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रा०ल०उ०नि० तकनीकी सेवा केंद्र NSIC TECHNICAL SERVICES CENTRE

राष्ट्रीय लघु उद्योग निगम लिमिटेड THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(भारत सरकार का उद्यम)(A Government of India Enterprises)

ओखला औद्योगिक संपदा, नई दिल्ली-११००२० OKHLA INDUSTRIAL ESTATE, NEW DELHI - 110020

सामग्री परीक्षण प्रयोगशाला (ISO/IEC 17025:2005 accredited) MATERIAL TESTING LABORATORY

SCHEDULE RATES FOR TESTING EFFECTIVE FROM 01 OCTOBER 2016

S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
A	**CHEMICAL ANALYSIS OF METAL**								
1		Single Element (Purity)	-	-	500.00	475.00	450.00	1 sample	7 days
2		Ferrous Material (upto 5 Elements)							
	i	Manganese Steel C, Mn, Si, S, P	IS:228	IS:1870	1500.00	1425.00	1350.00	1 sample	7 days
	ii	Plain Carbon Steel/ Cast iron/ Pig Iron C, Mn, Si, S, P	IS:228	IS:1870	1500.00	1425.00	1350.00	1 sample	7 days
	iii	Alloy Steel/ Alloy Cast Iron (more than 5 Cr, Ni, Mo, V, W	IS:228	IS:1870	2000.00	1900.00	1800.00	1 sample	7 days
	iv	Alloying Elements (more than 5 elements) Cr, Ni, Mo, V, W	IS:228	IS:1870	2000.00	1900.00	1800.00	1 sample	7 days
	v	Main Element Only	IS:228	IS:1870	500.00	475.00	450.00	1 sample	7 days
	vi	Ferrous Material (more than 5 Elements)	IS:228	IS:1870	2000.00	1900.00	1800.00	1 sample	7 days
3		Ferro Alloys upto 5 Elements							
	i	Main Element Only	IS:228	IS:1870	500.00	475.00	450.00	1 sample	7 days
4		Non-Ferrous Material							
	i	Copper Base	IS:3685	IS:1264, 318, 319	2000.00	1900.00	1800.00	1 sample	7 days
	ii	Tin Base	IS:27	IS:26	2000.00	1900.00	1800.00	1 sample	7 days
	iii	Lead Base	IS:1409	IS:27	2000.00	1900.00	1800.00	1 sample	7 days
	iv	Aluminium Base	IS:504	IS:1285, 733, 737	2000.00	1900.00	1800.00	1 sample	7 days
B	**MECHANICAL TESTS (DESTRUCTIVE)**								
1	i	Dimension (each parameter: length, width, height, diameter)			300.00	285.00	270.00	Full Sample	5 days
2	i	Tensile Test (Duly ready/ machined test (Tensile Strength, Elongation & Breaking Load)	IS:1608		1500.00	1425.00	1350.00	1 m	7 days
	ii	Yield Stress/ Proof Stress	IS:1608		500.00	475.00	450.00	1 m	7 days
	iii	Modulus of Elasticity			500.00	475.00	450.00	1 m	7 days
	iv	Machining Charges - Small Job Work			200.00	190.00	180.00		3 days
	v	Machining Charges - Heavy Job Work			500.00	475.00	450.00		3 days
	vi	Freedom from Defect			1000.00	950.00	900.00	Sample	3 days

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						Other	Small	Micro		
3	i	Sling Set (8 legs)		-	As per customer	2000.00	1900.00	1800.00	1 set	5 days
	ii	Single Load Test		-	Request	500.00	475.00	450.00	1 set	5 days
4	Load Test									
	i	Breaking Load Test (Duly ready/ machined test samples with Fixture)				1000.00	950.00	900.00	1 m	5 days
		Wire Rope, Rod, Chain, Hook, Stay Set, Sisal Rope, Manila Rope etc.								
	ii	Complicated and heavy jobs will be charged extra				500.00	475.00	450.00		5 days
	iii	Bend Test		IS: 1599		500.00	475.00	450.00	0.5 m	5 days
	iv	Rebend Test		IS: 1599		500.00	475.00	450.00	0.5 m	5 days
	v	Reverse Bend Test		IS: 1599		500.00	475.00	450.00	0.5 m	5 days
	vi	Face bend Test		IS: 1599		500.00	475.00	450.00	0.5 m	5 days
	vii	Root Bend Test		IS: 1599		500.00	475.00	450.00	0.5 m	5 days
	viii	Transverse Test				500.00	475.00	450.00	0.5 m	5 days
	ix	Compression Strength		IS:516	IS:456	1500.00	1425.00	1350.00	1 set	5 days
	x	Flattening		IS:2328		1000.00	950.00	900.00	0.5 m	5 days
	xi	Wrapping		IS:1755	IS:280	500.00	475.00	450.00	0.5 m	5 days
	xii	Weight per meter		IS:808		500.00	475.00	450.00	1 m	5 days
5	i	Dynamometer (Load Verification) 20 T				5000.00	4750.00	4500.00	1 unit	5 days
6	Measurement of Plating Thickness									
	i	Anodic Coating (Al)		IS:5523	IS:1868	1500.00	1425.00	1350.00	1 sample	5 days
	ii	Mass of Zinc Coating determination		IS:6745	IS:4736	1500.00	1425.00	1350.00	1 sample	5 days
	iii	Uniformity of Zinc Coating Test (Dip Test)		IS:2629	IS:4736	1500.00	1425.00	1350.00	1 sample	5 days
	iv	Hard Chrome Plating		IS:3203	IS:1068	1500.00	1425.00	1350.00	1 sample	5 days
	v	Nickel Chrome Plating		IS:3203	IS:1068	2000.00	1900.00	1800.00	1 sample	5 days
	vi	Powder Coating		IS:101	IS:13871	1500.00	1425.00	1350.00	1 sample	5 days
7	Cold Reduced Low Carbon Steel									
	i	Tensile Strength		IS:1608	IS:513	1000.00	950.00	900.00	1 sample	7 days
	ii	Yield Stress		IS:1608	IS:513	500.00	475.00	450.00	1 sample	7 days
	iii	% Elongation		IS:1608	IS:513	500.00	475.00	450.00	1 sample	7 days
	iv	Bend Test		IS:1599	IS:513	500.00	475.00	450.00	1 sample	7 days
	v	Chemical Analysis (C,Mn,S,P)		IS:228	IS: 280	1500.00	1425.00	1350.00	1 sample	7 days

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					Other	Small	Micro		
C		**BUILDING MATERIAL TESTING**							
	1	Wooden Flush Door Shutters (Solid Core Type) / (a) Particle Board and Hardboard Face Panels (b) Plywood face panel							
	i	Dimension Test						Full Door	30 days
		(a) Height	IS: 4020	IS: 2202	300.00	285.00	270.00		
		(b) Width	IS: 4020	IS: 2202	300.00	285.00	270.00		
		(c)Thickness	IS: 4020	IS: 2202	300.00	285.00	270.00		
	ii	Squareness Test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	iii	General Flatness Test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	iv	Impact Indentation Test	IS: 4020	IS: 2202	1500.00	1425.00	1350.00		
	v	Flexure Test	IS: 4020	IS: 2202	2500.00	2375.00	2250.00		
	vi	Edge Loading Test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	vii	Shock Resistance Test	IS: 4020	IS: 2202	4000.00	3800.00	3600.00		
	viii	End Immersion	IS: 4020	IS: 2202	2000.00	1900.00	1800.00		
	ix	Glue Adhesion	IS: 4020	IS: 2202	1500.00	1425.00	1350.00		
	x	Knife Test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	xi	Screw withdrawal test	IS: 4020	IS: 2202	1000.00	950.00	900.00		
	xii	Slamming test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	xiii	Buckling test	IS: 4020	IS: 2202	500.00	475.00	450.00		
	2	Structural Timber/ Wood		IS: 883				1 x 0.25 m	15 days
	i	Moisture content	IS:287		500.00	475.00	450.00		
	ii	Density/ Unit Mass	IS:399		500.00	475.00	450.00		
	iii	Modulus of Elasticity	IS:1708		1000.00	950.00	900.00		
	iv	Modulus of Rapture	IS:1708		1000.00	950.00	900.00		
	v	Compression Stress II to grain	IS:1708		500.00	475.00	450.00		
	vi	Compression Stress ⊥ to grain	IS:1708		500.00	475.00	450.00		
	vii	Feature Analysis	IS:1708		300.00	285.00	270.00		
	viii	Visual Test	IS:1708		200.00	190.00	180.00		
	3	Block Board						Full Board	30 days
	i	Resistance to Water	IS:2380	IS:1659	2000.00	1900.00	1800.00		
	ii	Modulus of Rapture	IS:2380	IS:1659	1000.00	950.00	900.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
	iii	Modulus of Elasticity	IS:2380	IS:1659	1000.00	950.00	900.00		
4	Wood Particle Board		IS: 2380	IS: 3087				Full Board	15 days
	i	Dimension							
		(a) Height			300.00	285.00	270.00		
		(b) Width			300.00	285.00	270.00		
		(c)Thickness			300.00	285.00	270.00		
	ii	Water Absorption			1000.00	950.00	900.00		
	iii	Swelling Test			1000.00	950.00	900.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Tensile Strength			1000.00	950.00	900.00		
	vi	Screw withdrawal test			1000.00	950.00	900.00		
	vii	Density			500.00	475.00	450.00		
	viii	Modulus of Elasticity			1000.00	950.00	900.00		
	ix	Moisture content			500.00	475.00	450.00		
5	Pre-laminated Particle Board		IS: 2380	IS: 12823				Full Board	15 days
	i	Dimension							
		(a) Height			300.00	285.00	270.00		
		(b) Width			300.00	285.00	270.00		
		(c)Thickness			300.00	285.00	270.00		
	ii	Water Absorption			1000.00	950.00	900.00		
	iii	Swelling Test			1000.00	950.00	900.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Tensile Strength			1000.00	950.00	900.00		
	vi	Screw withdrawal test			1000.00	950.00	900.00		
	vii	Density			500.00	475.00	450.00		
	viii	Modulus of Elasticity			1000.00	950.00	900.00		
	ix	Moisture content			500.00	475.00	450.00		
	x	Resistance to Steam			1000.00	950.00	900.00		
	xi	Resistance to Crack			1000.00	950.00	900.00		
	xii	Resistance to Stain			2000.00	1900.00	1800.00		
	xiii	Resistance to Cigarette Burn			500.00	475.00	450.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
6		Medium Density Fiber Board	IS:2380	IS: 12406				Full Board	15 days
	i	Dimension							
		(a) Size			300.00	285.00	270.00		
		(b) Thickness			300.00	285.00	270.00		
	ii	Water Absorption			500.00	475.00	450.00		
	iii	Swelling Test			1000.00	950.00	900.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Tensile Strength			1000.00	950.00	900.00		
	vi	Screw withdrawal test			1000.00	950.00	900.00		
	vii	Density			500.00	475.00	450.00		
	viii	Modulus of Elasticity			1000.00	950.00	900.00		
7		General Purpose Plywood	IS:1734	IS:303				Full Board	30 days
	i	Dimension							
		(a) Size			300.00	285.00	270.00		
		(b) Thickness			300.00	285.00	270.00		
	ii	Glue Adhesion							
		(a) Glue Shear Strength (Dry State)			1000.00	950.00	900.00		
		(b) Mycological Test			1000.00	950.00	900.00		
		(c) Water Resistance Test			1000.00	950.00	900.00		
	iii	Moisture content			500.00	475.00	450.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Modulus of Elasticity			1000.00	950.00	900.00		
8		Glass Fiber Reinforced Plastic (GRP)						Full Shutter	30 days
	i	Fiber Glass Content	IS: 14856	IS: 14856	1500.00	1425.00	1350.00		
	ii	Tensile Strength	IS: 14856	IS: 14856	1000.00	950.00	900.00		
	iii	Bending Strength	IS: 14856	IS: 14856	1000.00	950.00	900.00		
	iv	Elastic modulus	IS: 14856	IS: 14856	1000.00	950.00	900.00		
	v	Water Absorption	IS: 14856	IS: 14856	500.00	475.00	450.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
9		Shuttering Plywood	IS:1734	IS: 4990				Full Board	30 days
	i	Dimension							
		(a) Size			300.00	285.00	270.00		
		(b) Thickness			300.00	285.00	270.00		
	ii	Moisture content			500.00	475.00	450.00		
	iii	Glue Shear Strength			1000.00	950.00	900.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Modulus of Elasticity			1000.00	950.00	900.00		
	vi	Water Resistance			2000.00	1900.00	1800.00		
10		Marine Plywood	IS:1734	IS: 710				Full Board	30 days
	i	Dimension							
		(a) Size			300.00	285.00	270.00		
		(b) Thickness			300.00	285.00	270.00		
	ii	Glue Adhesion			1500.00	1425.00	1350.00		
		(a) Glue Shear Strength	(P-4)		1000.00	950.00	900.00		
		(b) Adhesion of Plies	(P-5)		1000.00	950.00	900.00		
	iii	Tensile Strength			1000.00	950.00	900.00		
	iv	Modulus of Rapture	(P-11)		1000.00	950.00	900.00		
	v	Modulus of Elasticity	(P-11)		1000.00	950.00	900.00		
	vi	Moisture content	(P-I)		500.00	475.00	450.00		
	vii	Mycological Test	(P-7)		1000.00	950.00	900.00		
	viii	Water Resistance	(P-5)		2000.00	1900.00	1800.00		
11		Fire Retardant Plywood	IS:1734	IS: 5509				Full Board	30 days
	i	Dimension							
		(a) Size			300.00	285.00	270.00		
		(b) Thickness			300.00	285.00	270.00		
	ii	Glue Adhesion			1500.00	1425.00	1350.00		
	iv	Modulus of Rapture			1000.00	950.00	900.00		
	v	Modulus of Elasticity			1000.00	950.00	900.00		
	vi	Glue Shear Strength			1000.00	950.00	900.00		
	vii	Rate of Burning			5000.00	4750.00	4500.00		
	viii	Moisture content			500.00	475.00	450.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
12		Decorative Thermosetting Synthetic Resin Bonded Laminated Sheet (IS:2046-1995)						Full Board	30 days
	i	Resistance to Immersion boiling water			1000.00	950.00	900.00		
	ii	Resistance to cracking			1000.00	950.00	900.00		
	iii	Resistance to staining			2000.00	1900.00	1800.00		
	iv	Resistance to steam			1000.00	950.00	900.00		
13		High Strength Deformed Steel Bars and Wires		IS: 1786				2 m	7 days
	i	Tensile Strength	IS:1608		1000.00	950.00	900.00		
	ii	Proof Stress/ Yield Stress	IS:1608		500.00	475.00	450.00		
	iii	Elongation Percentage	IS:1608		500.00	475.00	450.00		
	iv	Bend	IS:1599		500.00	475.00	450.00		
	v	Rebend	IS:1599		500.00	475.00	450.00		
	vi	Weight per meter			500.00	475.00	450.00		
	vii	Chemical Analysis - C, S, P	IS:228		1000.00	950.00	900.00		
14		Reinforcement Couplers for Mechanical Splices of Bars (IS 16172)						1 m x 1	
	i	Tensile Strength	IS:1608		1000.00	950.00	900.00		7 days
15		Uncoated Stress Relieved Low Relaxation Seven Ply Strand (IS 14268)						1 m x 1	7 days
	i	Breaking Strength	IS:1608		1000.00	950.00	900.00		
	ii	Proof Load	IS:1608		500.00	475.00	450.00		
	iii	Elongation Percentage	IS:1608		500.00	475.00	450.00		
	iv	Weight	IS:1599		500.00	475.00	450.00		
	vii	Chemical Analysis - C, S, P	IS:228		1000.00	950.00	900.00		
16		Galvanised Strand for Earthing		IS 12776				1 m x 1	7 days
	i	Breaking Strength	IS:1608		1000.00	950.00	900.00		
	ii	Elongation Percentage	IS:1608		500.00	475.00	450.00		
	iii	Mass	IS:1608		500.00	475.00	450.00		
	iv	Wrapping	IS:1599		500.00	475.00	450.00		
	vii	Zinc Coating			1500.00	1425.00	1350.00		

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					Other	Small	Micro		
17		Hot Rolled Medium and High Tensile Structural Steel (IS 2062)						1 m x 3	14 days
	i	Tensile Strength	IS 1608		1000.00	950.00	900.00		
	ii	Yield Stress	IS 1608		500.00	475.00	450.00		
	iii	Elongation Percentage	IS 1608		500.00	475.00	450.00		
	iv	Bend	IS 1599		500.00	475.00	450.00		
	v	Dimension			1000.00	950.00	900.00		
	vi	Chemical Analysis (C, Mn, S, P, Si, CE)	IS 228		2000.00	1900.00	1800.00		
18		Lime Stone (Slabs and Tiles)		IS 1128					
	i	Water Absorption	IS 1124		500.00	475.00	450.00	FS x 1 No	10 days
	ii	Transverse Strength	IS 1121		1000.00	950.00	900.00	(200x50x50)x3 No	
	iii	Durability test	IS 1126		10000.00	9500.00	9000.00	ϕ50 x 3 Nos	60 days
19		Sand Stone (Slabs and Tiles)		IS 3622					
	i	Water Absorption	IS 1124		500.00	475.00	450.00	FS x 1 No	10 days
	ii	Transverse Strength	IS 1121		1000.00	950.00	900.00	(200x50x50)x3 No	
	iii	Resistance to Wear	IS 1706		5000.00	4750.00	4500.00	(70x70)x3 Nos	
	iv	Durability test	IS 1126		10000.00	9500.00	9000.00	ϕ50 x 3 Nos	60 days
20		Structural Granite		IS 3316					
	i	Water Absorption	IS 1124		500.00	475.00	450.00	FS x 1 No	10 days
	ii	Specific Gravity	IS: 1124		500.00	475.00	450.00	FS x 1 No	
	iii	Compression Strength	IS: 1121-1		1000.00	950.00	900.00	(50x50)x3 No	
21		Natural Building Stones		IS 1123					
	i	Specific Gravity	IS: 1124		500.00	475.00	450.00	FS x 1 No	10 days
	ii	Compression Strength	IS: 1121-1		1000.00	950.00	900.00	(50x50)x3 No	
	iii	Resistance to Abrasion	IS 1706		5000.00	4750.00	4500.00	(70x70)x3 Nos	
	iv	Modulus of Elasticity			1000.00	950.00	900.00	FS x 1 No	
	v	Porosity	IS: 1124		500.00	475.00	450.00	FS x 1 No	
	vi	Tensile Strength	IS: 1121-1		1000.00	950.00	900.00	ϕ50 x 3 Nos	
22		Marble (Slabs, Blocks and Tiles)	IS:1124	IS:1130				Full Slab	10 days
	i	Moisture Absorption	IS: 1121-1		500.00	475.00	450.00		
	ii	Specific Gravity	IS: 1122		500.00	475.00	450.00		
	iii	Hardness (Mho's Scale)			500.00	475.00	450.00		

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					Other	Small	Micro		
23		Cement Analysis OPC/ PPC	IS: 4032	IS: 269, IS:455, IS:1489, IS:12269, IS:8112				50 kg (1 bag)	30 days
	i	Chemical Test	IS:4032						
		(a) Ratio: $(CaO-0.7SO_3)/ (2.8SiO_2+1.2Al_2O_3+0.65Fe_2O_3)$			1000.00	950.00	900.00		
		(b) Ratio: Alumina to Iron Oxide			500.00	475.00	450.00		
		(c) SO_3 by mass			500.00	475.00	450.00		
		(d) IR by mass			500.00	475.00	450.00		
		(e) MgO by mass			500.00	475.00	450.00		
		(f) Loss on Ignition			500.00	475.00	450.00		
	ii	Physical Test	IS:4031						
		(a) Setting time		IS:8112	1000.00	950.00	900.00		
		(b) Compressive Strength (3, 7 and 28 days)		IS: 516	3000.00	2850.00	2700.00		
		(c) Consistency	IS: 4031	IS:8112	500.00	475.00	450.00		
		(d) Soundness (Le Chatelier Method)	IS: 4031	IS:8112	500.00	475.00	450.00		
		(e) Soundness (Autoclave Method)	IS: 4031	IS:8112	500.00	475.00	450.00		
		(f) Fineness (Sieve Method)	IS:4031	IS:8112	500.00	475.00	450.00		
24		Manhole Cover	IS:12592	IS:12592				1 No.	5 days
	i	Dimensions			2000.00	1900.00	1800.00		
	ii	Load Test			2000.00	1900.00	1800.00		
25		Precast Concrete Cable Covers	IS 5820	IS 5820					10 days
	i	Breaking Load/ Transverse Strength			1000.00	950.00	900.00	1 Nos.	
	ii	Impact Strength			1000.00	950.00	900.00	1 Nos	
26		Concrete Cube						3 cubes	4 days
	i	Compressive Strength	IS:516	IS: 456	1500.00	1425.00	1350.00		
27		Concrete Core						1 core	7 days
	i	Compressive Strength	IS:516	IS: 456	1000.00	950.00	900.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required		Duration
					Other	Small	Micro			
28		Water Tank Testing upto 500 l	IS 12701	IS 12701				1 Tank with cover		20 days
	i	Dimension			2000.00	1900.00	1800.00			
	ii	Weight			500.00	475.00	450.00			
	iii	Tensile Strength	IS:8543(Sec -I)		1000.00	950.00	900.00			
	iv	Resistance to Deformation			1000.00	950.00	900.00			
	v	Resistance to Impact			500.00	475.00	450.00			
	vi	Density	IS:7828		1000.00	950.00	900.00			
	vii	Black Carbon Dispersion			1000.00	950.00	900.00			
	viii	Flexural Strength	IS:13360		1500.00	1425.00	1350.00			
	ix	Visual Test			1000.00	950.00	900.00			
	x	Top Load Resistance			1000.00	950.00	900.00			
	xi	Portability Test			500.00	475.00	450.00			
	xii	*Capacity			500.00	475.00	450.00			
	*	Capacity above than 500 liters			1.00/ liter					
29		Building Bricks (Common Burnt Clay)	IS:3495	IS: 1077						
	i	Dimension			500.00	475.00	450.00			
	ii	Compressive Strength	(P-I)		1500.00	1425.00	1350.00	20 Nos.	5 Nos	10 days
	iii	Water Absorption	(P-II)		500.00	475.00	450.00		5 Nos	
	iv	Efflorescence	(P-III)		500.00	475.00	450.00		5 Nos	
30		Fly Ash / Ash Lime Bricks	IS:3495	IS: 13757/ IS: 12894						
	i	Dimension			500.00	475.00	450.00			
	ii	Compressive Strength	(P-I)		1500.00	1425.00	1350.00	20 Nos.	5 Nos	10 days
	iii	Water Absorption	(P-II)		500.00	475.00	450.00		5 Nos	
	iv	Efflorescence	(P-III)		500.00	475.00	450.00		5 Nos	
31		Sewer Bricks (Burnt Clay)	IS:3495	IS: 4885						
	i	Dimension			500.00	475.00	450.00			
	ii	Compressive Strength	(P-I)		1500.00	1425.00	1350.00	20 Nos.	5 Nos	10 days
	iii	Water Absorption	(P-II)		500.00	475.00	450.00		5 Nos	
	iv	Efflorescence	(P-III)		500.00	475.00	450.00		5 Nos	

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required		Duration
					Other	Small	Micro			
32		Concrete Masonary Unit		IS 2185 (Pt-1 & 2)						
	i	Dimension			500.00	475.00	450.00			
	ii	Block Density			500.00	475.00	450.00	20 Nos.	3 Nos	20 days
	iii	Compressive Strength			4000.00	3800.00	3600.00		8 Nos	
	iv	Water Absorption			500.00	475.00	450.00		3 Nos	
	v	Drying Shrinkage			2000.00	1900.00	1800.00		3 Nos	
33		Concrete Masonary Unit (AAC Block)		IS 2185 (Pt-3)						
	i	Dimension			500.00	475.00	450.00			
	ii	Block Density	IS 6441-1		500.00	475.00	450.00	24 Nos.	3 Nos	20 days
	iii	Compressive Strength	IS 6441-5		6000.00	5700.00	5400.00		12Nos	
	iv	Drying Shrinkage	IS 6441-2		2000.00	1900.00	1800.00		3 Nos	
34		Paver Blocks	IS 15658	IS 15658						
	i	Compressive Strength			4000.00	3800.00	3600.00		8 Nos.	
	ii	Water Absorption			500.00	475.00	450.00	24 Nos	3 Nos	15 days
	iii	Dimension (WxLxT)			500.00	475.00	450.00		8 Nos.	
	iv	Flexural Strength			4000.00	3800.00	3600.00		8 Nos.	
	v	Abrasion test			5000.00	4750.00	4500.00		8 Nos.	
35		Ceramic or Vitrified Tiles	IS:13630	IS: 15622						
	i	Dimension			500.00	475.00	450.00		10 Nos	
	ii	Water Absorption			500.00	475.00	450.00		5 Nos	
	iii	Modulus of Rapture			1000.00	950.00	900.00		10 Nos	
	iv	Breaking Strength			500.00	475.00	450.00	20 Nos.	10 Nos	15 days
	v	Scratch Hardness (Mho's Scale)			500.00	475.00	450.00	(0.04 m²)	3 Nos	
	vi	Chemical Resistance			1000.00	950.00	900.00		5 Nos	
	vii	Crazing Resistance			1000.00	950.00	900.00		5 Nos	
	viii	Resistance to Thermal Shock			1000.00	950.00	900.00		5 Nos	
36		Fine Aggregate, Coarse Sand	IS: 2386	IS:383						
	i	Sieve Analysis			1500.00	1425.00	1350.00			
	ii	Specific Gravity			1000.00	950.00	900.00			
	iii	Bulk Density			1000.00	950.00	900.00			
	iv	Total Deleterious Material			1500.00	1425.00	1350.00			
	v	Silt Content			1000.00	950.00	900.00	50 kg		15 days
	vi	Bulking of Sand			1000.00	950.00	900.00			
	vii	Water Absorption			500.00	475.00	450.00			
	viii	Soundness			500.00	475.00	450.00			
	ix	Organic Impurities			1500.00	1425.00	1350.00			

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
37		Coarse Aggregate	IS: 2386	IS:383				50 kg	15 days
	i	Sieve Analysis			1000.00	950.00	900.00		
	ii	Specific Gravity			1000.00	950.00	900.00		
	iii	Bulk Density			1000.00	950.00	900.00		
	iv	Water Absorption			500.00	475.00	450.00		
	v	Crushing Value			1000.00	950.00	900.00		
	vi	10% Fine Value			1000.00	950.00	900.00		
	vii	Combined Flakiness & Elongation Index			1000.00	950.00	900.00		
	viii	Total Deleterious Material			1500.00	1425.00	1350.00		
	ix	Soundness			500.00	475.00	450.00		
	x	Impact Value			500.00	475.00	450.00		
	xi	Abration Value			1000.00	950.00	900.00		
	xii	Organic Impurities			1500.00	1425.00	1350.00		
38		Admixture - Uniformity test	IS 9103	IS 9103				1 liter	7 days
	i	Dry Material Content			2000.00	1900.00	1800.00		
	ii	Ash Content			1500.00	1425.00	1350.00		
	iii	pH			500.00	475.00	450.00		
	iv	Relative Density			1000.00	950.00	900.00		
	v	Chloride Ion			1000.00	950.00	900.00		
39		Water Proofing Compound							
	i	Setting time	IS: 4031	IS:2645-2003	1000.00	950.00	900.00	1 liter/ 2 kg and 5 kg Cement	15 days
	ii	Compressive Strength 3, 7 days			3000.00	2850.00	2700.00		
	iii	Chloride Content			1000.00	950.00	900.00		
40		Bituminous Concrete / Bituminous Macadam / Mastic		(MORTH)				5 kg	2 weeks
	i	Bitumen Content % by mass			5000.00	4750.00	4500.00		
	ii	Aggregate Size (Sieve Analysis)			1000.00	950.00	900.00		
41		Construction Water	IS 3025	IS: 456				2 liter	7 days
	i	0.02 N NaOH required to neutralize 100 ml			500.00	475.00	450.00		
	ii	0.02 N H_2SO_4 required to neutralize 100 ml			500.00	475.00	450.00		
	iii	Sulphate (asSO_3)			500.00	475.00	450.00		
	iv	Chloride (as cl)			500.00	475.00	450.00		
	v	Organic solids			500.00	475.00	450.00		
	vi	Inorganic solids			500.00	475.00	450.00		
	vii	Suspended matters			500.00	475.00	450.00		
	viii	pH			500.00	475.00	450.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
42		Mix Design of Concrete							
	i	OPC/ PPC Cement upto M45 Grade		IS 10262	28000.00	26600.00	25200.00	Coarse Aggregate: 150 kg Fine Aggregate: 150 kg Cement: 100 kg	6 weeks
	ii	OPC/ PPC Cement with Fly Ash upto M45 Grade		IS 10262	32000.00	30400.00	28800.00	as (i) above and Fly Ash: 100 kg	6 weeks
43		Cement Mortar - Chemical Composition (Ratio test)	IS:1199		3500.00	3325.00	3150.00	10 kg	2 weeks
44		UV Stabilized Fiber Glass Reinforced Plastic Sheet							
	i	Thickness	----	IS:12866	300.00	285.00	270.00	1 x 1 m	2 weeks
	ii	Density	IS:12866	IS:12866	500.00	475.00	450.00		
	iii	Glass Content			1500.00	1425.00	1350.00		
	iv	Water Absorption			500.00	475.00	450.00		
	v	Bolt Shear Test			1000.00	950.00	900.00		
	vi	Load Deflection test			500.00	475.00	450.00		
	vii	Tensile Strength	IS:1998	IS:10192	1000.00	950.00	900.00		
	viii	Cross Breaking Strength			1000.00	950.00	900.00		
45		Gypsum Building Plaster							
	i	SO_3 by mass	IS:2542	IS:2547 (Pt.-I)	500.00	475.00	450.00	10 kg	15 days
	ii	CaO_3 percent by mass			500.00	475.00	450.00		
	iii	MgO %			500.00	475.00	450.00		
	iv	Na_2O %			500.00	475.00	450.00		
	v	Loss on Ignition			500.00	475.00	450.00		
	vi	Setting time			1000.00	950.00	900.00		
	vii	Transverse strength			1000.00	950.00	900.00		
	viii	Soundness			500.00	475.00	450.00		
	ix	Residue on 1.8mm			1000.00	950.00	900.00		
46		APP (Atactic Polypropylene Polymer) Water Proofing Membrane							
	i	Thickness of Membrane		CPWD Vol. II	300.00	285.00	270.00	1 x 1 m	15 days
	ii	Weight of Membrane			500.00	475.00	450.00		
	iii	Tensile Strength (Longitudinal / Crosswise)			1000.00	950.00	900.00		
	iv	Softening Point			500.00	475.00	450.00		
	v	Cold Flexibility			1000.00	950.00	900.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
D	**PIPE**								
1		RCC Hume Pipe/ SW Pipe	IS: 458	IS: 458				1 No. Full Size	10 Days
	i	Dimension			1500.00	1425.00	1350.00		
	ii	Water Absorption - 10 minute			500.00	475.00	450.00		
	iii	Water Absorption - 24 hours			500.00	475.00	450.00		
	iv	Reinforcement - HD/ MS Wire	IS:1608	IS:458, IS:432 (I&II), 280					
		(a) Yield Stress/ Proof Stress			500.00	475.00	450.00		
		(b) Tensile Strength			1000.00	950.00	900.00		
		(c) Elongation			500.00	475.00	450.00		
		(d) Bend Test	IS:1599		500.00	475.00	450.00		
	v	Chemical Analysis of HD/ MS Wire	IS:228		1500.00	1425.00	1350.00		
2		HDPE/ LDPE/ UPVC Pipe		IS: 4984, 4985				1 No. Full Size	10 days
	i	Dimension			1000.00	950.00	900.00		
	ii	Density	IS:7328		1000.00	950.00	900.00		
	iii	Reversion Test	IS:4984		1000.00	950.00	900.00		
	iv	Resistant to External Blow			500.00	475.00	450.00		
	v	Sulphate Ash Content			1000.00	950.00	900.00		
	vi	Visual Test			200.00	190.00	180.00		
3		PVC Conduct Pipe	IS 9537-1	IS 9537-3				2 No. Full Size	10 Days
	i	Dimension (Dia & Thickness)			600.00	570.00	540.00		
	ii	Bend Test			1000.00	950.00	900.00		
	iii	Compressive Test			1000.00	950.00	900.00		
	iv	Impact Test			500.00	475.00	450.00		
	v	Resistance to Heat			500.00	475.00	450.00		
	iv	Resistance to Burning			500.00	475.00	450.00		
5		CPVC Pipe		IS: 15778				1 No. Full Size	10 days
	i	Dimension (ϕxTx Ovality)			1000.00	950.00	900.00		
	ii	Density	IS:7328		1000.00	950.00	900.00		
	iii	Reversion Test	IS:4984		1000.00	950.00	900.00		
	iv	Resistant to External Blow			500.00	475.00	450.00		
	v	Flattening test			500.00	475.00	450.00		
	vi	Visual Test			200.00	190.00	180.00		

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S. No.		Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
					Other	Small	Micro		
	4	M. S. Conduit Pipe	IS 9537-1	IS 9537-2					
		i Dimension (Dia & Thickness)			600.00	570.00	540.00	2 No. Full Size	10 Days
		ii Bend Test			1000.00	950.00	900.00		
		iii Compressive Test			1000.00	950.00	900.00		
	6	M. S. Pipe/ G. I. Pipe		IS: 1239, IS:4736					
		i Dimension							
		(a) Bore			300.00	285.00	270.00		
		(b) Outside Diameter			300.00	285.00	270.00		
		(c) Diameter (Minimum)			300.00	285.00	270.00		
		(d) Thickness			300.00	285.00	270.00		
		ii Weight per meter			500.00	475.00	450.00	1 No. Full Size	10 Days
		iii Flattening test			500.00	475.00	450.00		
		iv Breaking Load			500.00	475.00	450.00		
		v Tensile Strength	IS:1608		1000.00	950.00	900.00		
		vi Elongation	IS:1608		500.00	475.00	450.00		
		vii Bend Test	IS:2329		500.00	475.00	450.00		
		viii Chemical Analysis (C,Mn,S & P)	IS:228	IS: 1239	1500.00	1425.00	1350.00		
		ix Zinc Coating	IS:6745	IS:4736	1500.00	1425.00	1350.00		
	7	S. S. Pipe	IS:1608	IS: 6911					
		i Dimension			500.00	475.00	450.00		
		ii Tensile Strength			1000.00	950.00	900.00		
		iii Elongation			500.00	475.00	450.00	1 No. Full Size	10 Days
		iv Proof Stress			500.00	475.00	450.00		
		v Chemical Analysis	IS:228		2000.00	1900.00	1800.00		
		vi Hardness	IS:1586		500.00	475.00	450.00		
	8	C. I. Pipe		IS: 3989, 1536					
		i Dimension			1000.00	950.00	900.00		
		ii Mass			500.00	475.00	450.00	1 No. Full Size	10 Days
		iii Hammer Test	IS:1536		500.00	475.00	450.00		
		iv Ring Test and Tensile Test	IS:1608		1000.00	950.00	900.00		
E	**STEEL WIRE FOR SPRINGS**								
	1	i Mechanical Properties		IS: 4454 (P-1)					
		(a) Tensile Strength	IS:1608		1000.00	950.00	900.00		
		(b) Wrapping Test	IS:1755		500.00	475.00	450.00	2 m x 2	10 days
		(c) Torsion			1000.00	950.00	900.00		
		(d) Bend Test	IS:1599		500.00	475.00	450.00		
		ii Chemical Properties	IS:228		1500.00	1425.00	1350.00		

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S. No.			Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
						Other	Small	Micro		
F	**POLYMER/ RUBBER**									
	1	i	Density/ Specific Gravity	IS:3400	IS: 3400	500.00	475.00	450.00	50 gm	5 days
		ii	Flexural Modulus		IS: 13360	1500.00	1425.00	1350.00	300x300 mm	5 days
		iii	Flexural Strength		ASTM D790	1000.00	950.00	900.00	100x100 mm	3 days
		iv	Hardness (Shore A/ Shore D)		IS: 13360	500.00	475.00	450.00	Button	2 days
		v	Tensile Strength and Elongation	IS:13360	IS: 3400, 13360	1000.00	950.00	900.00	150x150 mm	5 days
G	1	Visual Test				200.00	190.00	180.00	Full Size 1 sample	
H	1	Professional Service (on-Site)				5000.00	4750.00	4500.00	Per Day	
I	**SOIL TESTING**									
	1	i	Maximum Dry Density / Optimum Moisture Content	IS: 2720-7&8		3500.00	3325.00	3150.00	15Kg	12 days
		ii	Plastic Limit	IS: 2720-5		1500.00	1425.00	1350.00	5Kg	5 days
		iii	Liquid Limit	IS: 2720-5		2000.00	1900.00	1800.00		
		iv	Sieve Analysis	IS: 2720-4		1000.00	950.00	900.00	5Kg	5 days
		v	Sedimentation Method			1800.00	1710.00	1620.00		
		vi	Hydrometer Analysis			1000.00	950.00	900.00	2Kg	5 days
		vii	CBR	IS: 2720-16		9000.00	8550.00	8100.00	15kg	18 days
		viii	Free Swelling Index	IS: 2720-40		800.00	760.00	720.00	5Kg	2 days
		ix	Porosity	IS: 2720		600.00	570.00	540.00	15Kg	5 days
		x	Triaxial Test (C & Value)	IS: 2720-11		25000.00	23750.00	22500.00	20Kg	20 days
			i). Un consolidated un-drained test			6000.00	5700.00	5400.00		
			ii). Consolidated undrained test without pour water pressure			5000.00	4750.00	4500.00		
			iii). Consolidated un drain test with pour water pressure			6000.00	5700.00	5400.00		
			iv). Consolidated drained test on a). Sand & b). for Clays			8000.00	7600.00	7200.00		
		xi	Direct Shear Test (C & Value)	IS: 2720-13		10000.00	9500.00	9000.00	15Kg	15 days
		xii	Shrinkage Limit Test	IS: 2720-6		1000.00	950.00	900.00	10Kg	5 days
		xiii	Classification of Soil	IS-1498		3000.00	2850.00	2700.00		

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S. No.			Type of Test	Test Method	Standard Specification	Rate ₹ per Sample			Quantity Required	Duration
						Other	Small	Micro		
J	**BITUMEN TESTING**									
	1	i	Bitumen Content	IS 5317	IS 73	5000.00	4750.00	4500.00	5kg	15 days
		ii	Penetration	IS 1203		1200.00	1140.00	1080.00		
		iii	Penetration Ratio	IS 1203		1200.00	1140.00	1080.00		
		iv	Specific Gravity	IS 1202		1200.00	1140.00	1080.00		
		v	Softening Point	IS 1205		1200.00	1140.00	1080.00		
		vi	Ductility	IS 1208		1200.00	1140.00	1080.00		
		vii	Bitumen Emulsion	IS 8887		7500.00	7125.00	6750.00		
K	**TEXTILE**									
	1	i	Synthetic Blood Penetration Test	ISO 16603		3000.00	2850.00	2700.00		
		ii	Thickness Test	ISO 5084		300.00	285.00	270.00		
		iii	GSM	IS 1964 & ISO 3801	----	500.00	475.00	450.00	1 Pc.	15 days
		iv	Tensile Strength (Avg. of Five Specimens)	IS 1969 & ISO 13934-1		1000.00	950.00	900.00		
		v	Elongation Strength			500.00	475.00	450.00		

Contact Details:- Material Testing Laboratory, NSIC Technical Services Centre, Near Govindpuri Metro Station, Okhla Industrial Estate, New Delhi-110020,
Telephone: 011-26826801 (Extn. 225), **Mobile:** 9911449666, 7985980234, **Email:** ntscok.mtlab@gmail.com

GENERAL TERMS & CONDITIONS:

1. The quantity required are approximate.
2. The duration is working days of the centre and is indicative.
3. Sample(s) are not drawn by us and description of sample is as provided by the customer.
4. The testing charges inclusive of service tax will be paid in advance by means of CBS Cheque/ DD/ NEFT/ RTGS in favour of **NSIC Ltd. - NTSC A/c,** A/c No.-0602002100009880, IFSC Code - PUNB0060200, Bank - Punjab Naional Bank, Branch - NSIC Bhawan, Okhla Industrial Estate, New Delhi - 110020, GSTIN No.07AAACT0686N2ZX , CIN No.- U74140DL1955GOI002481.
5. GST will be charged extra as applicable according to the rule of Govt. of India.
6. Sample with testing charges inclusive of GST shall be submitted by customer on all working days Monday through Friday between **09:30 AM** and **18:00 PM** at Material Testing Laboratory of the Centre.
7. Sample(s) for test will not be accepted without submission of testing charges. Copy of payment acknowledgement receipt shall be submitted to Laboratory for respective sample(s) to be tested.
8. Sample submitted will not be returned, if the sample having processed with destruction/ destructive test.
9. Duplicate Test Certificate will be provided against proper request, at the cost of Rs. 500/-.
10. The postal charges will be extra, if the Report will be sent by post.
11. On express testing within 48 hour, wherever applicable, the charges will be doubled.
12. The similar test parameter(s) would be charged same for relatively same product/ material.
13. If the test desired are not listed above, and could be done at lab; then the testing charge(s) would be charged after approval of competent authority.
14. The rate may be revised at any time without prior intimation in purview of standard(s) and laboratory facility(s).
15. Officer on-site visit charge Rs. 5000.00 + GST18% for a day. Customer shall arrange the suitable conveyance, boarding and lodging facility at their own cost.

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Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Cement (OPC & PPC)	Sulphuric Anhydride - by Mass	IS 4032 -1985
2	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	Alumina - by Mass	IS 4032-1985
3	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	Total Loss on Ignition - by Mass	IS4032-1985
4	CHEMICAL- BUILDING MATERIAL	CEMENT - (OPC & PPC)	Ferric Oxide - by Mass	IS 4032-1985
5	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	Insoluble Residue - by Mass	IS 4032-1985
6	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	Magnesia - by Mass	IS 4032 - 1985
7	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	Silica by Mass	IS 4032 - 1985
8	CHEMICAL- BUILDING MATERIAL	Cement - (OPC & PPC)	CaO by Mass	IS 4032 -1985
9	CHEMICAL- BUILDING MATERIAL	Fiber Glass Reinforce Plastic Plain Sheet	Density (Mass per unit area)	IS 11551 - 1996
10	CHEMICAL- BUILDING MATERIAL	Fiber Glass Reinforce Plastic Plain Sheet	Glass Content- by Mass	IS 12866 -1989
11	CHEMICAL- BUILDING MATERIAL	STONE	Durability	IS 3622-1977
12	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium	ANODIC COATING	IS 5523-2006
13	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium	Powder Coating	IS 101 (part 3 /sec 2)1989
14	CHEMICAL- METALS & ALLOYS	Alloy steel	Carbon	IS 228 (part 1)1987
15	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	IS 228 (part 6)1987
16	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 228 (part 2)1987
17	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 228 (part 5)1987

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18	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorus	IS 228 (part 3)1987
19	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 228 (part 8)1989
20	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 228 (part 9)1989
21	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	IS 12308 (part 10)1991
22	CHEMICAL- METALS & ALLOYS	Cast iron	Phosphorus	IS 12308 (part 11)1991
23	CHEMICAL- METALS & ALLOYS	Cast iron	Silicon	IS 12308 (part 6)1991
24	CHEMICAL- METALS & ALLOYS	Cast iron	Sulphur	IS 12308 (part 2)1991
25	CHEMICAL- METALS & ALLOYS	CAST IRON	Total Carbon	IS 12308 (part 11)1991
26	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	COPPER	IS 4027 (part 1)1987
27	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	IRON	IS 440-1964
28	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	LEAD	IS 440-1964
29	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	TIN	IS 440 -1964
30	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ZINC	IS 4027 (part 6)1987
31	CHEMICAL- METALS & ALLOYS	GI Sheets	Mass of Zinc Coating	IS 6745-72
32	CHEMICAL- METALS & ALLOYS	High Carbon Steel	Carbon	IS 228 (part 1)1987
33	CHEMICAL- METALS & ALLOYS	High Carbon Steel	Manganese	IS 228 (part 2)1987
34	CHEMICAL- METALS & ALLOYS	High Carbon Steel	Phosphorus	IS 228 (part 3)1987
35	CHEMICAL- METALS & ALLOYS	High Carbon Steel	Silicon	IS 228 (part 8)1989

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36	CHEMICAL- METALS & ALLOYS	High Carbon Steel	Sulphur	IS 228 (part 9)1989
37	CHEMICAL- METALS & ALLOYS	Low Carbon Steel	Carbon	IS228 (part 1)1987
38	CHEMICAL- METALS & ALLOYS	Low Carbon Steel	Manganese	IS 228 (part 2)1987
39	CHEMICAL- METALS & ALLOYS	Low Carbon Steel	Phosphorus	IS 228 (part 3)1987
40	CHEMICAL- METALS & ALLOYS	Low Carbon Steel	Silicon	IS228 (part 8)1989
41	CHEMICAL- METALS & ALLOYS	Low Carbon Steel	Sulphur	Is 228 (part 9)1989
42	CHEMICAL- METALS & ALLOYS	Medium carbon steel	Carbon	IS228 (part 1)1987
43	CHEMICAL- METALS & ALLOYS	Medium Carbon Steel	Manganese	IS 228 (part 2)1987
44	CHEMICAL- METALS & ALLOYS	Medium Carbon Steel	Phosphorus	IS 228 (part 3)1987
45	CHEMICAL- METALS & ALLOYS	Medium Carbon Steel	Silicon	IS 228 (part 8)1989
46	CHEMICAL- METALS & ALLOYS	Medium Carbon Steel	Sulphur	IS 228 (part 9)1989
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (part 1)1987
48	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 228 (part 6)1987
49	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 228 (part 2)1987
50	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 228 (part 5)1987
51	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 228 (part 3)1987
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 228 (part 8)1989
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 228 (part 9)1989
54	CHEMICAL- WATER	Construction Water	Acidity	IS 3025 (part 22) 1986

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55	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025 (part 23)1986
56	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (part 32)1988
57	CHEMICAL- WATER	Construction Water	Inorganic Solid	IS 3025 (part 18)1984
58	CHEMICAL- WATER	Construction Water	Organic Solid	IS 3025 (part 18)1984
59	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (part 11)1983
60	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (part 24)1986
61	CHEMICAL- WATER	Construction Water	Total Suspended Materials	IS 3025 (part 17)1984
62	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCKS	Dimension- Length	IS 2185 (part 1-3)1984
63	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCKS	Compressive Strength	IS 2185 (part 1 - 3)1984
64	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCKS	DENSITY	IS 2185 (part 1 - 3)1984
65	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCKS	Dimension - Height	IS 2185 (part 1 - 3)1984
66	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCKS	Dimension - Width	IS 2185 (part 1 - 3)1984
67	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Height	IS 1077-1992
68	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension- Length	IS 1077-1992
69	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension- Width	IS 1077-1992
70	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay & Fly Ash)	Compressive Strength	IS 3495 (part 1)1992
71	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay & Fly Ash)	Efflorescence	IS 3495)part 3)1992
72	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay & Fly Ash)	Water Absorption	IS 3495 (part 2)1992
73	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength - 168 Hrs	IS 4031 (part 6)1988
74	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength - 672 Hrs	IS 4031 (PART 6)1988
75	MECHANICAL- BUILDINGS MATERIALS	CEMENT (OPC & PPC)	Compressive Strength - 72 Hrs	IS 4031 (part 6)1988

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76	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (part 4)1988
77	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031(part 5)1988
78	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (part 5)1988
79	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness - Autoclave	IS 4031 (part 3)1988
80	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness - Le-chatelier	IS 4031 (part 3)1988
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (part - 4)1963
82	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (part - 3)1963
83	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (part - 4)1963
84	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Materials	IS 2386 (part- 2)1963
85	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (part - 1)1963
86	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (part - 1)1963
87	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (part - 4)1963
88	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (part -1))1963
89	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 (part - 5)1963
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (part - 3)1963
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (part-3)1963
92	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compressive Strength	IS 516-1959
93	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 part- 3)1963

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94	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious materials	IS 2386 (part- 2)1963
95	MECHANICAL- BUILDINGS MATERIALS	FINE AGGREGATE	Sieve Analysis	IS 2386 (part - 1)1963
96	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness	IS 2386 (part 5)1963
97	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (part 3)1963
98	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (part - 3)1963
99	MECHANICAL- BUILDINGS MATERIALS	FLY ASH BRICKS	Dimension - Height	IS 12894-2002
100	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimension - Length	IS 12894-2002
101	MECHANICAL- BUILDINGS MATERIALS	FLY ASH BRICKS	Dimension - Width	IS 12894-2002
102	MECHANICAL- BUILDINGS MATERIALS	Granite	Compressive Strength	IS 1121 (part 1)1974
103	MECHANICAL- BUILDINGS MATERIALS	Granite	Specific Gravity	IS 1124-1974
104	MECHANICAL- BUILDINGS MATERIALS	Granite	Water Absorption	IS 1124 -1974
105	MECHANICAL- BUILDINGS MATERIALS	Marbles	Specific Gravity	IS 1122-1974
106	MECHANICAL- BUILDINGS MATERIALS	Marbles	Water Absorption	IS 1124-1974
107	MECHANICAL- BUILDINGS MATERIALS	Pavers Blocks	Dimension - Length	IS 15658
108	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Compressive Strength	IS 15658
109	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Dimension - Thickness	IS 15658
110	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Dimension - Width	IS 15658
111	MECHANICAL- BUILDINGS MATERIALS	Pavers Block	Water Absorption	IS 15658

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112	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs	Dimension - Height	IS 5758-1984
113	MECHANICAL- BUILDINGS MATERIALS	PRECAST CONCRETE KERBS	Dimension - Length	IS 5758-1984
114	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs	Dimension - width	IS 5758-1984
115	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs	Transverse Strength	IS 5758-1984
116	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs	Water Absorption - 10 minutes	IS 5758-1984
117	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs	Water Absorption - 24 hours	IS 5758-1984
118	MECHANICAL- BUILDINGS MATERIALS	Red & White Sand Stone	Transverse Strength	IS 1121 (part 2)1974
119	MECHANICAL- BUILDINGS MATERIALS	Red & White Sand Stone	Water Absorption	IS 1122-1974
120	MECHANICAL- BUILDINGS MATERIALS	Tiles	Braking Strength	IS 13630 (part 6)2006
121	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension - Length	IS 13630 (part 1)2006
122	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension - Thickness	IS 13630 (part 1)2006
123	MECHANICAL- BUILDINGS MATERIALS	Tiles	Dimension - Width	IS 13630 (part 1)2006
124	MECHANICAL- BUILDINGS MATERIALS	Tiles	Modulus of Rupture	IS 13630 (part 6)2006
125	MECHANICAL- BUILDINGS MATERIALS	Tiles	Water Absorption	IS 13630 (part 2)2006
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials	Bend	IS1599
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials	Elongation	IS 1608 (Part 1)
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials	Hardness	IS 1586 (Part 1)

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129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Hardness	IS1586 (Part 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Mass per meter	IS 1786
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Tensile Strength	IS 1608 (Part 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials	Yield Stress	IS 1608 (Part 1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	End Immersion	IS 2202 - 1999
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	Glue Adhesion	IS 2202 - 1999
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	Knife Test	IS 2202 - 1999
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	Squareness	IS 2202-1999
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	Thickness	IS 2202-1999
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flush door shutter	Width	IS 2202 - 1999
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous materials	Bend	IS 1599
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous materials	Elongation	IS 1608 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous materials	Hardness	IS 1586 (Part 1)

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142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous materials	Mass per meter	IS 1786
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Materials	Tensile Strength	IS 1608 (Part 1)
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Pipes & Tubes	Flattening	IS 2328
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WOOD PRODUCTS/ Flush Door Shutter	Dimension (Height)	IS 2202 - 1999
146	MECHANICAL- SOIL AND ROCK	SOIL	California Bearing Ratio (CBR)	IS 2720 (part 16)1987
147	MECHANICAL- SOIL AND ROCK	SOIL	Free Swelling Index	IS 2720 (part 40)1977
148	MECHANICAL- SOIL AND ROCK	SOIL	Liquid Limit	IS 2720 (part 5)1985
149	MECHANICAL- SOIL AND ROCK	SOIL	Maximum Dry Density (MDD)	IS 2720 (part 8)1983
150	MECHANICAL- SOIL AND ROCK	SOIL	Optimum Moisture Content (OMC)	IS 2720 (part 8)1983
151	MECHANICAL- SOIL AND ROCK	SOIL	Plastic Limit	IS 2720 (part 5)1985
152	MECHANICAL- SOIL AND ROCK	SOIL	Specific Gravity	IS 2720 (part 3, sec 1)1980
153	MECHANICAL- TEXTILE MATERIALS	Fabrics	Elongation at Break	IS 15891PT3
154	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and Non Woven)	Resistance of Protective Clothing Materials to Penetration by Blood and Body Fluids using Synthetic Blood	ISO 16603 (Procedure A and B)
155	MECHANICAL- TEXTILE MATERIALS	Fabrics (woven & non woven)	Tensile strength	IS 15891 PT 3
156	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and non Woven)	ELONGATION AT BREAK	15891 PT3
157	MECHANICAL- TEXTILE MATERIALS	FABRICS (WOVEN AND NON WOVEN)	GSM	ISO 3801

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158	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and Non Woven)	Resistance of Protective Clothing Materials to Penetration by Blood and Body Fluids using Synthetic Blood.	IS 16546 (Procedure A and B)
159	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and non Woven)	TENSILE STRENGTH	IS 15891 PT 3
160	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and Non Woven)	THICKNESS	IS 7702
161	MECHANICAL- TEXTILE MATERIALS	Fabrics (Woven and non Woven)	THICKNESS	ISO 5084
162	MECHANICAL- WOOD AND WOOD PRODUCTS	MDF BOARD	DENSITY	IS2380-1977
163	MECHANICAL- WOOD AND WOOD PRODUCTS	MDF BOARD	MOISTURE CONTENT	IS2380: 1977
164	MECHANICAL- WOOD AND WOOD PRODUCTS	MDF BOARD	SWELLING IN WATER	IS 2380:1977
165	MECHANICAL- WOOD AND WOOD PRODUCTS	MDF BOARD	WATER ABSORPTION	IS2380:1977
166	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	DIMENSION- THICKNESS	IS 303:1989
167	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	DIMENSION- WIDTH	IS303:1989
168	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	GLUE ADHESION	IS1734:1983
169	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	LENGTH	IS303:1989
170	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	MOISTURE CONTENT	IS1734:1983
171	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	WATER ABSORPTION	IS2380:1977
172	MECHANICAL- WOOD AND WOOD PRODUCTS	PLYWOOD	WATER RESISTANCE	IS 1734:1983
173	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	DENSITY	IS2380:1977
174	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	MOISTURE CONTENT	IS2380:1977
175	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	RESISTANCE TO CIGARETTE	IS 2380:1977

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*The validity is extended for one year up to 13.02.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
176	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	RESISTANCE TO STEAM	IS2380:1977
177	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	SWELLING IN THICKNESS	IS2380:1977
178	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	WATER ABSORPTION	IS 2380:1977
179	MECHANICAL- WOOD AND WOOD PRODUCTS	PRE-LAMINATED PARTICLE BOARD	WATER ABSORPTION	IS2380:1977
180	MECHANICAL- WOOD AND WOOD PRODUCTS	VENEERED PARTICLE BOARD	DENSITY	IS 2380:1977
181	MECHANICAL- WOOD AND WOOD PRODUCTS	VENEERED PARTICLE BOARD	MOISTURE CONTENT	IS 2380:1977
182	MECHANICAL- WOOD AND WOOD PRODUCTS	VENEERED PARTICLE BOARD	WATER ABSORPTION	IS2380:1977
183	MECHANICAL- WOOD AND WOOD PRODUCTS	VENERRED PARTICLE BOARD	SWELLING IN THICKNESS	IS2380:1977
184	MECHANICAL- WOOD AND WOOD PRODUCTS	WOOD PRODUCTS	ADJUSTED SPECIFIC GRAVITY	IS1708(part 2)
185	MECHANICAL- WOOD AND WOOD PRODUCTS	WOOD PRODUCTS	MOISTURE CONTENT	IS287:1993