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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. BU	ILDING MATERIA	LS		
1.	CEMENT 33 GRADE OPC 43 GRADE OPC	Setting Time	IS 4031 (Part 5)-88 RA 2009, Amd. 1	10 to 700 min
	43S GRADE OPC 53 GRADE OPC 53 S GRADE OPC	Standard Consistency	IS 4031 (Part 4)-88 RA 2009, Amd. 1	Upto 50%
	PORTLAND SLAG CEMENT	Fineness by Specific Surface	IS 4031 (Part 2)-99 RA 2008, Amd. 1	200 to 500 m <sup>2</sup> /kg
	PORTLAND POZZOLANA CEMENT FLY	Soundness by Le – Chatelier Method	IS 4031 (Part 3)-88 RA 2009, Amd. 1	0.5 mm to 15 mm
	ASH AND CALCINED CLAY BASED	Soundness by Autoclave	IS 4031 (Part 3)-88 RA 2009, Amd. 1	-0.001 to 2%
	PORTLAND WHITE CEMENT	Compressive Strength	IS 4031(Part 6)-88 RA 2009, Amd. 3	0.5 to 80 N/mm <sup>2</sup>
		Density	IS 4031 (Part 11)-88 RA 2009	2.0 to 3.5 g/cc
		Drying Shrinkage	IS 4031 (Part 10)-88 RA 2009	0.01 to 2%

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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
2.	FLY ASH PULVERIZED FUEL ASH FOR USE AS POZZOLANA IN	Fineness –Specific Surface by Blaine's permeability method	IS 1727-1967, RA 2008, Amd. 1	$200~to~800~m^2\!/~kg$
	CEMENT, CEMENT MORTAR AND CONCRETE	Lime reactivity- Average Compressive Strength	IS 1727-1967, RA 2008, Amd. 1	0.5 to 15 N/mm <sup>2</sup>
	FOR USE AS ADMIXTURE IN CEMENT	Compressive Strength 28 days	IS 1727-1967, RA 2008, Amd. 1	Up to 120%
	MORTAR AND CONCRETE	Particles retained on 45 micron IS Sieve (wet sieving)	IS 1727-1967, RA 2008, Amd. 1	Up to 100%
		Soundness by autoclave test	IS 1727-1967, RA 2008, Amd. 1	-0.01 to 2 %
3.	CEMENT CONCRETE FLOORING TILES CHEQUERED CEMENT CONCRETE TILES PRECAST CONCRETE BLOCKS FOR PAVING	Water Absorption	IS 1237-80, RA 2011, Amd. 3 IS 13801-1993, RA 2011, Amd. 1 to 4 IS 15658-2006, RA 2011	1 to 30 %

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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
		Wet Transverse Strength	IS 1237-80, RA 2011, Amd. 3 IS 13801-1993, RA 2011, Amd. 1to4	0 to 15 N/mm <sup>2</sup>
		Resistance to Wear	IS 1237-80, RA 2011, Amd. 3 IS 13801-1993, RA 2011 Amd. 1to 4 IS 15658-2006, RA 2011	0.1 to 30 mm
		Dimensions	IS 1237-80, RA 2011, Amd. 3 IS 13801-1993, RA 2011 Amd. 1to 4 IS 15658-2006, RA 2011	1 to 300 mm
4.	AGGREGATES COARSE AND FINE	Size and Grading	IS 2386 (1) - 63, RA 2011, Amd. 4	Upto 100%
		Deleterious Materials &	IS 2386 (2) – 63, RA 2011,	Upto 25%
		Organic Impurities Soundness of Aggregates Crushing Value	Amd. 1 IS 2386 (5) – 63, RA 2011, IS 2386 (4) – 63, RA 2011, Amd. 3	Upto 30 % Upto 50 %
		Impact value	IS 2386 (4) -63, RA 2011, Amd. 3	Upto 50 %
		Abrasion value ( by los Angeles)	IS 2386 (4) -63, RA 2011, Amd. 3	Upto 70 %
		Water absorption	IS 2386 (3) -63, RA 2011	Upto 30 %

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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
		Bulking of Fine Aggregate	IS 2386 (3) – 63, RA 2011	Upto 50 %
		Flakiness Index and Elongation Index	IS 2386 (1) – 63, RA 2011 Amd. 4	Upto 80 %
5.	COMMON	Water Absorption	IS 3495 (2) –92, RA 2011	1 to 30 %
	BURNT CLAY BUILDING	Compressive Strength	IS 3495 (1) –92, RA 2011	$0.5 \text{ to } 80 \text{ N/mm}^2$
	BRICKS PULVERIZED	Efflorescence	IS 3495 (3) –92, RA 2011	Visual
	FUEL ASH – LIME BRICKS	Dimensions	IS 1077 –92, RA 2011, Amd. 1 IS 12894 -02, RA 2012, Amd. 1	Upto 5000 mm
6.	CEMENT CONCRETE CUBES, CORES AND PAVING BLOCKS	Compressive Strength	IS 516-1959, RA 2008, Amd. 2 IS 15658-2006, RA 2011	0.5 to 80 N/mm <sup>2</sup>
7.	INTEGRAL	Permeability to Water	IS 2645 –2003, RA 2009	1 ml to 1000 ml
	WATER PROOFING	Compressive Strength	IS 516-59, RA 2008, Amd. 2	$0.5 \text{ to } 100 \text{ N/mm}^2$
	COMPOUNDS	Setting Time	IS 4031 (5) - 88, RA 2009, Amd. I	Upto 700 min
8.	WATER FOR	Compressive Strength	IS 516-59, RA 2008, Amd. 2	0.5 to 80 N/mm <sup>2</sup>
	CONSTRUCTION	Setting Time	IS 4031 (5) – 88, RA 2009 Amd. I	Upto 600 min

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PLY WOOD

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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
9.	TIMBER PANELLED MATERIALS			
	BLOCK BOARDS, PLAIN PARTICLE BOARDS	Dimensional Changes Caused By humidity	IS 1659-2004, RA 2009, Amd. 2	0 to 50 mm (t) 0 to 200 mm (l)
	PRE – LAMINATED PARTICLE	Resistance to Water	IS 1659-2004, RA 2009 Amd. 2	20 to 99°C
	BOARDS, MEDIUM DENSITY	Water Resistance test	IS 1328 -96, RA 2009 Amd. 6	20 to 99 °C
	FIBRE BOARDS, PRE-LAMINATED MEDIUM DENSITY FIBRE BOARDS, PLY WOOD, TIMBER	Moisture Content	IS 1734 (1) -83, RA 2008 IS 2380 (3) -77, RA 2008 Amd. 4; IS 1708 (1)-86, RA 2010 IS 287-93, RA 2008	1 to 35 %
	WOODEN FLUSH DOORS MARINE PLY WOOD, SHUTTERING PLY, DECORATIVE LAMINATE, VENEERED DECORATIVE	Spot test	IS 1659 -2004, RA 2009 Amd. 2	Upto 20 mm

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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
		Modulus of Rupture and Modulus of Elasticity	IS 2380 (4) -77, RA 2008 Amd. 4	5 to 150 N/ mm <sup>2</sup>
			IS 1734 (11) –83, RA 2008 IS 1659 -2004, RA 2009 Amd. 2	500 to 15000 N/ mm <sup>2</sup>
		Dimensions	IS 2380 (2) – 77, RA 2008 Amd. 1 IS 12049 –87, Amd. 3 IS 4020 (2) –98, RA 2008 Amd. 2 IS 2046-95, RA 2010, Amd. 1	1 to 2500 mm
		Density	IS 2380 (3) -77, RA 2008 Amd. 4 IS 1734 (1) -83, RA 2008	$100 - 1000 \text{ kg} / \text{m}^3$
		Linear Expansion and thickness Swelling (Swelling in water) Swelling in thickness due to surface absorption	IS 2380 (17) -77, RA 2008 Amd. 4	0 to 50 mm (t) 0 to 300 mm(1)
		Tensile Strength Perpendicular to Surface / internal bond	IS 2380 (5) – 77, RA 2008 Amd. 4	$0 \text{ to } 5 \text{ N/ mm}^2$
		Screw withdrawal Strength	IS 2380 (14) – 77, RA 2008 Amd. 4 IS 4020 (16) –98, RA 2008 Amd. 2	10 to 5000 N

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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
		Surface Abrasion Resistance	IS 12823 – 1990, RA 2009 Amd. 7 IS 14587 –98, RA 2009 Amd. 5 IS 2046 –95, RA 2010 Amd. 1	1 to 3000 Revolutions
		Resistance to Steam	IS 12823 – 1990, RA 2009 Amd. 7 IS 14587 –98, RA 2009 Amd. 5 IS 2046 –95, RA 2010 Amd. 1	0.5 to 35 mm
		Resistance to crack	IS 12823 – 1990, RA 2009 Amd. 7 IS 14587 –98, RA 2009 Amd. 5 IS 2046 –95, RA 2010 Amd. 1	0.5 to 35 mm
		Resistance to cigarette Burn	IS 12823 – 1990, RA 2009 Amd. 7 IS 14587 –98, RA 2009 Amd. 5 IS 2046 –95, RA 2010 Amd. 1	0.5 to 35 mm

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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
		Water Absorption	IS 2380 (16) -77, RA 2008 Amd. 4	0.1 % to 95 %
		Surface defects & Surface quality	IS 2046 –95, RA 2010, Amd. 1 IS 303 –1989, RA 2008 Amd. 6 IS 1328 –96, RA 2011, Amd. 6 IS 710 –1976, RA 2010	0.5 to 20 mm
		Glue Shear Strength Test	IS 1734 (4) – 83, RA 2008 Amd. 3	Upto 10 kN
		Resistance to Staining	IS 12823 –1990, RA 2009 Amd. 7 IS 2046 –1995, RA 2010 Amd. 1 IS 14587 – 1998, RA 2009 Amd. 5	0.5 to 35 mm
		Mycological Test	IS 1659 –2004, RA 2009 Amd. 2 IS 1734 (7) – 83, RA 2008 Amd. 1	1 to 150 mm
		Adhesion of Plies (Knife test)	IS 1659 –2004, RA 2009 Amd. 2 IS 4020 (14) – 98, RA 2008 Amd. 1 IS 1734 (5) – 83, RA 2008	3 to 40 mm

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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
		Tensile Strength	IS 1734 (9) – 83, RA 2008	5 to 100 N/ mm <sup>2</sup>
		Slamming Test	IS 4020 (10) – 98, RA 2008	450 to 1000 mm
		Local plainness	IS 4020 (4) – 98, RA 2008 Amd. 2	0 to 10 mm
		Impact Indentation	IS 4020 (4) – 98, RA 2008 Amd. 2	0 to 10 mm
		Glue Adhesion Test	IS 4020 (15) – 98, RA 2008 Amd. 2	0 to 150 mm
		End Immersion Test	IS 4020 (13) – 98, RA 2008 Amd. 2	Upto 1000 mm
		General Flatness	IS 4020 (3) – 98, RA 2008 Amd. 2	0 to 10 mm
		Flexure Test	IS 4020 (6) – 98, RA 2008 Amd. 2	0 to 100 mm
		Edge loading test	IS 4020 (7) – 98, RA 2008 Amd. 2	0 to 25 mm
		Shock Resistance test	IS 4020 (8) – 98, RA 2008 Amd. 1	Upto 50 N and 300 N
		Buckling test	IS 4020 (9) – 98, RA 2008 Amd. 2	0 to 100 mm

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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
		Misuse test	IS 4020 (11) – 98, RA 2008 Amd. 2	Upto 200 N
		Resistance to Immersion in Boiling water	IS 2046 – 95, RA 2010, Amd. 1	0.1 to 12 mm
		Dimensional Stability at deviated temperature	IS 2046 – 95, RA 2010, Amd. 1	0.1 to 200 mm
		Resistance to Dry heat at 180°C	IS 2046 – 95, RA 2010, Amd. 1	0.5 to 10 mm
		Resistance to Impact By small dia ball	IS 2046 – 95, RA 2010, Amd. 1	0.5 to 10 mm
		Resistance to Scratching	IS 2046 – 95, RA 2010, Amd. 1	0.5 to 10 mm
10.	SOIL	Sieve Analysis	IS 2720 (Part 1):1983, RA 2010	Upto 100%
		Atterberg Limits:- a) Liquid Limit b) Plastic Limit	IS 2720 (Part 5):1985 RA 2010	5 to 50 % 5 to 50 %
		Particle Size Analysis	IS 2720(Part 4):1985, RA 2010	Upto 100 %
		Moisture Content	IS 2720(Part 2):1973, RA 2010 Amd. 1	0.1 to 50 %
		California Bearing Ratio (CBR)	IS 2720 (Part 16):1987, RA 2011	1 to 200

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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
		Optimum Moisture Content and Dry Density:-		
		a) Light Compaction	IS 2720 (Part 7):1980, RA 2011 Amd. 2	0.5 to 3 g/cc
		b)Heavy Compaction	IS 2720 (Part 8):1983 RA 2010	0.5 to 3 g/cc
11.	HARDENED CONCRETE	Ultrasonic Testing	IS: 1331 (Part 2): 1992, RA 2008	Upto 10000 m/sec
12.	WOODEN FLUSH DOORS	Varying Humidity Test	IS 4020 (Part 12):1998, RA 2008 Amd. 2	0 to 10 mm
13.	PRESSED	Water Absorption	IS 13630 (Part 2):2006, RA 2011	0 to 30%
	CERAMIC TILES	Modulus of Rupture/ Breaking Strength	IS 13630 (Part 6):2006, RA 2011	0 to 60 N/mm <sup>2</sup>
		Scratch Hardness of Surface (Mohs Scale)	IS 13630 (Part 13):2006, RA 2011	1 to 9 on Mohs Scale
		Chemical Properties	IS 13630 (Part 7):2006, RA 2011/ IS 13630 (Part 8):2006, RA 2011	Visual Examination
		Crazing Resistance	IS 13630 (Part 9):2006 RA 2011	Visual Examination

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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
II. RI	UBBER & RUBBER	PRODUCTS		
1.	RUBBER	Hardness	By Durometer Method ASTM –D 2240 -05 IS 3400(Part-1) –1987, RA 2004	35 to 95 Shore A
		Tensile Strength	IS 3400(Part-1) –1987, RA 2004	5 to 30 N/mm <sup>2</sup>
		Elongation	IS 3400(Part-10) -1977, RA2003	Upto 900%
		Compression set	IS 1964 –2001, RA 2000	Upto 60%
III. T	EXTILES & RELAT	FED PRODUCTS		
1.	Textiles	Weight	IS 1963-1981, RA 2004	Upto 250 gm/m <sup>2</sup>
		Threads per unit length in woven fabric (Ends, Picks)	IS 1969-1985, RA 2006	Upto 100 /cm
		Breaking load	IS 1954-1990, RA 2004	Upto 2000 N
		Length & width of fabric	IS 1954-1990, RA 2002	Upto 700 cm
IV. P	APER & PAPER PR	CODUCTS		
1.	PAPER	Gloss/ Opacity Brightness	IS 1060 (Part 1&2)1966 RA 2004, Amnd 5, 2011	0 to 100%
		One Minute Cobb test for water penetration	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	Upto 90
		Tensile Index	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	Upto 100 Nm/g

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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
		Moisture Content	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	Upto 50 %
		Surface Strength Dennison	IS 1060 (Part 3) 1966 RA 2004, Amnd 5, 2011	2A to 22 A wax picks (Qualitative)
		Ash content	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	Upto 50%
		Weight	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	Upto 400 GSM
		Thickness	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	10 to 500 micron
		Stiffness (Taber stiffness)	IS 1060 (Part 3) 1966 RA 2004, Amnd 5, 2011	0.5 Min.
		Tear Index	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	$0.5$ to $20 \text{ mNm}^2/\text{g}$
		Bursting Strength	IS 1060 (Part 1) 1966 RA 2004, Amnd 5, 2011	20 kg/cm <sup>2</sup> (Max)
		Double fold (Folding endurance tester)	IS 1060 (Part 1) 1966 Amd. 5, 2011	Upto 100 Nos.
		Smoothness & Porosity (Bendtsen type)	IS 9894-1981	Max. 2900 mg/ml

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**Test Method Specification** 

Range of Testing /

	Material of Test	opcomo restricimen	against which tests are performed	Limits of Detection
V. M	ETAL & METAL PR	CODUCTS		
1.	METAL & ALLOYS	Tensile Test	IS 1608-2005	
	(Ferrous & Non Ferrous) Bars, Wires, Pipes, Tubes, Valves, Sheets	Tensile Strength		Min. 100 MPa Max. 1500 MPa
		0.2% Proof Stress / Yield Stress		Min. 200 MPa Max. 800 MPa
		% Elongation		Min. 3%
		Reduction Area %		Min. 30%
		0.2% Proof Load	IS 14268-1995	Min. 1200 N
		Breaking Load / Breaking strength	IS 14268-1995	Min. 1.2 kN
		Bend Test	IS 1599-1985, RA 2006	Qualitative
		Rebend Test	IS 1786-2008	Qualitative
		Compression Test for Steel conduit	IS 9537 (Part-I)-1980, RA 2007	Max. 10%
		Brinell hardness Test	IS 1500-2005	100 to 400 HBW HBW 5 mm/ 750kg HBW 10 mm/ 3000 kg

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		Vickers Hardness Test	IS 1501-2002, RA 2007	250 to 750 HV Test load 30 kg
		Rockwell Hardness Test	IS 1586-2012	20 to 100 HRB 20 to 70 HRC
		Flattening Test	IS 2328-2005	Qualitative
		Crushing strength test	IS 3601-2006	Qualitative
		Bend test for Metallic Tube	IS 2329-2005	Qualitative
		Izod Impact Test	IS 1598-1977, RA 2009	Upto 170 J
		Charpy impact Test	IS 1757-1988	Upto 300 J Upto (-)40 °C
		Reverse Bend Test	IS 1716-1985, RA 2006	Qualitative
		Wrapping Test	IS: 1755-1983, RA 2006	Qualitative
		Bend test for steel conduit	IS 9537 (Part 2)-1981	Qualitative
		Drif Expansion Test	IS 2335-1985, RA 2001	Qualitative

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		Dimension	IS 1239 (Part-1)-2004 RA 2010	Min. 0.01
			IS 1239 (Part-2)-2011	
			IS 1161-1998, RA 2009	
			IS 1785 (Part-1)-1983, RA 2009	
			IS 1785 (Part-2)-1983, RA 2009	
			IS 1786-2008	
			IS 3589-2001, RA 2009	
			IS 3601-2006	
			IS 2062-2011	
			IS 4270-2001, RA 2006	
			IS 778-1984, RA 2005	
			IS 4923-1997 RA 2009	
			IS 9537 (Part 2)-1981 RA 2007	
2.	PIPE TMT /	Mass	IS 1239 (Part-1)-2004, RA 2010	Min. 0.5 g
	HSD BARS		IS 1161-1998, RA 2009	
			IS 1786-2008, RA 2008	
			IS 3589-2001, RA 2009	
			IS 3601-2006	
			IS 2062-2011	
			IS 4270-2001, RA 2006	
			IS 4923-1997, RA 2009	
			IS 9537 (Part-I)-1980, RA 2007	

Laboratory		National Test House (N Uttar Pradesh	National Test House (N.R.), Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh				
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3.	GATE VALVES, GLOBE VALVES, CHECK VALVES AND OTHERS VALVES FOR WATER WORKS PURPOSES, M.S. TUBULER & OTHER STEEL FITTINGS	Hydraulic Pressure Test	IS 778-1984, RA 2005	Quali	tative		
4.	TRANSFORMER TANK	Air pressure Test/ Vacuum Test	IS 1180 (Part-1)-1989 & IS 1180 (Part-2)-1989, RA 2	Quali 009	tative		
5.	TMT/HSD BAR	Pullout test	IS 2770 (Part-1)-1967, RA 2	0.025 0.25 I			
6.	STEEL PIPE / TUBES (Upto 150 mm Nominal size)	Workmanship / Finish (Visual Inspection)	IS 1239 (Part-1)-2004 IS 1161-1998	Quali	tative		