

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **AJEO Testing Labs Private Limited**

13A/08 Site-2, Loni Road, Mohan Nagar,  
Ghaziabad-201007, 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/2024/0037**

Valid from: 02 February 2024

Valid until: 01 February 2026

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

**Prof. Vikram Kumar**  
Chair, CIA



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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
1.	Waste Water	Faecal Coliform	IS 1622:1981

Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water	Total Coliform	IS 15185: 2016
2.	Drinking Water	E. Coli	IS 15185: 2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
1.	Coarse Aggregates	Alkali Aggregate Reactivity (Soluble Silica)	IS2386 (Part-VII): 1963
2.		Chlorides	IS 14959 (Part-1): 2001
3.		Sulphate	BS 1881 (Part-124): 2015
4.		Sulphate	IS 4032: 1985
5.		Alkali Aggregate Reactivity (Reduction in Alkalinity)	IS 2386 (Part-VII): 1963
6.		Chloride	IS 14959 (Part-1): 2001
7.	Fine Aggregates	Alkali Aggregate Reactivity (Soluble Silica)	IS 2386 (Part-VII): 1963
8.		Chlorides	IS 14959 (Part-1): 2001
9.		Sulphate	BS 1881 (Part-124): 2015
10.		Sulphate	IS 4032: 1985
11.		Alkali Aggregate Reactivity (Reduction in Alkalinity)	IS 2386 (Part-VII): 1963
12.	Cement (OPC, PPC)	Alumina (Al <sub>2</sub> O <sub>3</sub> )	IS 4032: 1985
13.		Chlorides (Cl)	IS 4032: 1985
14.		Insoluble Residue (IR)	IS 4032: 1985
15.		Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	IS 4032: 1985
16.		Lime (CaO)	IS 4032: 1985
17.		Magnesia (MgO)	IS 4032: 1985

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
18.		Potassium oxide (K <sub>2</sub> O)	IS 4032: 1985
19.		Sodium oxide (Na <sub>2</sub> O)	IS 4032: 1985
20.	Cement (OPC, PPC)	Sulphuric Anhydride (SO <sub>3</sub> )	IS 4032: 1985
21.		Loss on Ignition	IS 4032: 1985
22.		Silica	IS 4032: 1985
23.		Fresh & Hardened Concrete	Sulphate
24.		Sulphate	BS 1881 (Part-124): 1988
25.	Fresh Mortar & Concrete	Water & Acid Soluble Concrete	IS 14959 (Part-1): 2001
26.		Water & Acid Soluble Chloride	IS 14959 (Part-2): 2001
27.	Admixture	Ash Content	IS 9103: 1999
28.		Chloride Content	IS 6925: 1973
29.		Dry Material Content	IS 9103: 1999
30.		pH Value	IS 9103: 1999
31.		Relative Density	IS 9103: 1999
32.		Sulphate	IS 4032: 1985
33.	Fly ash	Alumina (Al <sub>2</sub> O <sub>3</sub> )	IS 1727: 1967
34.		Available Alkali (Na <sub>2</sub> O)	IS 3812 (Part-1) (Annex-C): 2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
35.		Chlorides (Cl)	IS 4032: 1985
36.		Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	IS 1727: 1967
37.		Lime (CaO)	IS 1727: 1967
38.		Loss on Ignition (LOI)	IS 1727: 1967
39.		Magnesia (MgO)	IS 1727: 1967
40.	Fly ash	Potash (K <sub>2</sub> O)	IS 1727: 1967
41.		Silica (SiO <sub>2</sub> )	IS 1727: 1967
42.		Soda (Na <sub>2</sub> O)	IS 1727: 1967
43.		Sulphuric Anhydride (SO <sub>3</sub> )	IS 1727: 1967
44.		Free Lime	IS 2547 (Part-1): 1976
45.	Gypsum	Lime (Cao)	IS 1288: 1982
46.		Loss on Ignition (LOI)	IS 2547 (Part-1): 1976
47.		Soluble Magnesium Salts (MgO)	IS 2547 (Part-1): 1976
48.		Sodium Salts (Na <sub>2</sub> O)	IS 2547 (Part-1): 1976
49.		Sulphates (So <sub>3</sub> )	IS 1288: 1982
50.	Micro silica, Silica Fumes	Available Alkali (Na <sub>2</sub> O)	IS 3812 (Part-1): 2013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
51.		Available Alkali (Na <sub>2</sub> O)	ASTM C311: 2011
52.		Loss on Ignition (LOI)	ASTM C311: 2011
53.	Micro silica	Loss on Ignition (LOI)	IS 1727: 1967
54.		Moisture	IS 15388: 2003
55.	Micro silica	Moisture	ASTM C311: 2011
56.		Silica (SiO <sub>2</sub> )	ASTM C311: 2011
57.		Silica (SiO <sub>2</sub> )	IS 1727: 1967
58.		Carbon	IS 228 (Part-1): 1987
59.	Alloy Steel	Chromium	IS 228 (Part-6): 1987
60.		Copper	IS 228 (Part-15): 1992
61.		Manganese	IS 228 (Part-2): 1987
62.		Molybdenum	IS 228 (Part-7): 1990
63.		Nickel	IS 228 (Part-5): 1987
64.		Phosphorus	IS 228 (Part-3): 1987
65.		Silicon	IS 228 (Part-8): 1989
66.		Sulphur	IS 228 (Part-9): 1989

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Material</b>		
67.	Carbon Steel	Carbon	IS 228 (Part-1): 1987
68.		Manganese	IS 228 (Part-2): 1987
69.		Molybdenum	IS 228 (Part-7): 1990
70.		Phosphorous	IS 228 (Part-3): 1987
71.		Silicon	IS 228 (Part-8): 1989
72.		Sulphur	IS 228 (Part-9): 1989
73.	Ferrous & Non-Ferrous metals	Thickness of Anodic Coating	IS 5523: 1983
74.		Thickness of Chrome Plating	IS 3203: 1982
75.		Thickness of Nickel Plating	IS 3203: 1982
76.	Steel Products	Adhesion of coating (knife Test)	IS 2629: 1985
77.		Mass of Zinc Coating	IS 6745: 1972
78.		Uniformity of Zinc Coating	IS 2633: 1986
79.	Stainless Steel	Carbon	IS 228 (Part-1): 1987
80.		Chromium	IS 228 (Part-6): 1987
81.		Manganese	IS 228 (Part-2): 1987
82.		Molybdenum	IS 228 (Part-7): 1990

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
83.		Nickel	IS 228 (Part-5): 1987
84.		Phosphorus	IS 228 (Part-3): 1987
85.		Silicon	IS 228 (Part-8): 1989
86.		Sulphur	IS 228 (Part-9): 1989



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Pollution &amp; Environment</b>		
1.	Waste Water	COD	IS 3025 (Part-58): 2023
2.		BOD	IS 3025 (Part-44): 2023
3.		DO	IS 3025 (Part-38): 1989
4.		Oil and grease	IS 3025 (Part-39): 2021
5.		TSS	IS 3025 (Part-17): 2022
6.		Phosphate	IS 3025 (Part-31): 1988
7.		Ammonia as N	IS 3025 (Part-34): 1988
8.		Total Nitrogen	IS 3025 (Part-34): 1988

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Water For Construction	Sodium	IS 3025 (Part-45): 1993
2.		Acidity	IS 3025 (Part-22): 1986
3.		Alkalinity	IS 3025 (Part-23): 2023
4.		Chloride as cl	IS 3025 (Part-32): 1988
5.		Inorganic Solids	IS 3025 (Part-18): 2022
6.		Organic Solids	IS 3025 (Part-18): 2022
7.		pH Value	IS 3025 (Part-11): 2022
8.		Potassium	IS 3025 (Part-45): 1993
9.		Sulphate as SO <sub>3</sub>	IS 3025(Part-24): 1986
10.		Total Suspended Matter	IS 3025 (Part-17): 2022
11.	Drinking Water	Calcium as Ca	IS 3025 (Part-40): 1991
12.		Chloride	IS 3025 (Part-32): 1988
13.		Colour	IS 3025 (Part-4): 2021
14.		Fluoride	IS 3025 (Part-60): 2008/ APHA 4500 F
15.		Free residual chlorine	IS 3025 (Part-26): 2021
16.		Hexavalent Chromium (as Cr+6)	IS 3025 (Part-52): 2003
17.		Iron	IS 3025 (Part-53): 2003

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
18.	Drinking Water	Magnesium as Mg	IS 3025 (Part-46): 2023
19.		Odor	IS 3025 (Part-5): 2018
20.		pH Value	IS 3025 (Part-11): 2022
21.		Potassium	IS 3025 (Part-45): 1993
22.		Silica as SiO <sub>2</sub>	IS 3025 (Part-35): 1988
23.		Sodium	IS 3025 (Part-45): 1993
24.		Sulphate as SO <sub>4</sub>	IS 3025 (Part-24): 1986
25.		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part-23): 2023
26.		Total Dissolve Solid (TDS)	IS 3025 (Part-16): 2023
27.		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part-21): 2009
28.		Turbidity	IS 3025 (Part-10): 2023
29.		Nitrate as NO <sub>3</sub>	IS 3025 (Part-34): 1988/ APHA 4500 NO <sub>3</sub>
30.		Ammonia as NH <sub>3</sub>	IS 3025 (Part-34): 1988

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
1.	Copper & Its Alloys	Copper	IS 440 : 1964
		Bismuth	IS 440 : 1964
		Lead	IS 440 : 1964
		Oxygen	IS 440 : 1964
2.	Aluminium & Its Alloys	Magnesium	IS 504 : Part 6 : 2002
		Silicon	IS 504 : Part 1 : 2002
		Iron	IS 504 : Part 2 : 2002
		Copper	IS 504 : Part 3 : 2002
		Manganese	IS 504 : Part 5 : 2002
		Zinc	IS 504 : Part 4 : 2002
		Titanium	IS 504 : Part 11 : 2002
		Chromium	IS 504 : Part 8 : 2002
		Vanadium	IS 504 : Part 12 : 2002
Nitrogen	IS 228 : Part 19 : 1998		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
1.	Coarse Aggregate	Bulk Density	IS 2386 (Part-3): 1963
2.		Clay Lumps	IS 2386 (Part-2): 1963
3.		Coal & Lignite	IS 2386 (Part-2): 1963
4.		Combined Flakiness & Elongation Index	IS 2386 (Part-1): 1963
5.		Crushing Value	IS 2386 (Part-4): 1963
6.		Deleterious Material Finer than 75 Micron	IS 2386 (Part-1): 1963
7.		Aggregate Impact Value	IS 2386 (Part-4): 1963
8.		Los Angeles Abrasion Value	IS 2386 (Part-4): 1963
9.		Sieve Analysis 80.0 mm, 63.0 mm, 40 mm, 20.0 mm, 16.0 mm, 12.5 mm, 10.0 mm, 4.75 mm, 2.36 mm	IS 2386 (Part-1): 1963
10.		Soundness	IS 2386 (Part-5): 1963
11.		Specific Gravity	IS 2386 (Part-3): 1963
12.		Water Absorption	IS 2386 (Part-3): 1963
13.	Fine Aggregate	Bulk Density	IS 2386 (Part-3): 1963
14.		Clay Lumps	IS 2386 (Part 2): 1963

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
15.		Coal and Lignite	IS 2386 (Part 2): 1963
16.		Material Finer than 75 microns	IS 2386 (Part 1): 1963
17.		Organic Impurities	IS 2386 (Part 2): 1963
18.	Fine Aggregate	Sieve Analysis (10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 0.600 mm, 0.300 mm, 0.150 mm)	IS 2386 (Part 1): 1963
19.		Soundness	IS 2386 (Part 5): 1963
20.		Specific Gravity	IS 2386 (Part 3): 1963
21.		Water Absorption	IS 2386 (Part 3): 1963
22.		Fineness by Blaine's Air Permeability	IS 1727: 1967
23.		Particle retained on 45 microns	IS 1727: 1967
24.	Fly ash	Specific Gravity	IS 1727: 1967
25.		Lime Reactivity - Average Compressive Strength	IS 1727: 1967
26.		Compressive Strength at 28 days	IS 1727: 1967
27.	Micro Silica	Particle retained on 45 microns	IS1727: 1967

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
28.		Specific Gravity	IS 1727: 1967
29.	Gypsum	Normal Consistency	IS 2542 (Part-1/Sec-1): 2023
30.		Setting Time (Plaster Sand Mixture)	IS 2542 (Part-1/S-3): 2023
31.	Gypsum	Setting Time (Neat Plaster)	IS 2542 (Part-1/S-3): 2023
32.		Transverse Strength	IS 2542 (Part-1/S-4): 2023
33.		Soundness	IS 2542 (Part-1/S-6): 2023
34.		Mechanical Resistance of Set Neat Plaster	IS 2542 (Part-1/S-7): 2023
35.		Residue on 150 µm Sieve	IS 2542 (Part-1/S-8): 2023
36.		Expansion on setting	IS 2542 (Part-1/S-9): 2023
37.		Cement - PPC	Consistency
38.	Density		IS 4031 (Part-11): 1988
39.	Initial Setting Time		IS 4031 (Part-5): 1988
40.	Final Setting Time		IS 4031 (Part-5): 1988
41.	Fineness (Blaine Air Permeability)		IS 4031 (Part-2): 1999
42.	Fineness (Dry Sieve Method)		IS 4031 (Part-1): 1996

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
43.		Soundness (Le-Chatelier Method)	IS 4031 (Part-3): 1988
44.		Soundness (By autoclave)	IS 4031 (Part-3): 1988
45.		Compressive Strength (672 Hours)	IS 4031 (Part-6): 1988
46.		Compressive Strength (168 Hours)	IS 4031 (Part-6): 1988
47.	Cement - PPC	Compressive Strength (72 hours)	IS 4031 (Part-6): 1988
48.		Drying Shrinkage	IS 4031 (Part-10): 1988
49.	Cement - OPC	Consistency	IS 4031 (Part-4): 1988
50.		Density	IS 4031 (Part-11): 1988
51.		Initial Setting Time	IS 4031 (Part-5): 1988
52.		Final Setting Time	IS 4031 (Part-5): 1988
53.		Fineness (Blaine's Air Permeability)	IS 4031 (Part-2): 1999
54.		Fineness (Dry Sieve Method)	IS 4031 (Part-1): 1996
55.		Soundness (Le-Chatelier Method)	IS 4031 (Part-3): 1988
56.		Soundness (By autoclave)	IS 4031 (Part-3): 1988
57.		Compressive Strength (672 Hours)	IS 4031 (Part-6): 1988

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
58.		Compressive Strength (168 Hours)	IS 4031 (Part-6): 1988
59.		Compressive Strength (72 Hours)	IS 4031 (Part-6):1988
60.	Admixture	Water Content Percent of control Sample	IS 9103: 1999
61.		Slump	IS 1199 (Part-2): 2018
62.		Time of setting Allowable deviation from control sample hours (INITIAL)	IS 1199 (Part-7): 2018
63.		Time of setting Allowable deviation from control sample hours (FINAL)	IS 1199 (Part-7): 2018
64.	Admixture	Minimum Compressive Strength at 1 Day	IS 516 (Part-1)/Sec-1: 2021
65.		Minimum Compressive Strength at 3 Days	IS 516 (Part-1)/Sec-1: 2021
66.		Minimum Compressive Strength at 7 Days	IS 516 (Part-1)/Sec-1: 2021
67.		Minimum Compressive Strength at 28 Days	IS 516 (Part-1)/Sec-1: 2021
68.		Minimum Compressive Strength at 6 Months	IS 516 (Part-1)/Sec-1: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
69.		Minimum Compressive Strength at 1 Year	IS 516 (Part-1)/Sec-1: 2021
70.		Flexural Strength % of Control Sample 3 Days	IS 516 (Part-1)/Sec-1: 2021
71.		Flexural Strength % of Control Sample 7 Days	IS 516 (Part-1)/Sec-1: 2021
72.		Flexural Strength % of Control Sample 28 Days	IS 516 (Part-1)/Sec-1: 2021
73.		Length Change % Increase over control Sample	IS 516 (Part-6): 2020
74.		Bleeding Percent increase over percent sample of concrete	IS 9103: 1999 (Annexure - D)
75.		Loss of Workability on standing	IS 9103: 1999
76.	Admixture	Air Content, %, Max, Over Control Sample	IS 1199 (Part-4): 2018
77.		Flow	IS 1199 (Part-6): 2018
78.	Use of Construction Water	Average Compressive Strength at 28 days, Over Control sample	IS 516 (Part-1)/Sec-1: 2021
79.		Initial Setting Time, Changes over Control sample	IS 4031 (Part-5): 1988
80.	Ceramic Tiles	Length	IS 13630 (Part-1): 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
81.		Width	IS 13630 (Part-1): 2019
82.		Thickness	IS 13630 (Part-1): 2019
83.		Straightness of Side	IS 13630 (Part-1): 2019
84.		Surface Flatness	IS 13630 (Part-1): 2019
85.		Centre Curvature	IS 13630 (Part-1): 2019
86.		Edge Curvature	IS 13630 (Part-1): 2019
87.		Warpage	IS 13630 (Part-1): 2019
88.		Rectangularity	IS 13630 (Part-1): 2019
89.		Surface Quality	IS 13630 (Part-1): 2019
90.		Scratch Hardness of Surface	IS 13630 (Part-13): 2019
91.	Ceramic Tiles	Water Absorption	IS 13630 (Part-2): 2019
92.		Crazing Resistance	IS 13630 (Part-2): 2019
93.		Bulk Density	IS 13630 (Part-2): 2019
94.		Resistance to Household Chemicals	IS 13630 (Part-8): 2019
95.		Resistance to Staining	IS 13630 (Part-8): 2019
96.		Modulus of rupture	IS 13630 (Part-6): 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
97.		Breaking Strength	IS 13630 (Part-6): 2019
98.	Chequered Cement Concrete Tiles	Dimension-Length	IS 13801: 2013
99.		Dimension- Width	IS 13801: 2013
100.		Dimension- Thickness	IS 13801: 2013
101.		Flatness of the Surface	IS 13801: 2013
102.		Perpendicularity	IS 13801: 2013
103.		Straightness	IS 13801: 2013
104.		Thickness of wearing layer	IS 13801: 2013
105.		Water Absorption %	IS 13801: 2013
106.		Wet Transverse Strength	IS 13801: 2013
107.		Resistance to Wear	IS 13801: 2013
108.		Dimension-Length	IS 1237: 2012
109.	Cement Concrete Flooring Tiles	Dimension- Width	IS 1237: 2012
110.		Dimension- Thickness	IS 1237: 2012
111.		Flatness of the Surface	IS 1237: 2012
112.		Perpendicularity	IS 1237: 2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
113.		Straightness	IS 1237: 2012
114.		Thickness of wearing layer	IS 1237: 2012
115.		Water Absorption %	IS 1237: 2012
116.		Wet Transverse Strength	IS 1237: 2012
117.		Resistance - Wear	IS 1237: 2012
118.		Stone (Granite, Kota, Marble)	Density
119.	Moisture Content		IS 13030: 1991
120.	Apparent Specific Gravity		IS 1124: 1974
121.	True Specific Gravity		IS 1122: 1974
122.	Water Absorption		IS 1124: 1974
123.	Apparent Porosity		IS 1124: 1974
124.	Hardness (Moh's Scale)		IS 13630 (Part-13): 2019
125.	Stone (Granite)		Dimension (Length)
126.		Dimension (Width)	IS 14223(Part-1): 1995
127.		Dimension (Thickness)	IS 14223 (Part-1): 1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
128.	Stone (Marble)	Dimension (Length)	IS 1130: 1969
129.		Dimension (Width)	IS 1130: 1969
130.		Dimension (Thickness)	IS 1130: 1969
131.	Flush Door - (Solid Core Type)	Thickness	IS 4020 (Part-2): 1998
132.		Width	IS 4020 (Part-2): 1998
133.		Height	IS 4020 (Part-2): 1998
134.		Twist	IS 4020 (Part-3): 1998
135.		Cupping	IS 4020 (Part-3): 1998
136.		Wrapping	IS 4020 (Part-3): 1998
137.		Local Planeness Test	IS 4020 (Part-4): 1998
138.		Impact Indentation Test	IS 4020 (Part-5): 1998
139.		Impact Indentation Test (Depth of Indentation)	IS 4020 (Part-5): 1998
140.		Shock Resistance Test	IS 4020 (Part-8): 1998
141.		Flexure Test (Residual Deflection)	IS 4020 (Part-6): 1998
142.	Flush Door - (Solid Core Type)	Flexure Test (Deflection at Maximum load)	IS 4020 (Part-6): 1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
143.		Edge loading Test (Residual Deflection)	IS 4020 (Part-7): 1998
144.		Edge loading Test (Deflection of the edge at maximum load)	IS 4020 (Part-7): 1998
145.		Buckling Resistance Test	IS 4020 (Part-9): 1998
146.		Buckling Resistance Test (Residual Deformation)	IS 4020 (Part-9): 1998
147.		Buckling Resistance Testm (initial deflection)	IS 4020 (Part-9): 1998
148.		Slamming Test	IS 4020 (Part-10): 1998
149.		Misuse Test	IS 4020 (Part-11): 1998
150.		End Immersion Test	IS 4020 (Part-13): 1998
151.		Knife Test	IS 4020 (Part -14): 1998
152.		Glue Adhesion Test	IS 4020 (Part -15): 1998
153.		Screw Withdrawal Strength	IS 4020 (Part-16): 1998
154.		Classification	IS 15477: 2019
155.	Adhesives for use with Ceramic, Mosaic and Stone tiles	Tensile Adhesion Strength (Dry Condition)	IS 15477: 2019 Annex A
156.		Tensile Adhesion Strength (Wet Condition)	IS 15477: 2019 Annex A

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
157.	Adhesives for use with Ceramic, Mosaic and Stone tiles	Shear Adhesion Strength (Dry Condition)	IS 15477: 2019 Annex B
158.		Shear Adhesion Strength (Heat Ageing Condition)	IS 15477: 2019 Annex B
159.		Shear Adhesion Strength (Wet Condition)	IS 15477: 2019 Annex B
160.		Open Time	IS 15477: 2019 Annex C
161.		Adjustment Time	IS 15477: 2019 Annex D
162.		Slip - Required for Application only	IS 15477: 2019 Annex E
163.		Deformability Required for Vertical Application Only	IS 15477: 2019 Annex F
164.	Hollow and Solid Concrete Blocks	Classification	IS 2185 (Part-1): 2005
165.		General	IS 2185 (Part-1): 2005
166.		Nominal Dimensions - Length	IS 2185 (Part-1): 2005 (Annex B)
167.		Nominal Dimensions - Height	IS 2185 (Part-1): 2005 (Annex B)
168.		Nominal Dimensions- Width	IS 2185 (Part-1): 2005 (Annex B)
169.		Nominal Dimensions- thickness of the face shell	IS 2185 (Part-1): 2005

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
170.		Nominal Dimensions- thickness of the Web shell	IS 2185 (Part-1): 2005
171.		Block Density	IS 2185 (Part-1): 2005 Annex C
172.	Hollow and Solid Concrete Blocks	Compressive Strength	IS 2185 (Part-1): 2005 Annex D
173.		Water Absorption	IS 2185 (Part-1): 2005 Annex E
174.		Drying Shrinkage	IS 2185 (Part-1): 2005 Annex F
175.		Moisture Movement	IS 2185 (Part-1): 2005 Annex G
176.		Classification	IS 2185 (Part-2): 1983
177.	Hollow And Solid Light Weight Concrete Blocks	Surface Texture	IS 2185 (Part-2): 1983
178.		General	IS 2185 (Part-2): 1983
179.		Dimension- Length	IS 2185 (Part-2): 1983 Appendix A
180.		Dimension- Height	IS 2185 (Part-2): 1983 Appendix A
181.		Dimension- Width	IS 2185 (Part-2): 1983 Appendix A
182.		Nominal Dimensions-thickness of the face shell	IS 2185 (Part-2): 1983 Appendix A
183.		Nominal Dimensions-thickness of the Web shell	IS 2185 (Part-2): 1983 Appendix A
184.		Blocks with Special faces	IS 2185 (Part-2): 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
185.		Compressive Strength - Solid Blocks	IS 2185 (Part-2): 1983 Appendix C
186.		Compressive Strength - (Load bearing - Hollow)	IS 2185 (Part-2): 1983 Appendix C
187.		Compressive Strength - (Non-Load bearing - Hollow)	IS 2185 (Part-2): 1983 Appendix C
188.	Hollow And Solid Light Weight Concrete Blocks	Block Density	IS 2185 (Part-2): 1983 Appendix B
189.		Water Absorption	IS 2185 (Part-2): 1983 Appendix D
190.		Water Absorption	IS 2185 (Part-2): 1983 Appendix D
191.		Drying Shrinkage	IS 2185 (Part-2): 1983 Appendix E
192.		Moisture Movement	IS 2185 (Part-2): 1983 Appendix E
193.	Autoclave Cellular aerated concrete Blocks	Dimension -Length	IS 2185 (Part-3): 1984
194.		Dimension-Height	IS 2185 (Part-3): 1984
195.		Dimension-Width	IS 2185 (Part-3): 1984
196.		General (Exposed wall construction)	IS 2185 (Part-3): 1984
197.		Shape	IS 2185 (Part-3): 1984
198.		Faces & arises	IS 2185 (Part-3): 1984
199.		Special Faces	IS 2185 (Part-3): 1984

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
200.		Block density	IS 2185 (Part-3): 1984
201.		Moisture Content	IS 6441 (Part-1): 1972
202.		Compressive strength	IS 2185 (Part-3): 1984
203.		Drying Shrinkage	IS 6441 (Part-2): 1972
204.		Thermal Conductivity	IS 3346: 1980
205.		Fire Test (up - 1200 °C) (3 Mtr X 3Mtr X 1.2 Mtr)	ASTM E 119: 2018
206.	Autoclaved Reinforced Cellular Concrete Floor And Roof Slabs	Classification	IS 6073: 2006
207.		Designation	IS 6073: 2006
208.		Length	IS 2185 (Part-3): 1984
209.		Width	IS 2185 (Part-3): 1984
210.		Thickness	IS 2185 (Part-3): 1984
211.		Warp	IS 2185 (Part-3): 1984
212.		Torsion	IS 2185 (Part-3): 1984
213.		Edge Straightness	IS 2185 (Part-3): 1984
214.		Squareness of angle between adjacent faces	IS 2185 (Part-3): 1984

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
215.		Bulk Density	IS 6441 (Part-1): 1972
216.		Physical requirements- Compressive strength	IS 6441 (Part-5): 1972
217.		Drying Shrinkage	IS 6441 (Part-2): 1972
218.		Thermal Conductivity	IS 3346: 1980
219.		Fire Resistance, 2 h	IS 3809: 1979
220.	Pulverized Fuel Ash-Lime Bricks	General Requirement	IS 12894: 2002
221.		General Requirement-Without Frog	IS 12894: 2002
222.		General Requirement - With Frog	IS 12894: 2002
223.		Classification	IS 12894: 2002
224.		Dimensions -Length	IS 12894: 2002
225.		Width	IS 12894: 2002
226.		Height	IS 12894: 2002
227.		Average Wet Compressive Strength	IS 3495 (Part-1): 2019 (Annexure B)
228.	Drying Shrinkage	IS 4139: 1989	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
229.		Efflorescence	IS 3495 (Part-3): 2019
230.		Water Absorption	IS 3495 (Part-2): 2019
231.	Pulverized Fuel Ash-Cement Bricks- Specification	General Requirement- Without Frog	IS 16720: 2018
232.		Dimensions- Length (L)	IS 16720: 2018 fig.1A &1B
233.		Dimensions- Width (B)	IS 16720: 2018 fig.1A &1B
234.		Height (H) - Individual	IS 16720: 2018 fig.1A &1B
235.		Dimensions- Frog Depth	IS 16720: 2018 fig.1A &1B
236.		(Classification)	IS 16720: 2018 Table 1
237.		(General)	IS 16720: 2018
238.		Density	IS 2185 (Part-1): 2005 Annex C
239.	Pulverized Fuel Ash-Cement Bricks- Specification	Compressive Strength - Individual	IS 3495 (Part-1): 2019 (Annexure- B)
240.		Compressive Strength - Average Wet Compressive strength	IS 3495 (Part-1) 2019 (Annexure -B)
241.		Drying Shrinkage	IS 4139: 1989
242.		Water Absorption	IS 3495 (Part-2): 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
243.	Concrete Paving Blocks - Specification	Classification	IS 15658: 2021
244.		Bonding and Delamination between the layers of paver blocks	IS 15658: 2021
245.		(General Quality)	IS 15658: 2021
246.		(Visual Inspection)	IS 15658: 2021
247.		(Colour and Texture)	IS 15658: 2021
248.		(Width, W)	IS 15658: 2021 Annexure - B
249.		(Length, L)	IS 15658: 2021 Annexure - B
250.		Thickness, Th	IS 15658: 2021 Annexure - B
251.		Aspect Ratio, (L/Th)	IS 15658: 2021 Annexure - B
252.		Arris/Chamfer	IS 15658: 2021 Annexure - B
253.		Thickness of Wearing Layer	IS 15658: 2021 Annexure - B
254.		Plan Area, Asp	IS 15658: 2021 Annexure - B
255.		Wearing Area, Asw	IS 15658: 2021 Annexure - B
256.		Concrete Paving Blocks - Specification	Ratio of wearing and plan area
257.	Deviation from squareness		IS 15658: 2021 Annexure - B

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
258.		Individual Water absorption)	IS 15658: 2021 Annexure - C
259.		Water absorption (Average of three test specimens)	IS 15658: 2021 Annexure - C
260.		Individual Compressive strength	IS 15658: 2021 Annexure – D
261.		Compressive strength (Average of eight test specimens)	IS 15658: 2021 Annexure – D
262.		Individual Dry Abrasion Resistance	IS 15658: 2021 Annexure - E
263.		Dry Abrasion resistance (Average of three test specimens)	IS 15658: 2021 Annexure - E
264.		Individual Wet Abrasion Resistance	IS 15658: 2021 Annexure - E
265.		Wet Abrasion resistance (Average of three test specimens)	IS 15658: 2021 Annexure - E
266.		Individual Tensile splitting strength	IS 15658: 2021 Annexure – F
267.		Average Tensile splitting strength	IS 15658: 2021 Annexure – F
268.		Failure Load per unit length	IS 15658: 2021 Annexure - F
269.		Individual Flexural strength	IS 15658: 2021 Annexure – G

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
270.	Concrete Paving Blocks - Specification	Average Flexural strength	IS 15658: 2021 Annexure – G
271.		Breaking Load	IS 15658: 2021 Annexure - G
272.	Hardened Concrete Core	Compressive Strength	IS 516 (Part-4): 2018
273.	Hardened Concrete	Water Permeability coefficient (5 bar 4 cycles)	AS per CPWD Vol. 2
274.		Chloride migration coefficient	NT Built 492: 1999
275.		Chloride migration coefficient	SIA 262/1-B: 2013
276.		Carbonation Resistance	SIA 262-I
277.		Compressive Strength	IS 516 Part-1 (Sec-1): 2021
278.		Drying Shrinkage	IS 516 Part-6: 2020
279.		RCPT	ASTM C1202: 2019
280.		Water absorption	BS 1881 (Part-122): 1983
281.		Water Permeability (72 Hours) at 5 Bar	DIN 1048 (Part-5): 1991
282.		Water Permeability (72 Hours) at 5 Bar	EN 12390-8: 2000
283.		Water Permeability (72 Hours) at 5 Bar	IS 516 (Part-2 Sec-1): 2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
284.		Water permeability at 16 bar	AS per CPWD Vol. 2
285.	Cement Mortar Coating	Pull out	ASTM D 4541: 2022
286.	Water Proofing Coating	Pull out	ASTM D 4541: 2022
287.	APP Modified HMHDPE Bituminous water proofing and Damp proofing Membrane	Classification	IS 16540: 2017
288.		Dimension - Length	IS 16540: 2017
289.		Dimension - Width	IS 16540: 2017
290.		Dimension - Thickness	IS 16540: 2017
291.		Weight	IS 16540: 2017
292.		Softening Point	IS 1205: 2022
293.		Tensile Strength (Plain)	IS 13826 (Part-1): 1993
294.		Tensile Strength (Aluminium)	IS 13826 (Part-1): 1993
295.		Elongation (Plain)	IS 13826 (Part-1): 1993
296.		Elongation (Aluminium)	IS 13826 (Part-1): 1993
297.		Heat Resistance, 2 H at 100 °C	IS 13826 (Part-5): 1994
298.		Penetration, 25°C, 100 g, 5 S	IS 1203: 2022
299.	Water absorption	IS 13826 (Part-6): 1993	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
300.	High Density Polyethylene (HDPE) Geo membranes for Lining	Length	IS 7016 (Part-1): 1982
301.		Width	IS 7016 (Part-1): 1982
302.		Average Core Thickness	IS 16352: 2020
303.		Lowest Individual of 10 thickness	IS 16352: 2020
304.		Average Asperity Height	IS 16352: 2020
305.		Tensile Strength	IS 16352: 2020 (Annexure B)
306.		Breaking Strength	IS 16352: 2020 (Annexure B)
307.		Yield Elongation	IS 16352: 2020 (Annexure B)
308.		Breaking Elongation	IS 16352: 2020 (Annexure B)
309.		Tear Resistance	IS 16352: 2020 (Annexure C)
310.		Puncture Resistance	IS 16352: 2020 (Annexure D)
311.		Hydro-static Resistance, up to 20 Kg/cm <sup>2</sup>	IS 16352: 2020 (Annexure F)
312.		Seam Strength	IS 16352: 2020 (Annexure G)
313.		Carbon black content	IS 2530: 1963
314.	Carbon Black Dispersion	IS 2530: 1963	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
315.		Retention of breaking Strength after UV Exposure of 144 Hours	IS 16352: 2020 (Annexure H)
316.		Tensile Strength	ASTM D 412: 2016
317.	HDPE Membrane/ HDPE Liner/ Water proofing Membrane/Polymer products	Elongation	ASTM D 412: 2016
318.		Hardness (Shore A)	ASTM D 2240: 2015
319.		Hardness (Shore D)	ASTM D 2240: 2015
320.	HDPE Membrane/ HDPE Liner/ Water proofing Membrane/Polymer products	Melt Flow Index	ASTM D 1238: 2010
321.		Puncture Resistance	ASTM D 4883: 2018
322.	Fire Doors and Door Sets- Specification	Classification	IS 3614: 2021
323.		Size of Vision pane (glass)	IS 3614: 2021
324.		Types of Doors	IS 3614: 2021
325.		Fire Rating- Integrity	IS 17518 (Part-1):2022
326.		Fire Rating - Insulation	IS 17518 (Part-1):2022
327.		Types of fire rated hinged doors	IS 3614: 2021
328.		Types of fire rated hinged doors - Material	IS 3614: 2021
329.		Fire Doors and Door Sets Specification (Metallic)	Fire rated Hinged Doors (Metallic)- Width

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
330.	Fire Doors and Door Sets Specification (Metallic)	Fire rated Hinged Doors (Metallic) - Height	IS 3614: 2021
331.		Fire rated Hinged Doors (Metallic) total Area	IS 3614: 2021
332.		Fire rated Hinged Doors (Metallic) - Door Construction label	IS 3614: 2021
333.		Fire rated Hinged Doors (Metallic) - Fire Door frame Size (Profile Size- Width)	IS 3614: 2021
334.		Fire rated Hinged Doors (Metallic) - Fire Door frame Size (Profile Size- Height)	IS 3614: 2021
335.		Fire rated Hinged Doors (Metallic) - Fire Door frame (Depth)	IS 3614: 2021
336.		Fire rated Hinged Doors (Metallic) - Fire Door frame (Type)	IS 3614: 2021
337.		Fire rated Hinged Doors (Metallic) - Fire Door frame (Sheet Thickness)	IS 3614: 2021
338.		Fire rated Hinged Doors (Metallic) - Fire Door frame (Depth)	IS 3614: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
339.		Fire rated Hinged Doors (Metallic) - Door Leaf thickness	IS 3614: 2021
340.		Fire rated Hinged Doors (Metallic) - Door Leaf width	IS 3614: 2021
341.		Fire rated Hinged Doors (Metallic) - Door LEAF - Height	IS 3614: 2021
342.		Fire rated Hinged Doors (Metallic) - Door Leaf - Undercut	IS 3614: 2021
343.		Fire rated Hinged Doors (Metallic) - intumescent seal - Model	IS 3614: 2021
344.		Fire rated Hinged Doors (Metallic) - intumescent seal -Width	IS 3614: 2021
345.	Fire Doors and Door Sets Specification (Metallic)	Fire rated Hinged Doors (Metallic) - Builder's hardware - Other Hardwares Device -Make, Model & Type	IS 3614: 2021
346.		Fire rated Hinged Doors (Metallic) - Door Eye Viewer hole	IS 3614: 2021
347.	Fire Doors and Door Sets- Specification (Wooden Composite)	Fire rated Hinged Doors (Wooden Composite) - Material	IS 3614: 2021
348.		Fire rated Hinged Doors (Wooden Composite) – Moisture content	IS 11215: 1991

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Building, Infrastructure &amp; Construction Material</b>			
349.		Fire rated Hinged Doors (Wooden Composite) - Sizes - Width	IS 3614: 2021	
350.		Fire rated Hinged Doors (Wooden Composite) - Sizes - Height	IS 3614: 2021	
351.		Fire rated Hinged Doors (Wooden Composite) - Sizes - Total Area	IS 3614: 2021	
352.		Fire rated Hinged Doors (Wooden Composite) - Construction - Door frames rating certification	IS 3614: 2021	
353.		Fire rated Hinged Doors (Wooden Composite) - Intumescent Seal-Make & Model	IS 3614: 2021	
354.		Fire Doors and Door Sets-Specification (Wooden Composite)	Fire rated Hinged Doors (Wooden Composite) - Intumescent Seal-Width	IS 3614: 2021
355.			Fire rated Hinged Doors (Wooden Composite) - Intumescent Seal-Thick	IS 3614: 2021
356.		Fire Doors and Door Sets-Specification (Rolling Shutter - Metallic)	Fire rated Rolling shutters - Metallic - Type of shutter	IS 3614: 2021
357.			Fire rated Rolling shutters - Metallic - Size -Total Area	IS 3614: 2021
358.			Fire rated Rolling shutters - Metallic -Size - Width	IS 3614: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
359.	Fire Doors and Door Sets- Specification (Sliding Door)	Fire rated Rolling shutters - Metallic - Size-Height	IS 3614: 2021
360.		Fire rated Rolling shutters - Metallic - Rolling Shutter-thickness	IS 3614: 2021
361.		Fire rated Rolling shutters - Metallic - Rolling Shutter- inter-lock	IS 3614: 2021
362.		Fire rated Rolling shutters - Metallic - End Lock- Thickness	IS 3614: 2021
363.		Fire rated Rolling shutters - Metallic - General Requirements - Fire rating	IS 3614: 2021
364.		Fire rated Sliding Door (Metallic) - type	IS 3614: 2021
365.		Fire rated Sliding Door (Metallic) - Closing device	IS 3614: 2021
366.		Fire rated Sliding Door (Metallic) - Material	IS 3614: 2021
367.		Fire rated Sliding Door (Metallic) - Sizes -Total Area	IS 3614: 2021
368.		Fire rated Sliding Door (Metallic) - Sizes - Width	IS 3614: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
369.		Fire rated Sliding Door (Metallic) - Sizes - Height	IS 3614: 2021
370.		Fire rated Sliding Door (Metallic) - Individual panel weight	IS 3614: 2021
371.		General Retirements of Fire Doors - Fire rating	IS 3614: 2021
372.		General Retirements of Fire Doors - Smoke Seal	IS 3614: 2021
373.		Marking and Labelling	IS 3614: 2021
374.	Building Construction Materials	Fire Resistance Test	ASTM E 119: 2020
375.	Door & Windows	Fire Resistance Test	EN 1364-1: 2015
376.		Fire Resistance Test	BS 476-20: 1987
377.	Door & Windows	Fire Resistance Test - Non-Load Bearing Structures	BS 476- 22: 1987
378.		Fire Resistance Test	BS EN 1634-1: 2014
379.	Fire Resistance Test - Glazed Elements (Building Construction)	Fire Resistance Test	IS 3009: 2003
380.	Fire Resistance Test for Structures (Doors & Windows)	Fire Resistance Test	IS 3809: 1979

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
381.	Doors & Shutter	Fire Resistance - General Requirements	IS 17518 (Part-1): 2022
382.	Fire Resistance Test for Structures (Wall, Floor & ceiling panels)	Fire Resistance Test	IS 3809: 1979
383.	Wall, Floor and Ceiling Panels	Fire Resistance Test	EN 1364-1: 2015
384.		Fire Resistance Test	BS 476-20: 1987
385.		Fire Resistance Test -Non-Load Bearing Structures	BS 476- 22: 1987
386.		Fire Resistance Test	BS EN 1634-1: 2014
387.	Gypsum Board Products	Fire Resistance Test	IS 3809: 1979
388.		Fire Resistance Test	EN1364-1: 2015
389.		Fire Resistance Test	BS 476-20: 1987
390.		Fire Resistance Test -Non-Load Bearing Structures	BS 476- 22: 1987
391.	Gypsum Board Products	Fire Resistance Test	BS EN 1634-1: 2014
392.	Reinforcement Steel	Tensile Strength	IS 1608 (Part-1): 2022
393.		Elongation	IS 1608 (Part-1): 2022
394.		Yield stress	IS 1608 (Part-1): 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure &amp; Construction Material</b>		
395.		TS/YS Ratio	IS 1608 (Part-1): 2022
396.		Bend Test	IS 1786: 2008
397.		Re-bend Test	IS 1786: 2008
398.		Mass/meter	IS 1786: 2008
399.	Seven Ply Strand for pre-stressed Concrete (H.T.S. Wire)	Mass of strand	IS 14268: 2022
400.	Coupler	Tensile Strength	IS 1608 (Part-1): 2022
401.	Ferrous Materials, Alloys & Products	Elongation	EN 10002 (Part-1): 2001
402.		Nut – Proof Load	IS 1367 (Part-6): 2018
403.		Vicker Hardness (HV30)	IS 1501 (Part-1): 2020
404.		Bend Test	IS 1599: 2023
405.		Bend Test	API 1104:2017
406.		Bend Test	IS 277: 2018
407.		Bend Test	BS EN ISO 5173:2010
408.		Ferrous Materials, Alloys & Products	Bend Test
409.	Bend Test		ASME Section IX:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Material		
410.		Elongation	ASTM A 370: 2020
411.		Elongation	ASME SEC 2 C: 2017
412.		Flaring test (Drift expending test)	IS 2335: 2005
413.		Impact Charpy (v) (ambient - 196°C)	IS 1757 (Part-1):2014
414.		Macro Examination	ASME Sec IX: 2019
415.		Macro Examination	IS 12037: 2023
416.		Macro Examination	IS 7307 (Part-1): 1974
417.		Macro Examination	IS 11371: 2022
418.		Macro Examination	IS 7310 (Part-1): 2019
419.		Of set Proof Stress (0.2%, 0.5%)	IS 1608 (Part-1): 2022
420.		Rockwell Hardness Number (C Scale)	IS 1586 (Part-1): 2018
421.		Vicker Hardness (HV10)	ASTM E 92: 2017
422.		Vicker Hardness (HV5)	ASTM E 92: 2017
423.		Vicker Hardness (HV10)	BS EN ISO 9015-1: 2011
424.		Vicker Hardness (HV10)	ASTM E 384: 2017
425.		Vicker Hardness (HV10)	IS 1501 (Part-1): 2020

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Building, Infrastructure & Construction Material			
426.	Ferrous Materials, Alloys & Products	Vicker Hardness (HV30)	ASTM E 92: 2017	
427.		Vicker Hardness (HV5)	ASTM E 384: 2017	
428.		Vicker Hardness (HV30)	ASTM E 384: 2017	
429.		Vicker Hardness (HV5)	BS EN ISO 9015-1: 2011	
430.		Yield Stress	ASTM A 370: 2017	
431.		Yield Stress	IS 1608 (Part-1): 2022	
432.		VickerHardness-HV05	IS 1501 (Part-1): 2020	
433.		Elongation	IS 1608 (Part-1): 2022	
434.		Rockwell Hardness Number (B Scale)	ASTM E 18: 2020	
435.		Rockwell Hardness Number (C Scale)	ASTM E 18:2020	
436.		Rockwell Hardness Number (B Scale)	IS 1586 (Part-1): 2018	
437.		Brinell Hardness Test	IS 1500 (Part-1): 2019	
438.		Tensile Strength	IS 1608 (Part-1): 2022	
439.		Metallic materials Tube	Flattening test	IS 2328: 2018
440.			Flattening test	ASTM A530/530 M: 2012

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
1.	Hot Rolled Medium and High Tensile Structural Steel	Freedom From Defect	IS 2062:2011
2.		Y-Groove Crack ability (Grade E250 C, >12 mm)	IS 10842(P-1)2019
3.		Thickness	IS 2062:2011
4.		Width	IS 2062:2011
5.		Depth	IS 2062:2011
6.		Calculation Of Mass	IS 2062:2011
7.	Steel Tubes, Tubulars and Other Wrought Steel Fittings	Mass	IS 1239 (P-1) 2004
8.		Height of Internal Weld Fin	IS 1239 (P-1) 2004
9.		Outside diameter	IS 1239 (P-1) 2004
10.		Thickness	IS 1239 (P-1) 2004
11.		Bend Test	2329 - 2005
12.		Workmanship	IS 1239 (P-1) 2004
13.		Protection And Packing	IS 1239 (P-1) 2004
14.		Leak Proof Test	IS 1239 (P-1) 2004
15.	Hollow steel sections for structural use	Thickness	IS 4923 : 2017
16.		Depth	IS 4923 : 2017

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
17.		width	IS 4923 : 2017
18.		Weight	IS 4923 : 2017
19.		Concavity/Convexity	IS 4923 : 2017
20.		Squareness of Corner (at 90° Angle)	IS 4923 : 2017
21.	Hollow steel sections for structural use	External Corner Radius	IS 4923 : 2017
22.		Straightness	IS 4923 : 2017
23.		Twist	IS 4923 : 2017
24.		Oiling And Painting	IS 4923 : 2017
25.		Height of The Internal Weld Fin	IS 4923 : 2017
26.			Coating Adhesion Test
27.		Freedom From Defects	IS 15961: 2012
28.	Hot Dip Aluminium-Zinc Alloy Metallic Coated Steel Strip and Sheet (Plain)	Mass	IS 15961: 2012
29.		Length	IS 15961: 2012
30.		width	IS 15961: 2012
31.		Thickness	IS 15961: 2012
32.		Camber	IS 15961: 2012

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
33.		Deviation from squareness	IS 15961: 2012
34.		Deviation from flatness	IS 15961: 2012
35.		Freedom From Defects	IS 277 : 2018
36.		Mass	IS 277 : 2018
37.		Thickness	IS 277 : 2018
38.	Galvanized Steel Strips and Sheets (Plain & Corrugated)	Width	IS 277 : 2018
39.		Length	IS 277 : 2018
40.		Depth and pitch of the corrugations	IS 277 : 2018
41.		Number Of Corrugations	IS 277 : 2018
42.	Galvanized Steel Strips and Sheets (Cable Tray)	Depth	IS 277 : 2018
43.		Width	IS 277 : 2018
44.		Thickness	IS 277 : 2018
45.	Mild Steel Wire for General Engineering Purposes	Diameter	IS 280 : 2006
46.		Wrapping Test	IS 1755 : 2018
47.		Freedom From Defect	IS 280 : 2006
48.		Bend Test	IS 280 : 2006

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
49.	Steel Tubes for Structural Purposes	Freedom From Defect	IS 1161 : 2014
50.		Outer diameter	IS 1161 : 2014
51.		Thickness	IS 1161 : 2014
52.		Weight	IS 1161 : 2014
53.	Steel Tubes for Structural Purposes	Workmanship	IS 1161 : 2014
54.		Straightness	IS 1161 : 2014
55.		Bend Test	IS 2329 : 2005
56.		Oil & Painting	IS 1161 : 2014
57.	Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into steel for general structural purposes	Bend Test	IS 2830 : 2012
58.		Camber	IS 2830 : 2012
59.		Width	IS 2830 : 2012
60.		Freedom From Defect	IS 2830 : 2012
61.	Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into structural steel	Width	IS 2831: 2012
62.		Freedom From Defect	IS 2831: 2012
63.	Steel Pipes for Water and Sewage (168.3 to 2 540 mm Outside Diameter)	Guided Bend Test	IS 3589 : 2001
64.		Outside diameter	IS 3589 : 2001
65.		Thickness	IS 3589 : 2001

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
66.		Mass	IS 3589 : 2001
67.		Ovality	IS 3589 : 2001
68.		Visually Inspection	IS 3589 : 2001
69.		Straightness	IS 3589 : 2001
70.		Height of Weld Bead	IS 3589 : 2001
71.		Hydraulic Pressure Test	IS 3589 : 2001
72.	Copper Alloy Gate, Globe and Check Valves for Waterworks Purposes	Thickness	IS 778 : 1984
73.		Diameter	IS 778 : 1984
74.	Cast copper alloy screw down bib taps and stop valves for water services	Diameter	IS 781 : 1984
75.		Length	IS 781 : 1984
76.	Metallic Materials	Corrosion Test	IS 5528 : 2024
77.	Water Fittings - Copper Alloy Float Valves (Horizontal Plunger Type)	Thickness	IS 1703 : 2000
78.		Length	IS 1703 : 2000
79.	Sand cast iron spigot and socket pipes, fittings and accessories	Thickness	IS 1729 : 2023
80.		Length	IS 1729 : 2023
81.		Hammer Test	IS 1729 : 2023
82.		Leakage Test	IS 1729 : 2023

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Mechanical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metal</b>		
83.		Mass	IS 1729 : 2023
84.		Coating Test	IS 1729 : 2023
85.	Swing Check Type Reflux (Non-Return) Valves for Water Works Purposes	Thickness	IS 5312 (Part 1) : 2004
86.		Length	IS 5312 (Part 1) : 2004
87.		Hydrostatic Test	IS 5312 (Part 1) : 2004
88.	Landing Valves	Thickness	IS 5290 : 2025
89.		Length	IS 5290 : 2025
90.	Landing Valves	Diameter	IS 5290 : 2025
91.		Hydrostatic Test	IS 5290 : 2025
92.	ACP Sheet	Tensile Strength	ASTM E8 : 2022
93.		Yield Stress	ASTM E8 : 2022
94.		Elongation	ASTM E8 : 2022
95.		Thickness	ASTM E8 : 2022

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Non-Destructive Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Concrete		
1.	NDT Test	Ultrasonic Pulse Velocity Tests	IS 516 (Part-5/Sec-1): 2018
		Rebound Hammer Test	IS 516 (Part-5/Sec-4): 2020
		Carbonation test	IS 516 (Part-5/Sec-3): 2021
		Crack Depth measurement in reinforcement concrete structures	IS 516 (Part-5/Sec-1): 2018
		Half-Cell Potential	ASTM C 876: 2015
		Pile integrity Test	ASTM D 5882: 2016
		Cover Depth Test	IS 516 (Part-5/Sec-1): 2018



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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
1.	Aerial Bunched Cables for working voltages upto and including 1100V	Ageing in Air Oven on Insulation (Tensile strength Variation)	IS 14255:1995, IS:10810 (Part 11)-1984 RA: 2016
2.		Ageing in Air Oven on Insulation (Elongation Variation)	IS 14255:1995 RA: 2020, IS:10810 (Part 11)-1984
3.		Bending Test on complete cable	IS 14255:1995
4.		Breaking load on Messenger Conductor	IS 14255: 1995, IS:10810 (Part 2)-1984
5.		Wrapping Test (for Aluminium)	IS 14255: 1995, IS:10810 (Part 3)-1984
6.		Conductor Resistance Test on messenger conductor	IS 14255: 1995, IS:10810 (Part 5)-1984
7.		Elongation Test on Messenger Conductor	IS 14255:1995
8.		High Voltage Test at Room Temperature	IS 14255:1995
9.		Hot Set Test	IS 14255:1995, IS:10810 (Part 30)-1984
10.		Resistance Test on Phase/Messenger/Street Light Conductor	IS 14255:1995, IS:10810 (Part 5)-1984
11.		Shrinkage Test on Insulation	IS 14255:1995, IS:10810 (Part 12)-1984

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
12.		Tensile Strength on Insulation	IS 14255:1995, IS:10810 (Part 7)-1984
13.		Elongation at Break on Insulation	IS 14255:1995, IS:10810 (Part 7)-1984
14.	Aerial Bunched Cables for working voltages upto and including 1100V	Tensile Test on Phase/Street Light Conductor	IS 14255:1995, IS:10810 (Part 02)-1984
15.		Test for overall dimensions, & thickness of Insulation	IS 14255:1995, IS:10810 (Part 6)-1984
16.		Volume Resistivity	IS 14255:1995, IS:10810 (Part 43)-1984
17.		Water Absorption (Gravimetric)	IS 14255:1995, IS:10810 (Part 33)-1984
18.		Additional Ageing Test	IS 694:2010
19.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and Flexible conductor for rated voltage up to and including 1100 V	Smoke Density Rating	IS 694:2010, IS 13360 (Part 6, Sec 9)-2001
20.		Ageing in Air Oven on Insulation & Sheath (Tensile strength Variation)	IS 694:2010, IS:10810 (Part 11)-1984
21.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	IS 694:2010, IS:10810 (Part 11)-1984
22.		Annealing test (for copper)	IS 694:2010, IS:10810 (Part 1)-1984
23.		Marking	IS 694:2010

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
24.		Cold Bend Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 20)-1984
25.		Cold Impact Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 21)-1984
26.		Conductor Resistance Test	IS 694:2010, IS:10810 (Part 5)-1984
27.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and Flexible conductor for rated voltage up to and including 1100 V	Determination of the halogen acid gas evaluation	IS 694:2010, IS:10810 (Part 59)-1988
28.		Flammability Test	IS 694:2010, IS:10810 (Part 53)-1988
29.		Heat Shock Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 14)-1988
30.		High Voltage test (Water immersion)	IS 694:2010, IS:10810 (Part 45)-1988
31.		High Voltage Test at Room Temperature	IS 694:2010, IS:10810 (Part 45)-1988
32.		Hot Deformation/ Pressure Test at High Temperature on Insulation & Sheath	IS 694:2010, IS:10810 (Part 15)-1988
33.		Insulation Resistance	IS 694:2010, IS:10810 (Part 43)-1988
34.		Loss of Mass on Insulation & Sheath	IS 694:2010, IS:10810 (Part 10)-1984
35.		Measurement of Temperature Index on Insulation & Sheath	IS 694:2010, IS:10810 (Part 64)-2003
36.		Ovality	IS 694:2010

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Electrical Test				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Cables and Wires</b>			
37.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and Flexible conductor for rated voltage up to and including 1100 V	Oxygen Index Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 58)-1998	
38.		Persulphate Test (for tinned copper conductor cable only)	IS 694:2010, IS:10810 (Part 4)-1984	
39.		Shrinkage Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 12)-1984	
40.		Tensile Strength Insulation & Sheath	IS 694:2010, IS:10810 (Part 7)-1984	
41.		Elongation at Break on Insulation & Sheath	IS 694:2010, IS:10810 (Part 7)-1984	
42.		Tensile Test (for Aluminium)	IS 694:2010, IS:10810 (Part 2)-1984	
43.		Test for overall dimensions, Eccentricity & thickness of Insulation & Sheath	IS 694:2010, IS:10810 (Part 6)-1984	
44.		Thermal stability Test on Insulation & Sheath	IS 694:2010, IS:10810 (Part 60)-1988	
45.		Volume Resistivity	IS 694:2010, IS:10810 (Part 43)-1984	
46.		Wrapping Test (for Aluminium)	IS 694:2010, IS:10810 (Part 3)-1984	
47.		PVC Insulated (Heavy Duty) Electric cables for working voltages up to and including 1100V	High Voltage Test (Water Immersion)	IS 1554(Part-1) :1988, IS:10810 (Part 45)-1988
48.			High Voltage Test at Room Temperature	IS 1554(PART-1) :1988,IS:10810 (Part 45)-1988

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
49.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to and including 1100V	Ageing in Air Oven on Insulation & Sheath (Tensile strength Variation)	IS 1554(PART-1) :1988, IS:10810 (Part 11)-1984
50.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	IS 1554(PART-1) :1988, IS:10810 (Part 11)-1984
51.		Annealing test (for copper)	IS 1554(PART-1) :1988, IS:10810 (Part 1)-1984
52.		Cold Bend Test on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 20)-1984
53.		Cold Impact Test on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 21)-1984
54.		Conductor Resistance Test	IS 1554(PART-1) :1988, IS:10810 (Part 5)-1984
55.		Determination of the halogen acid gas evaluation	IS 1554(PART-1) :1988, IS:10810 (Part 59)-1988
56.		Dimensions of Armouring Material	IS 1554(PART-1) :1988, IS:10810 (Part 59)-1988
57.		Flammability Test	IS 1554(PART-1) :1988, IS:10810 (Part 53)-1984
58.		Heat Shock Test on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 14)-1984
59.		Hot Deformation on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 15)-1984

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
60.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to and including 1100V	Insulation Resistance	IS 1554(PART-1) :1988, IS:10810 (Part 43)-1984
61.		Flame Retardance test on Bunched Cables	IS 1554(PART-1) :1988, IS:10810 (Part 62)-1993
62.		Flame Retardance test on single Cables	IS 1554(PART-1) :1988, IS:10810 (Part 61)-1988
63.		Mass of Zinc Coating	IS 1554(PART-1) :1988, IS:10810 (Part 41)-1984
64.		Armoured Coverage Percentage	IS 1554(PART-1) :1988,
65.		Loss of Mass on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 10)-1984
66.		Measurement of Temperature Index	IS 1554(PART-1) :1988, IS:10810 (Part 64)-2003
67.		Oxygen Index Test	IS 1554(PART-1) :1988 IS:10810 (Part 58)-1998
68.		Resistivity Test on armoured material	IS 1554(PART-1) :1988, IS:10810 (Part 42)-1984
69.		Shrinkage Test on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 12)1984
70.	Tensile strength at break for armouring material	IS 1554(PART-1) :1988, IS:10810 (Part 37)1984	

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
71.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to and including 1100V	Elongation at break for armouring material	IS 1554(PART-1) :1988, IS:10810 (Part 37)1984
72.		Tensile Strength at Break on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 7)1984
73.		Elongation at Break on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 7)1984
74.		Tensile Test (for Aluminium)	IS 1554(PART-1) :1988, IS:10810 (Part 2)1984
75.		Test for overall dimensions thickness of Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 6)1984
76.		Thermal Stability Test on Insulation & Sheath	IS 1554(PART-1) :1988, IS:10810 (Part 60)1988
77.		Torsion Test for Round Wire	IS 1554(PART-1) :1988, IS:10810 (Part 38)1984
78.		Uniformity of Zinc Coating	IS 1554(PART-1) :1988, IS:10810 (Part 40)1984
79.		Winding Test for Formed Wire	IS 1554(PART-1) :1988, IS:10810 (Part 39)1984
80.		Wrapping Test (for Aluminium)	IS 1554(PART-1) :1988, IS:10810 (Part 3)1984
81.		Insulation Resistance	IS 1554(PART-1) :1988, IS:10810 (Part 43)1984

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
82.	Cross Linked Polyethylene Insulated PVC Sheathed cables for working voltages up to and including 1100V	Volume Resistivity	IS 1554(PART-1) :1988, IS:10810 (Part 43)1984
83.		Armoured Resistance test	IS 1554(PART-1) :1988,
84.		Measurement of Smoke Density of Electric Cables Under Fire Condition	IS 1554(PART-1) :1988, IS:10810 (Part 63)1993
85.		Cold Bend Test	IS 7098(PART-1) :1988, IS:10810 (Part 20)1984
86.		Armoured Resistance test	IS 7098(PART-1) :1988, IS:10810 (Part 42)1984
87.		Cold Impact Test	IS 7098(PART-1) :1988, IS:10810 (Part 21)1984
88.		Flammability Test	IS 7098(PART-1) :1988, IS:10810 (Part 53)1984
89.		Thermal Stability Test on Sheath	IS 7098(PART-1) :1988, IS:10810 (Part 60)1988
90.		Cross Linked Polyethylene Insulated PVC Sheathed cables for working voltages up to and including 1100V	Ageing in Air Oven on Insulation & Sheath (Tensile strength Variation)
91.	Ageing in Air Oven on Insulation & Sheath (Elongation Variation)		IS 7098(PART-1) :1988, IS:10810 (Part 11)1984
92.	Armoured Coverage Percentage		IS 7098(PART-1) :1988,
93.	Flame Retardance test on single Cables		IS 7098(PART-1) :1988, IS:10810 (Part 61)1988

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
94.		Flame Retardance test on Bunched Cables	IS 7098(PART-1) :1988, IS:10810 (Part 62)1984
95.		Mass of Zinc Coating	IS 7098(PART-1) :1988, IS:10810 (Part 41)1984
96.		Uniformity of Zinc Coating	IS 7098(PART-1) :1988, IS:10810 (Part 40)1984
97.		Winding Test for Formed Wire	IS 7098(PART-1) :1988, IS:10810 (Part 39)1984
98.		Resistivity Test armouring material	IS 7098(PART-1) :1988, IS:10810 (Part 42)1984
99.		Tensile strength armouring material	IS 7098(PART-1) :1988, IS:10810 (Part 37)1984
100.		Elongation at break for armouring material	IS 7098(PART-1) :1988, IS:10810 (Part 37)1984
101.		Dimensions of Armouring Material	IS 7098(PART-1) :1988, IS:10810 (Part 36)1984
102.		Torsion Test for Round Wire	IS 7098(PART-1) :1988, IS:10810 (Part 38)1984
103.		Cross Linked Polyethylene Insulated PVC Sheathed cables for working voltages up to and including 1100V	Annealing test (for copper)
104.	Conductor Resistance Test		IS 7098(PART-1) :1988, IS:10810 (Part 5)1984
105.	Determination of the halogen acid gas evaluation		IS 7098(PART-1) 1988, IS:10810 (Part 59)1988

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
106.		Heat Shock Test on Sheath	IS 7098(PART-1) 1988, IS:10810 (Part 14)1984
107.		High Voltage Test at Room Temperature	IS 7098(PART-1) 1988 IS:10810 (Part 45)1984
108.		Hot Deformation on Sheath	IS 7098(PART-1) :1988, IS:10810 (Part 15)1984
109.		Hot Set Test	IS 7098(PART-1) :1988, IS:10810 (Part 30)1984
110.		Loss of Mass in Air Oven	IS 7098(PART-1) :1988, IS:10810 (Part 10)1984
111.		Measurement of Temperature Index	IS 7098(PART-1) :1988, IS:10810 (Part 64) 2003
112.		Oxygen Index Test	IS 7098(PART-1) :1988, IS:10810 (Part 58)1998
113.		Shrinkage Test on Insulation & Sheath	IS 7098(PART-1) :1988, IS:10810 (Part 12)1984
114.		Tensile Strength at Break on Insulation & Sheath	IS 7098(PART-1) :1988, IS:10810 (Part 7)1984
115.	Cross Linked Polyethylene Insulated PVC Sheathed cables	Elongation at Break on Insulation & Sheath	IS 7098(PART-1) :1988, IS:10810 (Part 7)1984
116.	for working voltages up to and including 1100V	Tensile Test (for Aluminium)	IS 7098(PART-1) :1988, IS:10810 (Part 2)1984

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
117.	Halogen Free Flame Retardant (HFFR) Cables for working voltages up to and including 1100 Volts	Test for overall dimensions & thickness of Insulation & Sheath	IS 7098(PART-1) :1988 IS:10810 (Part 6)1984
118.		Volume Resistivity	IS 7098(PART-1) :1988, IS:10810 (Part 43)1984
119.		Water Absorption (Gravimetric)	IS 7098(PART-1) :1988, IS:10810 (Part 33)1984
120.		Wrapping Test (for Aluminium)	IS 7098(PART-1) :1988, IS:10810 (Part 3)1984
121.		Flammability Test on Finished cable	IS 17048 :2018 IS:10810 (Part 53)1984
122.		Ageing in Air Oven on Insulation & Sheath (Tensile strength Variation)	IS 17048 :2018 IS:10810 (Part 11)1984
123.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	IS 17048 :2018 IS:10810 (Part 11)1984
124.		Annealing Test (for copper)	IS 17048 :2018 IS:10810 (Part 1)1984
125.		Cold Bend Test on Insulation and Finished Cable	IS 17048 :2018 IS:10810 (Part 20)1984
126.		Cold Impact Test on Insulation and Finished Cable	IS 17048 :2018 IS:10810 (Part 21)1984
127.	Conductor Resistance Test	IS 17048 :2018 IS:10810 (Part 5)1984	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
128.	Halogen Free Flame Retardant (HFFR) Cables for working voltages up to and including 1100 Volts	Tensile strength & Elongation at Break on Insulation & Sheath	IS 17048 :2018 IS:10810 (Part 7)1984
129.		Flame Retardant Test on Insulation & Finished Cable	IS 17048 :2018 IS:10810 (Part 61)1988
130.		High Voltage Test on Insulation & Finished Cable	IS 17048 :2018 IS:10810 (Part 45)1984
131.		Hot Deformation Test on Insulation & Sheath	IS 17048 :2018 IS:10810 (Part 15)1984
132.		Hot Set Test	IS 17048 :2018 IS:10810 (Part 30)1984
133.		Insulation Resistance	IS 17048 :2018 IS:10810 (Part 43)1984
134.		Oxygen Index on Insulation & Sheath	IS 17048 :2018 IS:10810 (Part 58)1988
135.		Persulphate Test for tinned copper	IS 17048 :2018 IS:10810 (Part 4)1984
136.		Smoke Density Test on Finished Cable	IS 17048 :2018 IS:10810 (Part 63)1993
137.		Temperature Index on Insulation & Sheath	IS 17048 :2018 IS:10810 (Part 64)2003
138.	Tensile test (for aluminium)	IS 17048 :2018 IS:10810 (Part 2)1984	

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
139.		Test for Overall Dimensions	IS 17048 :2018 IS:10810 (Part 6)1984
140.		Test for Thickness of Insulation & Sheath	IS 17048 :2018 IS:10810 (Part 6)1984
141.	Halogen Free Flame Retardant (HFFR) Cables for working voltages up to and including 1100 Volts	Water immersion test (effect of water on sheath of cable) on finished cable	IS 17048 :2018
142.		Wrapping test (for aluminium)	IS 17048 :2018 IS:10810 (Part 3)1984
143.		Assessment of Halogen-pH	IS 17048 :2018
144.		Assessment of Halogen-conductivity	IS 17048 :2018
145.	Fuse wires used in rewirable type electric fuses upto 650 volts used in rewirable type electric fuses upto 650 volts	Dimensional Check	IS 9926:1981
146.	Fuse wires used in rewirable type electric fuses upto 650 volts	Persulphate Test	IS 9926:1981
147.		Resistance Test	IS 9926:1981
148.		Visual Examination	IS 9926:1981
149.	Electric Cables for Aircraft,	Construction	IS 10241 (PART-3): 1987

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
150.	Electric Cables for Aircraft, (Part 3 : Nyvin type Electric Cables)	Mechanical strength of wires from conductors (Tensile Strength)	IS 10241 (PART-3): 1987
151.		Mechanical strength of wires from conductors (Elongation)	IS 10241 (PART-3): 1987
152.		Non-Inflammability Test	IS 10241 (PART-3): 1987
153.		Tinning test	IS 10241 (PART-3): 1987
154.		Heat test	IS 10241 (PART-3): 1987
155.		Ageing in Air	IS 10241 (PART-3): 1987
156.		Bend Test	IS 10241 (PART-3): 1987
157.		Low Temperature Test	IS 10241 (PART-3): 1987
158.		Flexibility Test	IS 10241 (PART-3): 1987
159.		Voltage Test	IS 10241 (PART-3): 1987
160.		Voltage test on core	IS 10241 (PART-3): 1987
161.		Insulation resistance test on core	IS 10241 (PART-3): 1987
162.		Voltage test on complete cable	IS 10241 (PART-3): 1987
163.		Conductor resistance test	IS 10241 (PART-3): 1987

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
164.		Properties of PVC Insulation (Elongation at Break)	IS 10241 (PART-3): 1987
165.		Properties of PVC Insulation (Softness of Insulation)	IS 10241 (PART-3): 1987
166.		Properties of PVC Insulation (Volume Resistivity)	IS 10241 (PART-3): 1987
167.	Electric and Optical fibre cables	Bending test at low temperature of insulation & Sheath	IEC 60811-504:2012
168.	Electric and Optical fibre cables	Elongation at break of insulation & Sheath	IEC 60811-501:2012
169.	Electric and Optical fibre cables	Hot Set Test for Cross linked materials	IEC 60811-507:2012
170.	Electric and Optical fibre cables	Impact test at low temperature for insulation and sheath	IEC 60811-506:2012
171.	Electric and Optical fibre cables	Measurement of overall dimensions	IEC 60811-203:2012
172.	Electric and Optical fibre cables	Resistance of insulation & sheath to cracking (Heat shock test)	IEC 60811-509:2012
173.	Electric and Optical fibre cables	Shrinkage test for insulation	IEC 60811-502:2012
174.	Electric and Optical fibre cables	Shrinkage test for Sheath	IEC 60811-503:2012
175.	Electric and Optical fibre cables	Tensile strength of insulation & Sheath	IEC 60811-501:2012

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Electrical Test			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
176.	Electric and Optical fibre cables	Water absorption Test (Gravimetric)	IEC 60811-402:2012
177.	U V Radiation Effect insulation & Sheath	Retention of Tensile Strength	ASTM G-154
178.	U V Radiation Effect insulation & Sheath	Retention of Elongation	ASTM G-154
179.	XLPE & PE INSULATION	Caron Black Content	IS:10810 (Part 32)-1984



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Transmission Line Equipment and Accessories</b>		
1.	Aluminium Conductor for overhead transmission purpose-Aluminium stranded conductors	Measurement of diameter of individual aluminium wire.	IS 398 (Pt-1):1996
2.		Breaking Load individual aluminium wire	IS 398 (Pt-1):1996
3.		Wrapping Test individual aluminium wire	IS 398 (Pt-1):1996
4.		Resistance Test individual aluminium wire	IS 398 (Pt-1):1996
5.		Measurement of Lay Ratio	IS 398 (Pt-1):1996
6.	Aluminium Conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Breaking Load of Individual Wires	IS:398(Pt-2):1996
7.		Ductility Test (Elongation %)	IS:398(Pt-2):1996
8.		Galvanizing Test	IS:398(Pt-2):1996
9.		Measurement of diameter of individual aluminium and steel wire	IS:398(Pt-2):1996
10.		Measurement of Lay Ratio	IS:398(Pt-2):1996
11.		Resistance Test individual aluminium wire	IS:398(Pt-2):1996
12.	Ductility Test (Torsion Test)	IS:398(Pt-2):1996	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Transmission Line Equipment and Accessories</b>		
13.		Wrapping Test	IS:398(Pt-2):1996
14.		Breaking Load of Conductor	IS:398(Pt-4):1994
15.	Aluminium Conductor for overhead transmission purpose - Aluminium Alloy Stranded conductors	Elongation	IS:398(Pt-4):1994
16.		Measurement of diameter of individual aluminium Alloy	IS:398(Pt-4):1994
17.		Resistance	IS:398(Pt-4):1994
18.		Measurement of Lay Ratio	IS:398(Pt-4):1994



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring accessories</b>		
1.	Conduits for electrical installations, Rigid plain conduits of insulating materials	Bending (16mm, 20 mm & 25 mm)	IS:9537 (Part 3)-1983
2.		Checking of Dimensions	IS:9537 (Part 3)-1983
3.		Collapse Test (16mm, 20 mm & 25 mm)	IS:9537 (Part 3)-1983
4.		Compression Test	IS:9537 (Part 3)-1983
5.		Electrical Characteristics (Electrical Strength)	IS:9537 (Part 3)-1983
6.		Uniformity of wall thickness	IS:9537 (Part 3)-1983
7.		Impact Test	IS:9537 (Part 3)-1983
8.	Conduits for electrical installations, Rigid plain conduits of insulating materials	Insulation Resistance in Conduit	IS:9537 (Part 3)-1983
9.		Resistance to Burning	IS:9537 (Part 3)-1983
10.		Resistance to Heat	IS:9537 (Part 3)-1983
11.		Verification of Classification, Marking, Construction	IS:9537 (Part 3)-1983
12.	Conduit For Electrical Installation (Rigid Steel Conduits)	Verification of Classification, Marking, Construction	IS:9537 (Part 2)-1981
13.		Screw threads (CI 7.4)	IS:9537 (Part 2)- 1981
14.		External influences	IS:9537 (Part 2) - 1981

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Wiring accessories</b>			
15.	Conduit For Electrical Installation (Rigid Steel Conduits)	Bending (16mm ,20 mm & 25 mm)	IS:9537 (Part 2) - 1981	
16.		Compression Test	IS:9537(Pt-2):1981	
17.	Fittings for Rigid non-metallic conduits	Visual Examination	IS: 3419-1989	
18.		Checking of dimensions	IS: 3419-1989	
19.		Resistance to heat	IS: 3419-1989	
20.		Resistance to burning	IS: 3419-1989	
21.		Moisture absorption test	IS: 3419-1989	
22.		Test for resistance to chemical action	IS: 3419-1989	
23.		Copper test	IS: 3419-1989	
24.		Test for resistance to oil	IS: 3419-1989	
25.		Resistance to impact	IS: 3419-1989	
26.		Electrical strength	IS: 3419-1989	
27.		Insulation resistance	IS: 3419-1989	
28.		Conduit For Electrical Installation (Rigid Steel Conduits)	Dimensions (CI 7)	IS:9537 (Part 2)- 1981
29.			Checking the outside diameter (CI 7.2)	IS:9537 (Part 2)- 1981
30.			Measurement of thickness of the conduits (CI 7.3)	IS:9537 (Part 2)- 1981

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### \* Note:

#### Scope Extension 1:

Following scope of accreditation is extended w.e.f. 25 May 2025:

#### Chemical Testing-

- Metal and Alloys (S. No.- 1 to 2; Page no. 11);

#### Mechanical Testing-

- Mechanical properties of Metal (S. No.- 1 to 95; Page no. 44-49)

#### Electrical Discipline-

- Cables and Wires (S. No.- 1 to 179; Page no. 51-66)
- Transmission Line Equipment and Accessories (S. No.- 1 to 18; Page no. 67-68)
- Wiring Accessories (S. No.- 1 to 30; Page no. 69-70)

