024
57.	Stationary storage type electric water heater	Power Input & Current	Cl.10 of IS 302-2 21 & IS 302-1 2024
58.	Stationary Storage Type Electric Water Heater	Protection against access to life parts	Cl.8 of IS 302-2 21 & IS 302-1: 2024
59.	Stationary Storage Type Electric Water Heater	Provision for Earthing	Cl.27.1-27.5 of IS 302-2 21 & 302-1 2008: 2018
60.	Stationary Storage Type Electric Water Heater	Reheating Time	Cl.17, 17.1, 17.2 of IS 2082: 2018
61.	Stationary Storage Type Electric Water Heater	Resistance to Rusting	Cl.31 of 302-2 21 & 302-1 2024
62.	Stationary Storage Type Electric Water Heater	Resistant to Heat and Fire	Cl.30 of 3022-2 21 & 302-1 2024
63.	Stationary Storage Type Electric Water Heater	Safety Requirement	Cl.8, 8.1 of IS 2082: 2018

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261 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
64.	Stationary Storage Type Electric Water Heater	Screw and Connections	Cl.28 of IS 302-2 21 & 302-1 2024
65.	Stationary Storage Type Electric Water Heater	Stability and Mechanical Hazards	Cl.20, 20.1 of IS 302- 2 21 & 302-1 2024
66.	Stationary Storage Type Electric Water Heater	Standing loss per 24 hours	Cl.15, 15.1, 15.2, 15.2.1, 15.2.2 of IS 2082: 2018
67.	Stationary Storage Type Electric Water Heater	Supply Connection and External Flexible Cards	Cl.25.1-25.20 of IS 302-2 21 & 302-1:2024
68.	Stationary Storage Type Electric Water Heater	Terminals for External Conductors	Cl.26.1,26.8,26.9,26.1 of IS 302-2 21 & 302-1: 2024
69.	Stationary Storage Type Electric Water Heater	Thermostat setting	Cl.12, 12.1 of IS 2082: 2018
70.	Stationary Storage Type Electric Water Heater	Verification of the rated capacity	Cl.14, 14.1 of IS 2082: 2018

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262 of 273



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Transmission Line Equipment &amp; Accessories</b>		
1.	Aluminium Conductor for Overhead Transmission Purpose	Resistance Test	IS 398 (P-4): 1994, (RA 2021)
2.	Aluminium conductor Galvanized Steel Reinforced	Breaking Load on individual Aluminium & Steel Wire	IS 398 (P-2): 1996, (RA 2018)
3.	Aluminium conductor Galvanized Steel Reinforced	Elongation Test	IS 398 (Part 2): 1996, (RA 2018)
4.	Aluminium conductor Galvanized Steel Reinforced	Galvanizing Test on Steel Wire	IS 398 (P-2): 1996, (RA 2018)
5.	Aluminium conductor Galvanized Steel Reinforced	Lay Ratio Test	IS 398 (Part 2): 1996, RA 2018
6.	Aluminium conductor Galvanized Steel Reinforced	Torsion Test	IS 398 (P-2): 1996, (RA 2018)
7.	Aluminium conductor Galvanized Steel Reinforced	Wrapping Test on Aluminium Wire and Galvanized Steel Wire	IS 398 (P-2): 1996, (RA 2018)
8.	Aluminium conductor Galvanized Steel Reinforced	Diameter of Aluminium and Steel Wire	IS 398 (P-2): 1996, (RA 2018)
9.	Aluminium conductor Galvanized Steel Reinforced	Resistance Test of Aluminium Wire	IS 398 (P-2): 1996, (RA 2018)

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263 of 273

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	<b>Transmission Line Equipment &amp; Accessories</b>		
10.	Aluminium Conductor for Overhead Transmission Purpose	Breaking Load Test	IS 398 (P-4): 1994, (RA 2021)
11.	Aluminium Conductor for Overhead Transmission Purpose	Elongation Test	IS 398 (P-4): 1994, (RA 2021)
12.	Aluminium Conductor for Overhead Transmission Purpose	Freedom From Defects	IS 398 (P-2): 1996 (RA 2018)
13.	Aluminium Conductor for Overhead Transmission Purpose	Lay Ratio Test	IS 398 (Part 4): 1994, (RA 2021)
14.	Aluminium Conductor for Overhead Transmission Purpose	Diameter of Aluminium Wire and Stranded Conductor	IS 398 (P-4): 1994, (RA 2021)
15.	Aluminium conductor Galvanized Steel Reinforced	Freedom From Defects	IS 398 (P-4): 1994, (RA 2021)
16.	Covered conductors for overhead lines Cable	Compatibility Test	EN 50397-1: 2006

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264 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
17.	Covered conductors for overhead lines Cable	Conductor Resistance Test / Resistance of Conductors	EN 50397-1: 2006
18.	Covered conductors for overhead lines Cable	Durability & Legibility	EN 50397-1: 2006
19.	Covered conductors for overhead lines Cable	High Voltage Test	EN 50397-1: 2006
20.	Covered conductors for overhead lines Cable	Hot Set Test	EN 50397-1: 2006
21.	Covered conductors for overhead lines Cable	Tensile Strength	EN 50397-1: 2006
22.	Covered conductors for overhead lines Cable	Shrinkage Test	EN 50397-1: 2006
23.	Covered conductors for overhead lines Cable	Tensile Strength after ageing	EN 50397-1: 2006
24.	Covered conductors for overhead lines Cable	Elongation before ageing	EN 50397-1: 2006
25.	Covered conductors for overhead lines Cable	Water Absorption (Gravimetric)	EN 50397-1: 2006

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265 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
26.	Aluminium conductor for overhead transmission Purposes	Freedom from defects test	Cl. 6 of IS 398 1996 (Part – 1) (RA 2018)
27.	Aluminium conductor for overhead transmission Purposes	Breaking Load Test	IS 398(P-1) 1996 Cl. 12.3 (RA 2018)
28.	Aluminium conductor for overhead transmission Purposes	Measurement of Diameter of Individual Aluminum Wires	IS 398(P-1) 1996 Cl. 12.2 (RA 2018)
29.	Aluminium conductor for overhead transmission Purposes	Resistance Test	IS 398(P-1) 1996 Cl. 12.5 (RA 2018)
30.	Aluminium conductor for overhead transmission Purposes	Lay Ratio	IS 398 (P-3) 1976 Cl. 2.4 (RA 2019)

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[www.qai.org.in](http://www.qai.org.in)



266 of 273

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## Centre for International Accreditation

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
31.	Aluminium conductor for overhead transmission Purposes	Breaking Load Test	IS 398 (P-3) 1976 Cl. 12.2 (RA 2019)
32.	Aluminium conductor for overhead transmission Purposes	Ductility Test	IS 398 (P-3) 1976 (RA 2019) Cl. 12.3
33.	Aluminium conductor for overhead transmission Purposes	Torsion Test	IS 398 (P-3) 1976 (RA 2019) Cl. 12.3.1
34.	Aluminium conductor for overhead transmission Purposes	Elongation Test	IS 398 (P-3) 1976 (RA 2019) Cl. 12.3.2
35.	Aluminium conductor for overhead transmission Purposes	Wrapping Test	IS 398 (P-3) 1976 (RA 2019) Cl. 12.4

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[www.qai.org.in](http://www.qai.org.in)



267 of 273



# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



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(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
36.	Aluminium conductor for overhead transmission Purposes	Visual Examination	IS 398 (P-3) 1976 (RA 2019)
37.	Aluminium conductor for overhead transmission Purposes	Aluminizing test	IS 398 (P-3) 1976 (RA 2019)
38.	Aluminium conductor for overhead transmission Purposes	Visual examination	IS 398 (Part-5) 1992 (RA 018) Cl.13.2
39.	Aluminium conductor for overhead transmission Purposes	Measurement of diameters of individual aluminum and steel wires	IS 398 (Part-5) 1992 (RA 2018) Cl.13.3
40.	Aluminium conductor for overhead transmission Purposes	Measurement of lay ratio of each layer	IS 398 (Part-5) 1992 (RA 2018) Cl.13.4

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268 of 273

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Scope of Accreditation

**Indian Testing Laboratory Private Limited**

(Formerly Indian Testing Laboratory)

Plot No. 248, Udyog Kendra-II, Ecotech-III, Greater Noida

Gautam Budh Nagar-201306, Uttar Pradesh, India

QAI/CIA/TL/2024/0075

Valid from: 11 September 2024

Scope Extended w.e.f.: 29 October 2024

(Name change w.e.f.: 09 April 2025)

Valid until: 10 September 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Transmission Line Equipment &amp; Accessories</b>		
41.	Aluminium conductor for overhead transmission Purposes	Breaking load test	IS 398 (Part-5) 1992 (RA 2018) Cl.13.5
42.	Aluminium conductor for overhead transmission Purposes	Ductility test	IS 398 (Part-5) 1992 (RA 2018) Cl.13.6
43.	Aluminium conductor for overhead transmission Purposes	Wrapping test	IS 398 (Part-5) 1992 (RA 2018) Cl.13.7
44.	Aluminium conductor for overhead transmission Purposes	Resistance test	IS 398 (Part-5) 1992 (RA 2018) Cl.13.8
45.	Aluminium conductor for overhead transmission Purposes	Galvanizing test	IS 398 (Part-5) 1992 (RA 2018) Cl.13.9

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269 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
46.	Aluminium conductor for overhead transmission Purposes	Breaking Load test	IS 398 (Part 6) 2021 Cl.16.5
47.	Aluminium conductor for overhead transmission Purposes	Elongation Test	IS 398 (Part 6) 2021 Cl.16.6
48.	Aluminium conductor for overhead transmission Purposes	Visual Examination	IS 398 (Part 6) 2021 Cl.16.2
49.	Aluminium conductor for overhead transmission Purposes	Measurement of Lay Ratio/Direction of Lay	IS 398 (Part 6) 2021 Cl.16.3
50.	Aluminium conductor for overhead transmission Purposes	Measurement of Diameter of Individual Aluminum Alloy wire	IS 398 (Part 6) 2021 Cl.16.4

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270 of 273

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment & Accessories		
51.	Aluminium conductor for overhead transmission Purposes	Wrapping Test	IS 398 (Part 6) 2021 Cl.16.8
52.	Aluminium conductor for overhead transmission Purposes	Wrapping Test	IS 398 (Part 6) 2021 Cl.16.8
53.	Aluminium conductor for overhead transmission Purposes	Resistivity Test	IS 398 (Part 6) 2021 Cl.16.7

**Note:** Following scope of accreditation is extended w.e.f. **29 October 2024:**

#### Mechanical Testing-

Building, Infrastructure & Construction Materials (Serial No. 19-306, Page no. 2-31);

Mechanical Properties of Metals (Serial No. 4-289, Page no. 32-55);

Plastics & Plastic Products (Serial No. 12-303, Page no. 57-88);

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271 of 273

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Performance/Durability/ Safety Test (Serial No. 1-65, Page no. 89-96);

Wood & Wood Products (Serial No. 1-122, Page no. 97-106);

Rubber & Rubber Products (Serial No. 1-44, Page no. 107-112);

Soil & Rock (Serial No. 1-42, Page no. 113-116)

### Non-Destructive Testing-

Building Materials - Reinforced Concrete Structures (Serial No. 1-9, Page no. 117);

Metal & Alloys (Serial No. 1-2, Page no. 118)

### Chemical Testing-

Paints & Surface Coating (Serial No. 1-73, Page no. 119-125);

Soil & Rock (Serial No. 1-5, Page no.126);

Metals & Alloys (Serial No. 1-84, Page no. 127-134);

Pollution and Environment (Serial No.1-10, Page no. 135);

Water (Serial No. 1-39, Page no. 136-138);

Building Material (Serial No. 1-69, Page no. 139-145);

Corrosion Test (Serial No.1, Page no.146);

Metallic coatings & treatment solutions (Serial No. 1-4, Page no. 147);

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272 of 273



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Plastic & Resin (Serial No. 1-44, Page no. 148-152);

## **Electrical Testing-**

Cables & Wires (Serial No.1-500, Page no.154-232);

Wiring Accessories (Serial No.1-116, Page no.233-252);

Domestic Electrical Appliances (Serial No.1-70, Page no.253-262);

Transmission Line Equipment & Accessories (Serial No.1-53, Page no.263-271)

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273 of 273