

Quality And Accreditation Institute

Centre for Laboratory Accreditation



Certificate of Accreditation

Well Tech Test and Research Center

*Block-B, Industrial Area Near Euro Containers Village,
Saidpura Derabassi, SAS Nagar,
Mohali-140507, Punjab, 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/CLA/TL/2023/0024

Valid from: 15 September 2023

Valid until: 14 September 2025

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CLA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
1.	Admixture	pH value	IS 9103: 1999 (Reaffirmed Year: 2018)
2.		Dry material content	IS 9103: 1999 (Reaffirmed Year: 2018)
3.		Relative density	IS 9103: 1999 (Reaffirmed Year: 2018)
4.		Chloride Ion Content	IS 6925: 1973 (Reaffirmed Year: 2018)
5.		Ash content	IS 9103: 1999 (Reaffirmed Year: 2018)
6.	Fly ash	Silica	IS 1727: 1967 (Reaffirmed Year: 2018)
7.		Calcium Oxide	IS 1727: 1967 (Reaffirmed Year: 2018)
8.		Magnesium oxide	IS 1727: 1967 (Reaffirmed Year: 2018)
9.		Sulphur Trioxide	IS 1727: 1967 (Reaffirmed Year: 2018)
10.		Loss on Ignition	IS 1727: 1967 (Reaffirmed Year: 2018)
11.		Combined Oxide (Al ₂ O ₃ + Fe ₂ O ₃)	IS 1727: 1967 (Reaffirmed Year: 2018)
12.		Total chloride	IS 4032: 1985 (Reaffirmed Year: 2019)
13.	Ordinary Portland Cement (OPC)	Total chloride	IS 4032: 1985 (Reaffirmed Year: 2019)
14.		Calcium Oxide	IS 4032: 1985 (Reaffirmed Year: 2019)
15.		Magnesium oxide	IS 4032: 1985 (Reaffirmed Year: 2019)
16.		Sulphuric anhydride	IS 4032: 1985 (Reaffirmed Year: 2019)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
			Year: 2019)
17.		Loss on Ignition	IS 4032: 1985 (Reaffirmed Year: 2019)
18.		Silica	IS 4032: 1985 (Reaffirmed Year: 2019)
19.		Alumina	IS 4032: 1985 (Reaffirmed Year: 2019)
20.		Iron oxide	IS 4032: 1985 (Reaffirmed Year: 2019)
21.		Insoluble residue	IS 4032: 1985 (Reaffirmed Year: 2019)
22.	Aggregate	Total Alkali content as Na ₂ O and K ₂ O equivalent (%)	IS 4032: 1985
23.		Reduction in Alkalinity	IS 2386 (Part 7): 1963
24.		Dissolved Silica	IS 2386 (Part 7): 1963 RA: 2016
25.		Total Sulphate Content	BS EN 1744 (Part 1):1988
26.		Water Soluble Chloride Content	BS EN 1744 (Part 1): 1988
27.	Lime	Calcium Oxide	IS: 6932 (P-1)
28.		Magnesium Oxide	IS: 6932 (P-1)
29.		Silica	IS: 6932 (P-1)
30.		Ferro oxide	IS: 6932 (P-1)
31.		Insoluble residue	IS: 6932 (P-1)
32.		Free moisture	IS: 1514
33.		Available lime	IS: 1514
34.	Portland Pozzolana Cement (PPC)	Total chloride	IS 4032: 1985 (Reaffirmed Year: 2019)
35.		Calcium Oxide	IS 4032: 1985 (Reaffirmed Year: 2019)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
36.		Magnesium oxide	IS 4032: 1985 (Reaffirmed Year: 2019)
37.		Sulphuric Anhydride	IS 4032: 1985 (Reaffirmed Year: 2019)
38.		Loss of Ignition	IS 4032: 1985 (Reaffirmed Year: 2019)
39.		Silica	IS 4032: 1985 (Reaffirmed Year: 2019)
40.		Alumina	IS 4032: 1985 (Reaffirmed Year: 2019)
41.		Iron Oxide	IS 4032: 1985 (Reaffirmed Year: 2019)
42.		Insoluble residue	IS 4032 :1985 (Reaffirmed Year: 2019)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
1.	Aluminium & Aluminium Alloy	Al	ASTM E-1251 - 17a
2.		Cr	ASTM E-1251 - 17a
3.		Cu	ASTM E-1251 - 17a
4.		Fe	ASTM E-1251 - 17a
5.		Mg	ASTM E-1251 - 17a
6.		Mn	ASTM E-1251 - 17a
7.		Ni	ASTM E-1251 - 17a
8.		Pb	ASTM E-1251 - 17a
9.		Si	ASTM E-1251 - 17a
10.		Sn	ASTM E-1251 - 17a
11.		V	ASTM E-1251 - 17a
12.		Zn	ASTM E-1251 - 17a
13.	Ferrous & Ferrous Alloy	C	ASTM E415-21, IS 8811: 1998
14.		Si	ASTM E415-21, IS 8811: 1998
15.		Mn	ASTM E415-21, IS 8811: 1998
16.		P	ASTM E415-21, IS 8811: 1998
17.		S	ASTM E415-21, IS 8811: 1998
18.		Cr	ASTM E415-21, IS 8811: 1998
19.		Mo	ASTM E415-21, IS 8811: 1998
20.		Ni	ASTM E415-21, IS 8811: 1998
21.		Cu	ASTM E415-21, IS 8811: 1998
22.		Al	ASTM E415-21, IS 8811: 1998
23.		Ti	ASTM E415-21, IS 8811: 1998
24.		V	ASTM E415-21, IS 8811: 1998
25.		B	ASTM E415-21, IS 8811: 1998
26.		Co	ASTM E415-21, IS 8811: 1998

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
27.		As	ASTM E415-21, IS 8811: 1998
28.		C	ASTM E1086-22, IS:9879; 1998
29.		Si	ASTM E1086-22, IS:9879; 1998
30.		Mn	ASTM E1086-22, IS:9879; 1998
31.		P	ASTM E1086-22, IS:9879; 1998
32.	Stainless Steel	S	ASTM E1086-22, IS:9879; 1998
33.		Cr	ASTM E1086-22, IS:9879; 1998
34.		Mo	ASTM E1086-22, IS:9879; 1998
35.		Ni	ASTM E1086-22, IS:9879; 1998
36.		Cu	ASTM E1086-22, IS:9879; 1998
37.		Cu	BS EN15079-2015
38.		Al	BS EN15079-2015
39.		As	BS EN15079-2015
40.	Copper & Copper Alloy	Cd	BS EN15079-2015
41.		Bi	BS EN15079-2015
42.		Fe	BS EN15079-2015
43.		Pb	BS EN15079-2015
44.		Mn	BS EN15079-2015
45.		Ni	BS EN15079-2015
46.		P	BS EN15079-2015
47.		Si	BS EN15079-2015
48.		Ag	BS EN15079-2015
49.		Sn	BS EN15079-2015
50.		Zn	BS EN15079-2015
51.	Zinc & Zinc Alloy	Pb	ISO 3815 Part-1
52.		Mg	ISO 3815 Part-1

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
53.		Al	ISO 3815 Part-1
54.		Cd	ISO 3815 Part-1
55.		Sn	ISO 3815 Part-1
56.		Cu	ISO 3815 Part-1
57.		Fe	ISO 3815 Part-1
58.		Zn	ISO 3815 Part-1
59.	Galvanised steel	Mass of Zinc Coating Test	IS 6745



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking water	Total alkalinity	IS 3025: Part 23: 1986 (Reaffirmed Year: 2019)
2.		Calcium	IS 3025: Part 40: 1991 (Reaffirmed Year: 2019)
3.		Turbidity	IS 3025: Part 10: 1984 (Reaffirmed Year: 2017)
4.		pH	IS 3025: Part 11: 1983 (Reaffirmed Year: 2017)
5.		Chloride	IS 3025: Part 32: 1988 (Reaffirmed Year: 2019)
6.		Fluoride	IS 3025: Part 60: 2008 (Reaffirmed Year: 2019)
7.		Total dissolved solid	IS 3025: Part 16 :1984 (Reaffirmed Year: 2017)
8.		Iron	IS 3025: Part 53: 2003 (Reaffirmed Year: 2019)
9.		Silica	IS 3025: Part 35: 1988 (Reaffirmed Year: 2019)
10.		Sulphite	IS 3025: Part 28: 1986 (Reaffirmed Year: 2019)
11.		Sulphate	IS 3025: Part 24: 1986 (Reaffirmed Year: 2019)
12.		Total hardness	IS 3025: Part 21: 2009 (Reaffirmed Year: 2019)
13.		Magnesium	IS 3025: Part 46: 1994 (Reaffirmed Year: 2019)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
14.	Construction Water	Acidity (Volume of 0.02 N-NaOH to Neutralize 100 ml of Water)	IS 3025 (Part 22): 1986
15.		Alkalinity (Volume of 0.02 N-Sulphuric Acid to Neutralize 100ml of Water)	IS 3025 (Part 23): 1986
16.		Chloride	IS 3025 (Part 32): 1988
17.		Inorganic Solid	IS 3025 (Part 18): 1984
18.		Organic Solid	IS 3025 (Part 18): 1984
19.		pH Value	IS 3025 (Part 11): 1983
20.		Sulphate	IS 3025 (Part 24): 1986
21.		Suspended Solid	IS 3025 (Part 17): 1984



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Microscopes		
1.	Microscope and its allied products	Dimensions	IS 3081:1994
2.	Microscope and its allied products	Calculated Play	IS 3081:1994
3.	Microscope and its allied products	Mechanical Tube Length	IS 3081:1994
4.	Microscope and its allied products	Image plane	IS3081:1994
5.	Microscope and its allied products	Condenser	IS 3081:1994
6.	Microscope and its allied products	Sub stage filter	IS3081:1994
7.	Microscope and its allied products	Objective thread	IS3081:1994
8.	Microscope and its allied products	Reflecting mirror diameter	IS 3081:1994
9.	Microscope and its allied products	Homogeneity	IS1400:1960
10.	Microscope and its allied products	Color	IS1400:1960
11.	Microscope and its allied products	Transparency	IS1400:1960
12.	Microscope and its allied products	Refractive index and partial dispersion	IS 1400:1960
13.	Microscope and its allied products	Abbey number	IS 1400:1960

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Microscopes		
14.	Microscope and its allied products	Focal Length	IS 988:1959
15.	Microscope and its allied products	Aperture	IS 988:1959
16.	Microscope and its allied products	Thickness	IS 988:1959
17.	Microscope and its allied products	Figure	IS 988:1959
18.	Microscope and its allied products	Cylindrical Lens	IS 988:1959
19.	Microscope and its allied products	Microscope Object	IS 988:1959
20.	Microscope and its allied products	Prism Angle	IS 988:1959
21.	Microscope and its allied products	Deviation Angle	IS 988:1959
22.	Microscope and its allied products	Pyramidal Error	IS 988:1959
23.	Microscope and its allied products	Roof Angle	IS 988:1959
24.	Microscope and its allied products	Surface defect	IS988:1959
25.	Microscope and its allied products	Adherence Test	IS988:1959
26.	Microscope and its allied products	Radius of curvature	IS 988:1959

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Microscopes		
27.	Microscope and its allied products	Temperature Test	IS988:1959
28.	Microscope and its allied products	Corrosion test	IS988:1959
29.	Microscope and its allied products	Test (Optical) Magnification	IS 2754: 1964/IS 3686:1966/ IS 8275:1976/IS 5204:1696/IS 4381:1961
30.	Microscope and its allied products	Numerical Aperture	IS 2754:1964
31.	Microscope and its allied products	Field Number	IS 5204:1969
32.	Microscope and its allied products	Resolving Power	IS2754:1964
33.	Microscope and its allied products	Star Test	IS 3686:1966/IS 5204:1696/IS 4381:1961
34.	Microscope and its allied products	Clarity of field view	IS 3686:1966/IS 5204:1696/IS 4381:1961
35.	Microscope and its allied products	Distortion	IS 3686:1966/IS 5204:1696/IS 4381:1961
36.	Microscope and its allied products	Functional Requirements	IS 3686:1966/IS 5204:1696/IS 4381:1961
37.	Microscope and its allied products	Test (Mechanical)	IS3686:1966/IS 8275:1976/IS 5204:1696/IS 4381:1961
38.	Microscope and its allied products	Squareness of stage	IS 3686:1966
39.	Microscope and its allied products	Parallelism of Optical axis	IS8275:1976

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
1.	Plywood & its allied products	Dimension: Length, Width, Thickness, Variation in Thickness, Edge Straightness, Squareness.	IS 303: 1989, IS 710: 2010, IS 1328: 1996, IS: 1659: 2004, IS 2202 (Part 1): 1999, IS 2202 (Part 1): 2023, IS 2380 (Part 2): 1977, IS 3087: 2005, IS 4990: 2011, IS 5509: 2021, IS 12406: 2021, IS 12823: 2015 IS 14587: 1998
2.	Block Boards	Dimensional Changes caused by Humidity	IS 1659:2004
3.		Adhesion of plies	IS 1659:2004
4.		Static Bending Strength (MOR)	IS 1659:2004
5.		Mycological Test	IS: 1659: 2004
6.		Modulus of Rupture	IS: 1659: 2004/ IS 1734 (Part 11): 1983
7.		Modulus of Elasticity	
8.		Spot test (DETECTION OF BORON IN BORAX: BORIC ACID, CCB, BCCA.	IS 1659:2004 (RA 2014), CL. ANNEX K-K-3, CL. 9.2.6
9.		Glue Adhesion	IS 1734 (Part 5): 1983
10.	Plywood for General	Workmanship & Finish	IS 303:1989 RA, CL. 9.1

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
	Purposes		and 9.2
11.	Marine Plywood, Shattering Plywood, Wooden Flush Door Shutter	Water Resistance Test (Glue adhesion)	IS 1734 (Part 5): 1983 & IS: 1328:1996
12.		Mycological Test	IS 1734 (Part 7): 1983
13.		Moisture Content	IS 1734 (Part 1): 1983
14.		Static Bending Strength / Modules of Rupture (MOR)	IS 1734 (Part 11): 1983
15.		Static Bending Strength (MOE)	IS 1734 (Part 11): 1983
16.		Spot test (DETECTION OF BORON IN BORAX: BORIC ACID, CCB, BCCA.	IS 1659:2004 (RA 2014), CL. ANNEX K-K-3, CL. 9.2.6
17.		Tensile Strength	IS 1734 (Part 9): 1983 (RA 2018)
18.		Screw withdrawal resistance	IS:4020 (Part 16): 1998
19.		Density	IS: 2380 (Part 3):
20.	Treated Timber and Treating Solution	Preservative	IS 2753 (Part 1): 1991
21.	Fire Retardant Plywood	Glue Adhesion	IS 1734 (Part 5): 1983
22.		Glue Shear Strength	IS 1734 (Part 4): 1983
23.		Tensile Strength	IS 1734 (Part 9): 1983(RA 2018)
24.		Wet Bending	IS 710: 2010, IS 4990: 2011
25.		Wet Bending Strength (Modulus of elasticity)	IS 1734 (Part 11): 1983
26.		Flammability	IS 1734 (Part 3):1983

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
27.		Flame penetration	IS 1734 (Part 3):1983
28.		Rate of burning	IS 1734 (Part 3):1983
29.		Water Resistance Test	IS 1734 (Part 6): 1983
30.		Height	IS:2202(Part 1): 2023
31.	Wooden Flush door shutter	Local plainness	IS:4020(Part 4):1998
32.		Impact indentation	IS:4020(Part 5): 1998
33.		Flexural test	IS:4020(Part 6): 1998
34.		Edge loading	IS:4020(Part 7): 1998
35.		Shock resistance	IS:4020 (Part 8): 1998
36.		Buckling resistance test	IS:4020 (Part 9): 1998
37.		Slamming test	IS:4020 (Part 10): 1998
38.		Misuse test	IS:4020 (Part 11): 1998
39.		Varying humidity	IS:4020 (Part 12): 1998
40.		End immersion	IS:4020 (Part 13): 1998
41.		Knife test	IS:4020 (Part 14): 1998
42.		Glue adhesion	IS:4020 (Part 15): 1998
43.		Screw withdrawal resistance	IS:4020 (Part 16): 1998
44.		Formal aldehyde content	IS: 13745:2020
45.	Particle board and Fibre board	Density	IS: 2380 (Part 3): 1981
46.		Variation in density	IS: 2380 (Part 3): 1981
47.		Water Absorption	IS: 2380 (Part 16): 1981
48.		Swelling in water	IS: 2380 (Part 17): 1981
49.		Swelling due to surface absorption	IS: 2380 (Part 17): 1981
50.		Modulus of Rupture	IS: 2380 (Part 4): 1981



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
51.		Modulus of elasticity	IS: 2380 (Part 4): 1981
52.		Tensile Strength (perpendicular to surface) / internal bond strength	IS: 2380 (Part 5): 1981
53.		Tensile Strength (perpendicular to surface after ageing)	IS: 2380 (Part 5): 1981
54.		Workability	IS: 3087: 2005
55.		Abrasion resistance	IS: 14587: 1998, IS 2046: 1995, IS: 12406: 2021
56.		Resistance to cigrate burn	IS: 14587/IS: 12406
57.		Resistance to cracking of lamination under heat	IS: 14587: 1998, IS: 12406: 2021
58.		Resistance to Steam	IS: 14587: 1998, IS: 12406: 2021
59.	Safety glass -for architectural, building and general uses	Resistance to Shock Test	IS 2553 (Part 1): 2018
60.		Distribution Of Allowable Defects	IS 2553 (Part 1): 2018
61.		Thickness	IS 17004: 2018
62.		Dimension	IS 2553 (Part 1): 2018
63.		Squareness	IS 2553 (Part 1): 2018
64.		Fragmentation	IS 17004: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
65.		Flatness	IS 2553 (Part 1): 2018, IS 17004: 2018
66.		Overall Bow	IS 2553 (Part 1): 2018
67.		Roller Wave Distortion	IS 2553 (Part 1): 2018
68.		Edge Lift	IS 2553 (Part 1): 2018
69.		Local Distortion	IS 2553 (Part 1): 2018
70.		Resistance To Impact	IS 17004 :2018
71.		Resistance To Human Impact	IS 17004:2018
72.		Fabrication In Glass	IS 2553 (Part 1): 2018
73.		Laminated Safety Glass Thickness	IS 17004: 2018
74.		Laminated Safety Glass Dimension	IS 17004: 2018
75.		Laminated Safety Glass Squareness	IS 17004: 2018
76.		Light Stability Test	IS 17004: 2018
77.		Boil And Bake Test	IS 17004: 2018
78.		Fracture And Adhesion Test	IS 17004: 2018
79.		Defect In Central Area	IS 17004: 2018
80.		Resistance To Human Impact Laminated Area	IS 17004: 2018
81.		Dimensions after working on Glass After Lamination	IS 2553 (Part 1): 2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
1.	Thermoplastics Pipes and Fittings	Dimensions: Mean outside diameter, Wall thickness	IS 12235 (Part-1):2004,
2.		Longitudinal Reversion	IS 12235 (Part-5): 2004
3.		Stress relief test	IS 12235 (Part 6): 2004
4.		Vicat softening temperature	IS 12235 (P-2): 2004
5.		Resistance to sulphuric acid	IS 12235 (Part 13):2004
6.		Resistance to external blows at 0°C	IS 12235(Part-9): 2004
7.		Tensile Strength	IS:12235 (Part-13): 2004
8.		Resistance to dichloromethane at specified temperature	IS 12235 (Part 11): 2004
9.		Effect on water	IS 12235 (Part -4, Part -10, Part -11): 2004
10.		Dimension (Length)	IS 12235 (Part-1): 2004
11.		Density	IS:12235 (Part-14): 2004
12.		Effect of sunlight	IS:12235 (P-13): 2004
13.	Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluents.	Dimensions: Mean outside diameter	IS 14333: 2022
14.	Fittings for rigid non-metallic conduits	Dimensions: Wall thickness	IS: 3419-1988
15.		Dimension (outside diameter of bend)	IS: 3419: 1988
16.			IS: 3419: 1988
17.		Dimension (Length)	IS: 3419: 1988
18.			IS: 3419: 1988
19.		VISUAL EXAMINATION	IS: 3419: 1988
20.		RESISTANCE TO HEAT	IS: 3419: 1988



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
21.		RESISTANCE TO BURNING	IS: 3419: 1988
22.		MOISTURE ABSORPTION TEST	IS: 3419: 1988
23.		RESISTANCE TO CHEMICAL ACTION	IS: 3419: 1988
24.		COPPER TEST	IS: 3419: 1988
25.		RESISTANCE TO OIL	IS: 3419: 1988
26.		RESISTANCE TO IMPACT	IS: 3419: 1988
27.		Electric Strength	IS: 3419: 1988
28.		Insulation Resistance	IS: 3419: 1988
29.	Polyethylene pipes for water supply	Dimensions: Wall thickness	IS 4984: 2016
30.		Visual appearance	IS 4984: 2016
31.		Dimension (Length)	IS 4984: 2016
32.		Colour	IS 4984: 2016
33.		Elongation at break	IS 4984: 2016
34.		Internal pressure creep rupture test for pipe	IS 4984: 2016
35.		length of straight pipe	IS 4984: 2016
36.		Longitudinal Reversion Test	IS 4984: 2016
37.		Ovality	IS 4984: 2016
38.		Oxidation induction time	IS 4984: 2016
39.		Slow crack growth rate test	IS 4984: 2016
40.		Tensile strength for butt fusion	IS 4984: 2016
41.		Volatile Matter	IS 4984: 2016
42.		water Content	IS 4984: 2016
43.		Visual appearance	IS 4985: 2000



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
44.	Unplasticized pvc pipes for potable water supplies	Resistance to external blows at 0°C	IS 4985: 2000
45.		Dimension (Length)	IS 4985: 2000
46.		Hydrostatic Characteristics	IS 4985: 2000
47.		Sulphated ash content test	IS 4985: 2000
48.	Unplasticized polyvinyl chloride (PVC - U) screen and casing pipes for bore/tube wells	Visual appearance	IS 12818: 2010
49.		Dimension for sealing element (Dia.)	IS 12818: 2010
50.		Dimension for sealing element (Height)	IS 12818: 2010
51.		Dimension for sealing element (width)	IS 12818: 2010
52.		Elastomeric Sealing ring (Hardness)	IS 12818: 2010
53.		Ribs	IS 12818: 2010
54.		Ribs (Height)	IS 12818: 2010
55.		Slot width	IS 12818: 2010
56.		Threading of screen and casing pipe (Thread Profile)	IS 12818: 2010
57.	Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System Inside and	Visual appearance	IS: 13592: 2013
58.		Axial shrinkage	IS 13592: 2013
59.		Water tightness of joints	IS 13592: 2013
60.	High density polyethylene pipe for sewerage	Visual appearance	IS 14333: 1996



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
61.	Unplasticized Non-Pressure Polyvinyl Chloride (PVC -U) Pipes for use in Underground Drainage and Sewerage Systems	Visual appearance	IS: 15328-2003
62.		Axial shrinkage	IS 15328: 2003
63.		Water tightness of joints	IS 15328: 2003
64.		Elastomeric Sealing ring joint	IS: 15328-2003
65.		Solvent cement joints	IS: 15328-2003
66.	Injection moulded PVC socket fittings with solvent cement joints for water supplies	Stress relief test	IS: 7834 (PART-1, 2, 3, 4, 5, 6, 7): 1987
67.		Dimensions (Min. socket length)	IS: 7834 (PART-1, 2, 3, 4, 5, 6, 7): 1987
68.		Dimensions (Mean Socket Internal Diameter at Mid-Point of Socket Length)	IS: 7834 (PART-1): 1987
69.		Dimensions (Out-of-roundness tolerances of socket inside diameter)	IS: 7834 (PART-1): 1987
70.		Size, mm	IS: 7834 (PART- 2, 3, 4, 5, 6, 7): 1987
71.		45 deg. Elbow Laying Length	IS: 7834 (PART-2): 1987
72.		90 deg. Elbow Laying Length	IS: 7834 (PART- 3, 4, 5, 6, 7, 8): 1987
73.		Opacity	IS: 7834 (PART-1, 2, 3, 4, 5, 6, 7): 1987
74.		Effect on water	IS: 7834 (PART-1, 2, 3, 4, 5, 6, 7): 1987
75.		Short Term Hydraulic Test	IS: 7834 (PART-1, 2, 3, 4, 5, 6, 7): 1987
76.	Thermoplastics Material	Vicat softening temperature	IS 13360 (P-6/Sec-1): 1999 (ISO 306: 2013)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
77.	Rigid PVC sheets	Vicat softening temperature	IS 6307: 1985
78.		Resistance to Burning	IS 9537 (Part 3): 1983
79.		Dimensions (outside diameter)	IS 9537 (Part 3): 1983
80.		Dimensions (inside diameter)	IS 9537 (Part 3): 1983
81.		Dimensions (Length of socket)	IS 9537 (Part 3): 1983
82.	Rigid plain conduits for electrical installations	Uniformity of the Wall Thickness	IS 9537 (Part 3): 1983
83.		Bending Test	IS 9537 (Part 3): 1983
84.		Compression Test	IS : 9537 (Part 1): 1980
85.		Impact Test	IS : 9537 (Part 1): 1980
86.		Collapse Test	IS : 9537 (Part 1): 1980
87.		Electrical Strength, Insulation Resistance	IS 9537 (Part 3): 1983
88.		External Influence	IS 9537 (Part 3): 1983
89.	Polyethylene Material for	Base Density	IS 7328: 2020
90.	Moulding and Extrusion	Density	IS 7328: 2020
91.		Carbon Black Content	IS:2530: 1963
92.	Polyethylene moulding	Carbon Black Dispersion	IS:2530: 1963
93.	materials and polyethylene compounds	Hydraulic characteristics (PARAMETERS)	IS:2530: 1963
94.		Melt Flow Rate	IS:2530: 1963
95.	Plastics materials and articles intended to come in contact	Overall Migration test	IS 9845: 1998



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
	with foodstuffs		
96.	Rotational moulded polyethylene water storage tanks	Net capacity	IS 12701: 1996
97.		overall diameter	IS 12701: 1996
98.		overall height	IS 12701: 1996
99.		minimum internal diameter of manhole	IS 12701: 1996
100.		minimum wall thickness and bottom thickness	IS 12701: 1996
101.		minimum weight of tank	IS 12701: 1996
102.		overall width	IS 12701: 1996
103.		overall length	IS 12701: 1996
104.		minimum internal diameter of hand hole	IS 12701: 1996
105.		finish	IS 12701: 1996
106.		resistance to deformation	IS 12701: 1996
107.		RESISTANCE TO IMPACT	IS 12701: 1996
108.		Top load resistance	IS 12701: 1996
109.		Lid thickness	IS 12701: 1996
110.		Manhole clearance	IS 12701: 1996
111.	Plastics	Flexural modulus	IS 13360 (Part 5/Sec 7): 2017 (ISO 178: 2019)
112.	Decorative thermosetting synthetic resin bonded laminated sheets	Resistance to Surface Wear	IS 2046:1995
113.		Resistance to Dry Heat at 180 deg C	IS 2046:1995
114.		Dimensional Stability at Deviated Temperature	IS 2046:1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
115.		Dimensional Stability at 20 deg C	IS 2046:1995
116.		Resistance to impact by small diameter ball	IS 2046:1995
117.		Resistance to Impact by Large Dia ball (Self-supporting compact laminate)	IS 2046:1995
118.		Resistance to Cracking (Thin laminate)	IS 2046:1995
119.		Resistance to Scratching	IS 2046:1995
120.		Resistance to Staining	IS 2046:1995
121.		Resistance to Color Change in Xenon Arc Light	IS 2046:1995
122.		Resistance to cigarette burn	IS 2046:1995
123.		Formability	IS 2046:1995
124.		Resistance to Blistering	IS 2046:1995
125.		Resistance to Cracking (Thick Laminates)	IS 2046:1995
126.		Resistance to Moisture (Double faced compact laminate)	IS 2046:1995
127.		Flexural Modulus	ANNEX F IS 13410: 1992
128.		Flexural Strength	ANNEX F IS 13410: 1992
129.		Tensile Strength	IS 13360 Part 5, Sec. 2: 2017, and Sec 3: 2022
130.		Color and Pattern	IS 2046:1995
131.		Surface Finish	IS 2046:1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastic and Plastic Products		
132.		Reverse Side Bonding	IS 2046:1995
133.		Appearance	IS 2046:1995
134.		Surface Defect	IS 2046:1995
135.		Spot, Dirt and Similar Surface Defect	IS 2046:1995
136.		Fibres, Hair Scratch	IS 2046:1995
137.		Combination of Surface Defect	IS 2046:1995
138.		Edge Defects	IS 2046:1995
139.		Broken Corner	IS 2046:1995
140.		Sanding Defects	IS 2046:1995
141.		Wrapping	IS 2046:1995
142.	Synthetic resin adhesives for plywood (Phenolic)	Cyclic test	IS 848:2006
143.		Determination of pH value	IS 848:2006



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
1.	Admixture	Compressive strength	IS 516: 1959
2.		Drying Shrinkage	IS 1199: 1959
3.		Flexural strength	IS 516: 1959
4.		slump/loss of workability	IS 9103: 1999
5.		test for bleeding	IS 9103: 1999
6.		water content	IS 9103: 1999
7.	Autoclave cellular blocks	compressive strength	IS 6441 (Part 5): 1972
8.		Dimension (a) Length	IS 2185 (Part 3): 2008
9.		Dimension (b) Width	IS 2185 (Part 3): 2008
10.		Dimension(c) Thickness	IS 2185 (Part 3): 2008
11.		Drying shrinkage	IS 6441 (Part 2): 1972
12.		Thermal Conductivity	IS 3346: 1980
13.	Burnt clay bricks	Dimension test(a) Length	IS 1077: 1992
14.		Dimension test(b) Width	IS 1077: 1992
15.		Dimension test(c) Height	IS 1077: 1992
16.	Burnt clay bricks/Fuel Lime Ash Bricks	Compressive strength	IS 3495 (Part 1): 2019
17.		Drying Shrinkage (fly ash bricks)	IS 1199: 1959
18.		Efflorescence	IS 3495 (Part 3): 2019
19.		Water absorption	IS 3495 (Part 2): 2019
20.	Fuel lime ash bricks	Dimension test(a) Length	IS 12894: 2002
21.		Dimension test(b) Width	IS 12894: 2002
22.		Dimension test(c) Height	IS 12894: 2002
23.	Lime (Class C)	Fineness	IS 6932 (Part 4): 1973
24.		popping and pitting	IS 6932 (Part 10): 1973
25.		Residue on slaking	IS 6932 (Part 3): 1973
26.		volume yield	IS 6932 (Part 6): 1973

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
27.		workability	IS 6932 (Part 8): 1973
28.	Cement-OPC	Compressive strength(b) 168 ± 2Hrs	IS 4031 (Part 6): 1988
29.		Compressive strength(c) 678 ± 4Hrs	IS 4031 (Part 6): 1988
30.		Compressive strength (a) 72 ± 1Hrs	IS 4031 (Part 6): 1988
31.		consistency	IS 4031 (Part 4): 1988
32.		Density	IS 4031 (Part 11): 1988
33.		Drying Shrinkage (PPC)	IS 4031 (Part 10): 1988
34.		Final setting Time	IS 4031 (Part 5): 1988
35.		Fineness by Blaine permeability apparatus	IS 4031 (Part 2): 1999
36.		Initial setting Time	IS 4031 (Part 5): 1988
37.		Soundness (Autoclave Method)	IS 4031 (Part 3): 1988
38.		Soundness (Le Chatelier Method)	IS 4031 (Part 3): 1988
39.		Transverse Strength	IS 4031 (Part 8): 1988
40.		Degree of whiteness	IS 8042: 2015
41.	Hardened Concrete	Compressive strength	IS 516: 1959
42.	Fly Ash	Compressive strength	IS 1727: 1967
43.		Fineness by Blaine permeability	IS 1727: 1967
44.		Lime Reactivity	IS 1727: 1967
45.		moisture content	IS 3812 (Part 1): 2013
46.		Residue on 45 micron sieve (Wet sieving)	IS 1727: 1967
47.		Soundness (Autoclave Method)	IS 1727: 1967

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
48.	Manhole Cover	Drying Shrinkage	IS 1727: 1967
49.		Specific Gravity	IS 1727: 1967
50.		dimensions and tolerance	IS 12592: 2002
51.		Load test	IS 12592: 2002
52.	Chequered cement /cement concrete flooring tiles	water absorption	IS 13801: 2013
53.		Dimension (a) Length	IS 1237: 2012
54.		Dimension (b) width	IS 1237: 2012
55.		Dimension(a) Length	IS 13801: 2013
56.		Dimension(b) Width	IS 13801: 2013
57.		Dimension(c) Thickness	IS 13801: 2013
58.		Perpendicularity	IS 1237: 2012
59.		Perpendicularity	IS 13801: 2013
60.		Resistance to Wear	IS 1237: 2012
61.		straightness	IS 13630 (Part 1): 2019
62.		surface flatness	IS 13630 (Part 1): 2019
63.		Thickness of wearing layer	IS 13801: 2013
64.		Dimension (c) thickness	IS 1237: 2012
65.	Coarse Aggregate	10% Fines value	IS 2386 (Part 4): 1963
66.		Abrasion Value	IS 2386 (Part 4): 1963
67.		Bulk Density	IS 2386 (Part 3): 1963
68.		Crushing Value	IS 2386 (Part 4): 1963
69.		Deleterious Material	IS 2386 (Part 2): 1963
70.		Elongation Index	IS 2386 (Part 1): 1963
71.		Flakiness Index	IS 2386 (Part 1): 1963
72.		Impact Value	IS 2386 (Part 4): 1963



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
73.		Sieve Analysis (IS Sieve Size: 80mm, 63mm, 50mm, 40mm, 31.5mm, 25mm, 20mm, 16mm, 12.5mm, 10mm, 6.3mm, 4.75mm)	IS 2386 (Part 1): 1963
74.		Soundness	IS 2386 (Part 5): 1963
75.		Specific Gravity	IS 2386 (Part 3): 1963
76.		Water Absorption	IS 2386 (Part 3): 1963
77.	Fine aggregate	Bulk Density	IS 2386 (Part 3): 1963
78.		Deleterious Material	IS 2386 (Part 2): 1963
79.		Material Finer than 75 µm	IS 2386 (Part 1): 1963
80.		Organic Impurities	IS 2386 (Part 2): 1963
81.		Sieve Analysis (IS Sieve Size: 10, 4.75, 2.36, 1.18, 0.600, 0.300, 0.150 mm)	IS 2386 (Part 1): 1963
82.		Soundness	IS 2386 (Part 5): 1963
83.		Specific Gravity	IS 2386 (Part 3): 1963
84.		Water Absorption	IS 2386 (Part 3): 1963
85.	Precast Concrete Block for Paving	Abrasion Resistance	IS 15658: 2021
86.		Compressive Strength	IS 15658: 2021
87.		Dimension	IS 15658: 2021
88.		Freeze-Thaw Durability	IS:15658, Annex H: 2021
89.		Tensile Splitting Strength	IS 15658: 2021
90.		Transverse Strength/Flexural Strength	IS 15658: 2021
91.		Water Absorption	IS 15658: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
92.	Pulverized Fuel Ash-Cement Bricks	Length	IS: 16720-2018
93.	Pulverized Fuel ash- Bricks	Width	IS: 16720-2018
94.		Height	IS: 16720-2018
95.		Density	IS: 2185 (P-1)
96.		Compressive strength	IS: 3495 (P-1)
97.	Pulverized Fuel Ash-Cement Bricks	Water absorption	IS: 3495 (P-2)-2019
98.	Shallow Corrugated Asbestos Cement Sheets	overall width	IS: 13008-1990
99.		Nominal Thickness	IS: 13008-1990
100.		Length	IS: 13008-1990
101.		Load bearing capacity	IS: 5913-2003
102.		Impermeability	IS: 5913-2003
103.	Concrete masonry unit - Hollow and solid blocks	Length	IS: 2185 (P-1)-2005
104.		Width	IS: 2185 (P-1)-2005
105.		Height	IS: 2185 (P-1)-2005
106.		Compressive Strength	IS: 2185 (P-1)-2005
107.		Drying Shrinkage	IS: 2185 (P-1)-2005
108.		Moisture Movement	IS: 2185 (P-1)-2005
109.		Block Density	IS: 2185 (P-1)-2005
110.		Water absorption	IS: 2185 (P-1)-2005
111.		Length	IS: 2185 (P-2)-1983
112.		Width	IS: 2185 (P-2)-1983
113.		Height	IS: 2185 (P-2)-1983
114.		Compressive Strength	IS: 2185 (P-2)-1983
115.		Drying Shrinkage	IS: 2185 (P-2)-1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
116.		Moisture Movement	IS: 2185 (P-2)-1983
117.		Block Density	IS: 2185 (P-2)-1983
118.		Water absorption	IS: 2185 (P-2)-1983
119.	Asbestos Cement Flat Sheets	Length	IS: 2096-1992
120.		Width	IS: 2096-1992
121.		Straightness	IS: 2096-1992
122.		Squareness	IS: 2096-1992
123.		Thickness	IS: 2096-1992
124.		Bending Test	IS: 5913-2003
125.		Density	IS: 5913-2003
126.	Gypsum Plaster Boards	Dimension (a) Length	IS 2095 (Part-1): 2011
127.		Dimension (b) Width	IS 2095 (Part-1): 2011
128.		Dimension(c)Thickness	IS 2095 (Part-1): 2011
129.		Transverse Strength	IS 2542 (Part-2/Sec-4): 1981
130.		Taper Profile (Width)	IS 2095 (Part-1): 2011
131.		Taper Profile (Depth)	IS 2095 (Part-1): 2011
132.	Glazed Stoneware Pipes and Fittings (chemically Resistant Glazed Stoneware Pipes and Fittings)	General Quality	IS 3006:1979/ IS 651: 2007
133.		Hydraulic Test	IS 3006:1979/ IS 651: 2007
134.		Absorption Test	IS 3006:1979/ IS 651: 2007
135.		Test for acid resistance	IS 3006:1979/ IS 651: 2007
136.		test for alkali resistance	IS 3006:1979/ IS 651: 2007
137.		Crushing Strength Test	IS 651: 2007/ IS 3006:1979
138.		Internal Diameter	IS 651: 2007/ IS 3006:1979
139.		Thickness	IS 651: 2007/ IS 3006:1979
140.		Length & Straightness	IS 651: 2007/ IS 3006:1979
141.		Angle of Bend	IS 651: 2007/ IS 3006:1979

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
142.	Corrugated and Semi - Corrugated Asbestos Cement Sheets	Dimension (a) Length	IS 459: 1992
143.		Dimension (b) Width	IS 459: 1992
144.		Dimension(c) Thickness	IS 459: 1992
145.		Load Bearing Capacity	IS 5913:2003
146.		Impermeability	IS 459: 1992
147.		Frost Cracking	IS 459: 1992
148.		Density	IS 459: 1992
149.	Vitreous China sanitary appliance and product	Permissible Blemish and defects	IS 2556 PT 1:2021
150.		Crazing	IS 2556 PT 1:2021
151.		Water Absorption Test	IS 2556 PT 1:2021
152.		Modulus of rupture	IS 2556 PT 1:2021
153.		Chemical Resistance	IS 2556 PT 1:2021
154.		Resistance to Straining and Burning	IS 2556 PT 1:2021
155.		Lead Solubility Test	IS 2556 PT 1:2021
156.		Toilet Paper Test	IS 2556 PT 2:2004
157.		Smudge Test	IS 2556 PT 2:2004
158.		Holding Capacity Test	IS 2556 PT 2:2004
159.		Single Ball Test	IS 2556 PT 2:2004
160.		Fifty Ball Test	IS 2556 PT 2:2004
161.		Load Bearing Test	IS 2556 PT 2:2004. IS 2556 Pt-4 :2004 IS 2556 Pt-8 :2021 IS 2556 Pt-9:2004
162.		Saw Dust Test	IS 2556 PT 2:2004
163.		Splash Test	IS 2556 PT 2:2004



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials		
164.		Construction	IS 2556 Pt-6:2021 IS 2556 PT 2:2004 IS 2556 Pt-4 :2004 IS 2556 Pt-5 :1994 IS 2556 Pt-6:2021 IS 2556 Pt-8: 2021 IS 2556 Pt-9 :2004 IS 2556 pt-15:2004
165.		Finish	IS 2556 PT 1:2021 IS 2556 :2004 IS2556 Pt-3 :2004 IS2556 Pt-8 :2021 IS2556 Pt-15:2004
166.		Pattern and Sizes	IS 2556 Pt-4 :2004/ IS 2556 Pt-6 :2004
167.		Tap hole	IS 2556 Pt-4 :2004
168.		Waste hole	IS 2556 Pt-4 :2004
169.		Fixing arrangement	IS 2556 Pt-4 :2004
170.		Over flow Hole	IS 2556 Pt-4 :2004
171.		Pedestal	IS 2556 Pt-4 :2004
172.		Chain stay hole	IS 2556 Pt-4 :2004
173.		sizes	IS 2556 PT 5:1994
174.		Clean ability test	IS 2556 PT 6:2021
175.		Distortion and leakage test	IS 2556 PT 6:2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Laboratory Glassware		
1.	Laboratory glassware - Graduated measuring cylinders	Wall thickness	IS 878: 2008
2.		Overall Height	IS 878: 2008
3.		Stability	IS 878: 2008
4.		Base	IS 878: 2008
5.		Rim and spout	IS 878: 2008
6.		Neck and stopper	IS 878: 2008
7.	Glass beakers	Wall thickness	IS 2619: 2018
8.		Overall Height	IS 2619: 2018
9.		External Diameter	IS 2619: 2018
10.		Radius at base	IS 2619: 2018
11.	Laboratory glassware - Narrow - Necked boiling flasks	Wall thickness	IS 1381 Pt-1: 2003
12.		Overall Height	IS 1381 Pt-1: 2003
13.		External Diameter at neck	IS 1381 Pt-1: 2003
14.		Stability	IS 1381 Pt-1: 2003
15.		Dimension of base: - The radius at the junction between the base and the side of the flask	IS 1381 Pt-1: 2003
16.		Dimension of base: - Maximum external diameter	IS 1381 Pt-1: 2003
17.		Neck length	IS 1381 Pt-1: 2003
18.	Laboratory glassware - One - Mark volumetric flasks	Wall thickness	IS 915: 2012
19.		Overall Height	IS 915: 2012
20.		Neck and stopper	IS 915: 2012
21.		Shape Parameters	IS 915: 2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Laboratory Glassware		
22.		Graduation line parameters	IS 915: 2012
23.	Laboratory glass and plastics ware	Graduation and figuring parameters	ISO 384:1978
24.	Laboratory glassware -Single	Shape Parameters	IS 1117: 2018
25.	- Volume pipette	Bulb	IS 1117: 2018
26.		Top of pipette	IS 1117: 2018
27.		Delivery jet	IS 1117: 2018
28.		Delivery time	IS 1117: 2018
29.		Dimensions	IS 1117: 2018
30.		Wall thickness	IS 1117: 2018
31.		Graduation line parameters	IS 1117: 2018
32.	Laboratory glassware	Thermal shock resistance	ISO 718: 1990



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	Metallic Materials	Tensile Strength	IS 1608 PART 1:2022
2.		0.1 % Proof Stress	IS 1608 PART 1:2022
3.		0.2 % Proof Stress	IS 1608 PART 1:2022
4.		Yield Stress	IS 1608 PART 1:2022
5.		Elongation	IS 1608 PART 1:2022
6.		Bend Test	IS 1599-2019
7.		Guided Bend Test	IS 3589:2001
8.		Hardness Brinell	IS 1500 PART 1: 2019
9.		Hardness Vickers	IS 1501 PART 1: 2020
10.		Hardness Rockwell	IS 1586 Part I: 2018
11.		Ericson Cupping Test	IS 10175:2018
12.		Charpy V Impact Strength	IS 1757 Part-1: 2020
13.	Metallic Tube	Ductility Test	IS 2329: 2005
14.		Drift Expansion Test	IS 2335: 2005
15.		Crushing Test	IS 3601:2006
16.		Flattening Test	IS 2328: 2018
17.	Wrought Aluminium and Aluminium Alloy	Dimension And Tolerances (Length, Width, Thickness, Shearing Tolerance, Thickness Tolerance Squareness Tolerance)	IS 21:1992 / IS 737:2008/IS 2676:1981
18.	Tower Bolt Non-Ferrous	Dimension (Length of Bolt, Size, Length of Barrel, Width of Barrel, Length of Socket, Diameter of Bolt, Thickness of	IS 204 PART1:1991

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
		Steel Sheet for Barrel, Diameter of Socket)	
19.		Finish	IS 204 PART1:1991
20.	Tower Bolt Non-Ferrous	Dimension (Length of Bolt, Size, Length of Barrel, Width of Barrel, Length of Socket, Diameter of Bolt, Thickness of Steel Sheet for Barrel, Diameter of Socket)	IS 204 PART2:1992
21.	Non-Ferrous Metal Butt Hinges	(Dimension And Tolerance) Length, Breadth, Butt Dia., Pin Dia., Thickness of Flap, Number of Screw Hole	IS 205: 1992
22.		Knuckle provision	IS 205: 1992
23.		Screw Hole count	IS 205: 1992
24.	Tee And Strap Hinge	Dimension & Tolerance (Size, A, B, C, D, E, F, G, R)	IS 206: 2010
25.		No. Of Holes in Strap, No. Of Holes in Tee	IS 206: 2010
26.	Grey Iron Castings	Size Of Test Bar	IS 210: 2009
27.		Hydrostatic Test	IS 210: 2009
28.		Transverse Test	IS 210: 2009
29.	Galvanized Steel Strips and	Bend Test	IS 277: 2018
30.	Sheets (Plain and	Mass	IS 277: 2018
31.	Corrugated)	(Dimension And Tolerance of	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
		Plain Sheet) Length, Width, Thickness	IS 277: 2018
32.		(Dimension And Tolerance of Corrugated Sheet) Length, Depth, Pitch Of Corrugation, No. of Corrugation, Overall Width After Corrugation	IS 277: 2018
33.	Galvanized Steel Barbed Wire for Fencing	Size	IS 278: 2009
34.		Mass	IS 278: 2009
35.		Types	IS 278: 2009
36.		Ductility Test	IS 1755: 2018
37.	Mild Steel Wire for General Engineering	Sizes	IS 280: 2006
38.		Wrapping Test	IS 1755: 2018
39.		Bend Test	IS 280: 2006
40.	Free Cutting Brass Bars, Rods and Section	Size	IS 319: 2007, IS 2826: 1986
41.	High Tensile Brass Rods And Sections	Sizes And Tolerance	IS 320: 1980, IS 2826: 1980
42.	Copper	(Dimension & Tolerance) Length, Width, Thickness, Deviation From Straightness	IS 191: 2007
43.		Hydrogen Embrittlement	IS 191: 2007
44.	Leaded Brass Ingots and Casting	Size And Shape	IS 292: 1993
45.		Pressure Test	IS 292: 1993
46.		Freedom From Defects	IS 292: 1993

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
47.	Mild Steel Sliding Doorbolt for use with padlocks	Sizes	IS 281: 2009
48.		Dimension And Tolerances	IS 281: 2009
49.		Manufacture	IS 281: 2009
50.		Finish	IS 281: 2009
51.	Leaded Tin Bronze Ingots And simple shape Castings	Pressure Test	IS 318: 1981
52.		Shape	IS 318: 1981
53.		Size and Dimensions	IS 318: 1981
54.		Weight	IS 318: 1981
55.	Parliament Hinges	(Dimension And Tolerance) Length, Breadth, Butt Dia., Pin Dia., Thickness of Flap, Number of Screw Hole	IS 362: 1991
56.		Knuckle provision	IS 362: 1991
57.		Screw Hole count	IS 362: 1991
58.		Screw Hole diameter	IS 362: 1991
59.	Cold Rolled Brass Strip and foil	Thickness, Length, Width	IS 3052: 1986
60.	Mild Steel and Medium Tensile Steel Bar for Concrete Reinforcement	Size	IS 432 Part I: 1982, IS 1852: 1985.
61.		Mass per meter	IS 1732: 1989
62.	Mild Steel and Medium Tensile Steel Wire for	Size	IS 432 Part II: 1982
63.		Reverse Bend Test	IS 1716: 2023
64.	Cold Reduced Carbon Steel Sheet and Strip	Plastic Strain Ratio	IS 11999: 2022
65.		Tensile Strain Hardening Exponent	IS 15756: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
66.		Bake Hardening	IS 513 Part I: 2016
67.		Yield Point at Proof Stress	IS 513 Part I: 2016, IS 513 Part II: 2016
68.		Surface Finish	IS 15262: 2002
69.		Width, Length, Thickness	IS 16162: 2012
70.		Camber	IS 16162: 2012
71.		Out Of Squareness	IS 16162: 2012
72.	Copper Rod and bar for electrical Purpose	Specified Diameter, Width Across Flats or Thickness, Length, Corner radius, Straightness.	IS 613: 2000
73.	Wrought Aluminium and Aluminium Alloy Bar, Rod, Sections, Forging stock, Forgings, Sheet, Strip.	Size, Thickness, Width, Diameter, Distance, Concavity, Convexity, Straightness, Twist, Shearing Tolerance, Thickness Tolerance, Squareness Tolerance.	IS 3965: 1981, IS 734:1975, IS 2676: 1981
74.	Wrought Aluminum and aluminum Alloy wire	Wrapping Test	IS 1755: 2018
75.		Diameter, Width, Width Across Flat	IS 2525: 1982
76.	Hot Rolled steel Strips	Thickness, Width	IS 1029: 1970
77.	Hot rolled Carbon Steel Sheet Plate and strip	Thickness, Width, Length, Camber, Out of Squareness, Flatness.	IS 16160:2012
78.	Steel Tube for structural	Outside Dia, Thickness, Mass,	IS 1161:2014

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
	purpose	Straightness, Length.	
79.	Steel Tube	Outside Dia, Thickness, Length.	IS 1239 PART I: 2004
80.		Mass Of Tube	IS 1239 PART I: 2004
81.		Joints Thread	IS 1239 PART I: 2004/ IS 554
82.		Hydraustic Test	IS 1239 PART I: 2004
83.	Steel Butt Hinge	Number Of Knuckle, Number Of Screw Hole	IS 1341: 2018
84.		Pin Dia, Screw Hole, Length, Width, Thickness of Flap, Diameter of Hinge Pin.	IS 1341: 2018
85.	Hexagon Head Bolt (Product Grade C)	Dimensions	IS 1363 (Part 1): 2019
86.	Hexagon Head Bolt (Product Grade A & B)	Dimensions	IS 1364 (Part 1): 2018
87.	Hexagon Head Screw (Product Grade C)	Dimensions	IS 1363 (Part 2): 2018
88.	Hexagon Head Screw (Product Grade A & B)	Dimensions	IS 1364 (Part 2): 2018
89.	Hexagonal Nut (Product Grade C)	Dimensions	IS 1363 (Part 3): 2018
90.	Hexagonal Nut (Product Grade A & B)	Dimensions	IS 1364 (Part 3): 2018
91.	High Strength	Dimensions	IS 3757: 1985
92.	Structural Bolts	Finish	IS 3757 :1985
93.	Bolt, Screw and Nut	Thread Qualification by Thread Gauge	IS 1363 (Part 1): 2019. IS 1364 (Part 1): 2018,

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
			IS 1363 (Part 2): 2018, IS 1364 (Part 2): 2018, IS 1363 (Part 3): 2018, IS 1364 (Part 3): 2018
94.	Bolt, Screw and Stud	Tensile Test Under Wedge Loading	IS 1367 (Part 3): 2017
95.		Tensile test for finished bolts, screws and studs for determination of tensile strength, Rm	IS 1367 (Part 3): 2017
96.		Tensile test for bolts and screws with reduced load ability due to head design	IS 1367 (Part 3): 2017
97.		Proof load test for finished bolts, screws and studs	IS 1367 (Part 3): 2017
98.		Head soundness test	IS 1367 (Part 3): 2017
99.		Breaking Torque	ISO 898-7:1992
100.	Hexagonal Nut	Proof Load Test	IS 1367 (Part 6): 2018
101.	Cast Iron fitting for pressure pipes for watergas and sewage	Hydrostatic Test	IS 1538: 1993
102.		External Diameter, Internal Diameter, Depth of Socket, Wall Thickness, Flange Thickness.	IS 1538: 1993
103.	Mild steel Wire Coldheading	Mass	IS 1538: 1993
104.	Quality	Coating	IS 1538: 1993

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
105.		Reverse Torsion Test	IS 1673: 1984
106.		Crushing Test	IS 1673: 1984
107.		Diameter	IS 1673: 1984
108.	High Strength Deform Steel	Nominal Size	IS 1786: 2008
109.	Bars and wire for concrete	Mass Per Meter	IS 1786: 2008
110.	Reinforcement	Tensile Strength / Yield Strength Ratio (Calculated)	IS 1786: 2008
111.		Rib Area	IS 1786: 2008
112.		Cross-sectional Area, Effective Cross-sectional Area	IS 1786: 2008
113.		Pull Out Test: Length of Slip, Maximum Load at failure, Bond Stress	IS 2770 Part I: 1968
114.		Bend Test	IS 1786: 2008
115.		Rebend Test	IS 1786: 2008
116.	Aluminium alloy milkcan	Capacity	IS 1825: 1983
117.		Dimension (A, B, C, D, E, F, G, H), Handle dimensions, Bottom Bead Dimensions, Thickness, Lid dimensions	IS 1825: 1983
118.		Air Pressure Test	IS 1825: 1983
119.		Drop Test	IS 1825: 1983
120.	Copper Strip for electrical purpose	Width, Thickness, Straightness, Radius on edge	IS 3052: 1986, IS 1897: 2008
121.		Edgewise Bending	IS 1897: 2008



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
122.	Cold Reduced Tin mill Products	Thickness, Feathered Edge, Width, Length, Edge Camber, Out of Squareness, Edge Wave, Longitudinal and Transverse Bow, Center Fullness, Thickness of Joint, Overlap.	IS 1993: 2018
123.	Hot Rolled Medium and high Tensile Structural Steel	Dimension (Longer Leg, Shorter Leg, Flange Width, Depth, Radius at Filt, Radius at Toe, Thickness of Web, Thickness of Leg, Thickness of Flange, Width of Flat, Width of Plate, Thickness of Sheet, Thickness of Strip, Diameter of Round, Width of Square Section, Ovality)	IS 808:2021, IS 1730: 1989, IS 1732: 1989
124.		Mass	IS 808:2021, IS 1730: 1989, IS 1732: 1989
125.	Carbon Steel Cast Billet, Ingots, Billet, Blooms and slab	Bend	IS 2830: 2012, IS 2831: 2012
126.		Width, Length, Diameter, Thickness, Camber	IS 2830: 2012, IS 2831: 2012
127.	Steel Chequered Plates	Length, Width, Thickness,	IS 3502:2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
		Chequered Height	
128.	Steel Pipe for water and sewage	Hydraustic Pressure Test	IS 3589: 2001
129.		Outside Diameter, Thickness, Height of Internal Weld, Ovality, Straightness, Random Length, Joints and End.	IS 3589: 2001
130.	Steel Tube for mechanical and general engineering Purpose	Thickness, Length, Outside Diameter, Straightness	IS 3601:2006
131.	Steel Tube Used for water Wells	Outside Diameter, Thickness, Length, Straightness	IS 4270: 2001
132.		Weight	IS 4270: 2001
133.		Hydraustic Test	IS 4270: 2001
134.		Straightness	IS 4270: 2001
135.		Tube End	IS 4270: 2001
136.		Protective Coating	IS 4270: 2001
137.		Alignment Test	IS 4270: 2001
138.		Protection Of End	IS 4270: 2001
139.	Hollow steel section for structural use	Outside Dimension of Sides, Thickness, Length, Height of Internal Lining, Radius of Corner, Concavity/Convexity, Twist, Straightness.	IS 4923: 2017
140.		Weight	IS 4923: 2017
141.	Flush Bolts	Dimension, Length, Width,	IS 5187: 1972

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
		Thickness, Throw Bolt, Bolt Dia, Lip Extension, Thickness, Screw hole size	
142.		Number Of Screw Holes (Count)	IS 5187: 1972
143.	Stainless Steel sheet and strips for utensils	Length, Width, Thickness, Flatness, Camber.	IS 5522: 2014
144.	Stainless Steel Wire Rod	Diameter, Out of Roundness	IS 6527: 1995
145.	Stainless Steel Bar and Flat	Dimension (Width, Thickness, Length, Size, Straightness)	IS 6603:2001
146.	Stainless Steel Plate, Sheet and Strip	Corrosion test	IS 10461: 1994
147.		Dimension (Width, Thickness, Length, Flatness, Camber)	IS 6911:2017
148.	Mild Steel Wire Rod for General Purposes	Dimension (Diameter, Out Of Shape)	IS 7887: 1992
149.	Centrifugally cast (Spun) ductile iron pressure pipes for water, gas and sewage	Dimension (Length, Internal Dia, External Dia, Wall Thickness, Ovality, Nominal Dia, Dimension (D, E, C, B, F, A, S)	IS 8329: 2000
150.		Hydrostatic Test	IS 8329: 2000
151.		Coating Test	IS 8329: 2000
152.		Internal Lining	IS 8329: 2000
153.		Bituminous Coating	IS 8329: 2000



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
154.	Steel tubes for idlers for belt conveyors	Dimension (Outer Dia, Thickness, Length, Eccentricity, Ovality, Straightness)	IS 9295: 1983
155.		Mass	IS 9295: 1983
156.	Ductile iron fittings for pressure pipes for water, gas and sewage	Dimension (Length, Outer Dia, Thickness, Length, Ovality, External Coating of Internal Lining, Wall Thickness, Dimensions (D, E, C, B, F, A, S, D Sizes)	IS 9523: 2000
157.		Coating Test	IS 9523: 2000
158.		Internal Lining	IS 9523: 2000
159.		Bituminous Coating	IS 9523: 2000
160.		Hydrostatic Test	IS 9523:2000
161.	Threaded steel fasteners- Step bolts for steel structures	Dimensions	IS 10238: 2001
162.		Angle	IS 10238: 2001
163.		Thread Qualification by Thread Gauge	IS 10238: 2001
164.		Cantilever Test	IS 10238: 2001
165.	Hot rolled steel narrow width strip for welded tubes and pipes	Thickness, Width, Length, Camber, Out of Squareness, Flatness.	IS 15647: 2006
166.	Hot rolled carbon steel strip for cold rolling purposes	Crown, Width Variation, Edge Camber	IS 11513: 2017
167.		Dimension (Length, Width,	IS 1730:1989



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
		Thickness)	
168.	Continuously pre-painted galvanized steel sheets and coils	Pencil Hardness Test	IS 14246: 2013
169.		Impact Resistance Test	IS 14246: 2013
170.		Cross Hatch Test	IS 14246: 2013
171.		Corrosion Resistance	IS 9844: 1981
172.		Gloss	IS 101 PART4 / SEC 4 :2020
173.		Mass	IS 14246: 2013
174.		Length, Width, Thickness, Squareness, Camber, Flatness	IS 14246: 2013
175.	Copper tubes for plumbing	Dimension (Mean Outside Dia, Mean Wall Thickness, Ovality, Out of Roundness, Eccentricity)	IS 14810: 2000
176.		Hydrostatic Test	IS 14810: 2000
177.	Stainless Steel Tower Bolts	Length Of Bolt, Size, Length of Barrel, Width of Barrel, Length of Socket, Dia of Bolt, Thickness of Steel Sheet for Barrel, Dia of Socket	IS 15833: 2008
178.		No Of Screw Hole Barrels	IS 15833: 2008
179.	Low nickel austenitic stainless-steel sheet and strip for utensils and kitchen appliances	Length, Width, Thickness, Flatness, Camber.	IS 15997: 2012
180.	Hot dip aluminium -Zinc alloy metallic coated steel strip and sheet (Plain)	Dimension (Length, Width, Thickness, Internal Diameter, Camber, Squareness, Flatness)	IS 15961: 2012, IS 16163: 2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
181.		Mass	IS 15961: 2012
182.		Coating Test	IS 15961: 2012



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/ Safety Test		
1.	Low Pressure Regulator for Use with Liquefied Petroleum Gas (LPG)	(Construction And Workmanship) (Parameters)	IS 9798:2013, CL.5.1
2.		Interchangeability	IS 9798:2013, CL.5.3
3.		Soundness Test: Pneumatic Test at 17 kgf/Cm ² , Pneumatic Test at 150 gf/cm ² , Hydrostatic Test 25.4 kgf/cm ²	IS 9798:2013, CL.6.1 to 6.4.
4.		Outlet Connection dimensions	IS 9798:2013, Fig. 2A and 2B.
5.		Chatter	IS 9798:2013, CL. 8.2
6.		Performance Test	IS 9798:2013, CL. 8.9.1 and 8.9.2
7.		Inlet Pressure 17 (Kgf/Cm ²) And Lock Up	IS 9798:2013, 8.6 and 8.7
8.		Mechanical Strength of Connections	IS 9798: 2013.CL. 5.11
9.		Corrosion Test	IS 9844: 1981
10.		Cycle Test	IS 9798:2013, CL. 8.10.1
11.		High Temperature Test	IS 9798:2013, CL. 8.10.3
12.		Low Temperature Test	IS 9798:2013, CL. 8.10.2
13.		Test For Adhesion of Paint	IS 9798:2013, CL. 4.2.1- ANNEX B.
14.		Immersion Test	IS 9798:2013, 4.3.5 and 4.2.2
15.		Compression Set Test for Valve Pad Material, Seal and Diaphragm	IS 9798:2013, CL. 4.3.7 and 4.4.5 ANNEX E
16.		Regulator Inlet Sealing Test	IS 9798:2013, Amendment 3: 2022.

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Performance/Durability/ Safety Test		
17.	Domestic Pressure Cooker	Capacity	IS 2347:2017
18.		Air Pressure Test	IS 2347:2017
19.		Proof Pressure Test	IS 2347:2017
20.		Operating Test for Pressure Regulating Device	IS 2347:2017
21.		Test For Safety, Pressure Relief Device	IS 2347:2017
22.		Bursting Pressure Test	IS 2347:2017
23.		Test For Removal of Lid Under Pressure	IS 2347:2017
24.		Test For Loaded Spring Mechanism	IS 2347:2017
25.		Resistance To Burning	IS 13395: 2021
26.		Heat Resistance	IS 13395: 2021
27.		Torque Strength	IS 13395: 2021
28.		Bending Strength	IS 13395: 2021
29.		Fatigue Resistance	IS 13395: 2021
30.		Thermal Insulation Test	IS 13395: 2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Sub Assembly/ Ancillaries/ Accessories		
1.	Copper Alloy Gate, Globe and check Valves for water work purpose	Nominal Size, Diameter, Width, Thickness	IS 778: 1984
2.		Thread Size	IS 554: 199, IS 8999: 2003
3.		Body Test, Back Seat Test, Seat Test	IS 778: 1984
4.		Visual observation of Design and Manufacturer feature	IS 778: 1984
5.	Square tin	Capacity	IS 916: 2000, IS 10325: 2000
6.		Material (Visual)	IS 916: 2000, IS 10325: 2000
7.		Visual observation of Manufacture	IS 916: 2000, IS 10325: 2000
8.		Air Pressure Test	IS 916: 2000, IS 10325: 2000
9.		Handle Pull Test	IS 916: 2000, IS 10325: 2000
10.		Length, Width, Height, Thickness, Diameter.	IS 916: 2000, IS 10325: 2000
11.	Open Jaw Wrenches (Spanner)	Dimension (A, B, S, L, S1, S2, B1, B2)	IS 2028: 2004
12.		Angle	IS 2028: 2004
13.		Torque Test	IS 6131: 1980
14.	Ring Wrenches (Spanner)	Dimension (A1, A2, B1, B2, H, L, S1, S2)	IS 2029: 1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Sub Assembly/ Ancillaries/ Accessories		
15.		Angle	IS 2029:1998
16.	Pliers, Pincers and Nippers	Cutting Test	IS 2615 (Part 2): 2023
17.		Tube Gripping Test	IS 2615 (Part 2): 2023
18.		Shock Test	IS 2615 (Part 2): 2023
19.		Torsion Test	IS 2615 (Part 2): 2023
20.		Handle load Test	IS 2615 (Part 2): 2023
21.	Combination sidecutting Plier	Bend Test	IS 3650: 1981
22.		Cutting Test	IS 3650: 1981
23.		Tube Gripping Test	IS 3650: 1981
24.		Shaw Test	IS 3650: 1981
25.		Torsion Test	IS 3650: 1981
26.		Handel Load Test	IS 3650: 1981
27.		Insulation Test	IS 3650: 1981
28.	Sterilizer Shallow (Dressing Drum)	Dimension (A, B, C, D, N, Overall, Dia, Overall, Height, Thickness	IS 3831: 1979
29.		Test (as per standard)	IS 3831: 1979
30.	Open Ended Slugging Wrenches (Spanners)	Dimension (A1, A2, B, S, L)	IS 4508: 1992
31.		Angle	IS 4508: 1992
32.	Ring Slugging Wrenches Panel	Dimension (A1, A2, B, S, L)	IS 4509: 1992
33.		Angle	IS 4509: 1992
34.	Indicating Bolts for using public baths Lavatories	Dimension (A, B, C, D, E, F, G, H, J, K, L, M, P, Q, R, S, T1, T2, T3, U), Nominal Sizes	IS 4621: 1975



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Sub Assembly/ Ancillaries/ Accessories		
35.	Single ended open jaw adjustable wrenches	Dimension (Nominal Size, L, S, A, B, T, D, Maximum Opening)	IS 6149: 1984
36.		Angle	IS 6149: 1984
37.		Longitudinal And Transverse Play of Adjustable Jaw	IS 6149: 1984
38.		Torque	IS 6149: 1984
39.	General Purpose Ball Valves	Nominal Size, End Connections, Flange Dimension, Outside diameter of sealing Face, Face to face dimensions.	IS 9890: 1981
40.		Shell Test	IS 6157:1981
41.		Seat Test	IS 6157:1981
42.		Hydrostatic Test	IS 6157:1981
43.	Galvanized Steel Chain Link Fence Fabric	Mesh size, Width, Length, Diameter of wire.	IS 2721: 2003
44.		Mesh angle	IS 2721:2003
45.		Twist Test	IS 1717: 2018
46.		Bend Test	IS 2721: 2003

