

Laboratory	APEX Assessment Labs Private Limited, Plot No. 7, Anand Industrial Estate, Mohan Nagar, Ghaziabad, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	17.12.2013
Certificate Number	T-1634	Valid Until	16.12.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. BUILDING MATERIALS				
1.	Cement Concrete Cube	Compressive strength	IS: 516 1959 (RA 2008)	5 N/mm ² to 45 N/mm ²
2.	Burnt Clay, Fly Ash, Building Bricks	Compressive strength	IS: 3495 - (P-1) 1992 (RA 2011)	5 N/mm ² to 45 N/mm ²
		Water absorption	IS: 3495 - (P-2) 1992 (RA 2011)	Upto 40 %
		Efflorescence	IS: 3495 - (P-3) 1992 (RA 2011)	Visual
		Dimensions	IS: 1077 -1992 (RA 2011)	5 mm to 5000 mm
3.	Cement Concrete Flooring/ Ceramic Tiles	Water absorption	IS: 1237 - 1980 (RA 2011)	0.10% to 25%
		Transverse strength	IS: 1237 - 1980 (RA 2011)	4 N/mm ² to 8 N/mm ²
		Modulus of rupture	IS: 13630 (P-6)- 2006 (RA 2011)	5 N/mm ² to 45 N/mm ²
		Dimension	IS: 1237 - 2012 (RA 2011) IS: 13801-1993 (RA 2011)	Length : 1 to 1000 mm Width : 1 to 1000 mm Thickness : 0.1 to 25 mm
4.	Stone/Stone Slabs & Tiles/ Granite/ Marble Blocks, Slabs & Tiles	Specific gravity	IS: 1124-1974	1.0 to 5.0
		Water absorption	IS: 1124-1974	0.50% to 25 %
		Compressive strength	IS: 1121 (P-1)-2013	1.0 N/mm ² to 45 N/mm ²

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5.	Aggregate for Concrete (Course & Fine)	Sieve analysis	IS: 2386 (P-1)-1963 (RA 2011)	75 micron to 63 mm
		Flakiness Index	IS: 2386 (P-1)-1963 (RA 2011)	1% to 60%
		Elongation Index	IS: 2386 (P-1)-1963 (RA 2011)	1% to 60%
		Specific Gravity	IS: 2386 (P-3)-1963 (RA 2011)	1 to 5.0
		Water absorption	IS: 2386 (P-3)-1963 (RA 2011)	0.5% to 25%
		Bulk density and Void	IS: 2386 (P-3)-1963 (RA 2011)	1 kg/l to 5 kg/l
		Crushing value	IS: 2386 (P-4)-1963 (RA 2011)	1 % to 60%
		Impact Value	IS: 2386 (P-4)-1963 (RA 2011)	1% to 60%
6.	Cement (OPC/PPC)	Fineness (Blain permeability method)	IS: 4031 (P-2)-1999 (R 2008)	100 m ² /kg to 500 m ² /kg
		Soundness (By Le-Chatlier)	IS: 4031 (P-3)-1988 (R 2009)	0.5 mm to 20 mm
		Soundness (Autoclave)	IS: 4031 (P-3)-1988 (R 2009)	0.1% to 5.0%
		Setting time	IS: 4031 (P-5)-1988 (R 2009)	10 min to 650 min
		Compressive strength	IS: 4031 (P-6)-1988 (R 2009)	10 N/mm ² to 60 N/mm ²

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7.	Ply Wood for General Purpose	Moisture content	IS: 1734 (P-1)-1983 (RA 2008)	1% to 5.0 %
		Density	IS: 1734 (P-1)-1983 (RA 2008)	100 kg/m ³ to 1000 kg/m ³
		Adhesion of piles	IS: 1734 (P-5)-1983 (RA 2008)	Visual
		Water resistance	IS: 1734 (P-6)-1983 (RA 2008)	Visual
		Mycological test	IS: 1734 (P-7)-1983 (RA 2008)	Visual
		Static bending strength -MOR	IS: 1734 (P-11)-1983 (RA 2008)	10 N/mm ² to 80 N/mm ²
		-MOE	IS: 1734 (P-11)-1983 (RA 2008)	2500 to 10000 N/mm ²
8.	Door Shutters	Dimensions and squareness	IS: 4020 (P-2)-1998 (RA 2008)	10 mm to 3000 mm
		End immersion test	IS: 4020 (P-13)-1998 (RA 2008)	Visual
		Knife test	IS: 4020 (P-14)-1998 (RA 2008)	Visual
		Glue adhesion test	IS: 4020 (P-15)-1998 (RA 2008)	Visual
		Screw withdrawal resistance test	IS: 4020 (P-16)-1998 (RA 2008)	200 N to 20000 N

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II. METAL & METAL PRODUCTS				
1.	Ferrous and Non Ferrous Metals	Tensile strength	IS: 1608-2005 (RA 2006)	1 kN to 500 kN Load LC: 0.01 kN
		Yield stress	IS: 1608-2005 (RA 2006)	1 kN to 500 kN Load LC: 0.01 kN
		Elongation %	IS: 1608-2005 (RA 2006)	Up to 40 %
		Rockwell Hardness (HRC)	IS: 1586-2000 (RA 2006)	30 to 70 (LC: 1 HRC)
		Bend test	IS: 1599-2012 (RA 2006)	Upto 128 mm Mandrel Dia
		Re-bend test	IS: 1786-2008 (RA 2008)	Upto 128 mm Mandrel Dia
		Rockwell Hardness (HRB)	IS: 1586-2000 (RA 2006)	20 to 100
		Mass	IS: 1786-2008 (RA 2008)	Upto 25 kg/m
2.	Steel Pipe & Tube	Flattening test	IS: 2328-1983 (RA 2001)	50 mm to 200 mm N.B.
3.	Helical Springs	Load test in compression	IS: 7906 (P-2) -1975 (RA 2004)	1 kN to 500 kN Load LC: 0.01 kN
		Load test in tension	IS: 7907 (P-2) -1976 (RA 2004)	1 kN to 500 kN Load LC: 0.01 kN

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