



ISO 9001 : 2008

रा०ल०उ०नि० तकनीकी सेवा केंद्र NSIC TECHNICAL SERVICES CENTRE  
 ड्रीय 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

S. No.	Sample Description	Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*
		Test Method	Standard Specification		Testing Charges	GST	Total	
<b>A CHEMICAL ANALYSIS OF METAL</b>								
1	Single Element (Purity)	-	-		500.00	90.00	590.00	11 Days
2	Ferrous Material (upto 5 Elements)			YES				
	i Manganese Steel	IS:228	IS:1870	YES	1500.00	270.00	1770.00	11 Days
	C, Mn, Si, S, P			YES				
	ii Plain Carbon Steel/ Cast iron/ Pig Iron	IS:228	IS:1870	YES	1500.00	270.00	1770.00	11 Days
	C, Mn, Si, S, P			YES				
	iii Alloy Steel/ Alloy Cast Iron (more than 5	IS:228	IS:1870	YES	2000.00	360.00	2360.00	11 Days
	Cr, Ni, Mo, V, W			YES				
	iv Alloying Elements (more than 5 elements)	IS:228	IS:1870	YES	2000.00	360.00	2360.00	11 Days
	Cr, Ni, Mo, V, W			YES				
	v Main Element Only	IS:228	IS:1870	YES	500.00	90.00	590.00	11 Days
	vi Ferrous Material (more than 5 Elements)	IS:228	IS:1870	YES	2000.00	360.00	2360.00	
3	Ferro Alloys upto 5 Elements			YES				
	i Main Element Only	IS:228	IS:1870	YES	500.00	90.00	590.00	11 Days
4	Non-Ferrous Material							
	i Copper Base	IS:3685	IS:1264, 318, 319	YES	2000.00	360.00	2360.00	11 Days
	ii Tin Base	IS:27	IS:26	YES	2000.00	360.00	2360.00	11 Days
	iii Lead Base	IS:1409	IS:27	YES	2000.00	360.00	2360.00	11 Days
	iv Aluminium Base	IS:504	IS:1285, 733, 737	YES	2000.00	360.00	2360.00	11 Days
<b>B MECHANICAL TESTS (DESTRUCTIVE)</b>								
1	i Dimension (each parameter: length, width, height, diameter)			YES	300.00	54.00	354.00	9 Days
2	i Tensile Test (Duly ready/ machined test	IS:1608		YES	1500.00	270.00	1770.00	11 Days
	(Tensile Strength, Elongation & Breaking Load)							
	ii Yield Stress/ Proof Stress	IS:1608		YES	500.00	90.00	590.00	11 Days
	iii Modulus of Elasticity				500.00	90.00	590.00	11 Days
	iv Machining Charges - Small Job Work				200.00	36.00	236.00	7 Days
	v Machining Charges - Heavy Job Work				500.00	90.00	590.00	7 Days
	vi Freedom from Defect				1000.00	180.00	1180.00	7 Days

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			Test Method	Standard Specification		Testing Charges	GST	Total	
3	i	Sling Set (8 legs)	-	As per customer Request		2000.00	360.00	2360.00	9 Days
	ii	Single Load Test	-			500.00	90.00	590.00	9 Days
4	Load Test								
	i	Breaking Load Test (Duly ready/ machined test samples with Fixture)				1000.00	180.00	1180.00	9 Days
		Wire Rope, Rod, Chain, Hook, Stay Set, Sisal Rope, Manila Rope etc.							
	ii	Complicated and heavy jobs will be charged extra				500.00	90.00	590.00	9 Days
	iii	Bend Test	IS: 1599		YES	500.00	90.00	590.00	9 Days
	iv	Rebend Test	IS: 1599			500.00	90.00	590.00	9 Days
	v	Reverse Bend Test	IS: 1599			500.00	90.00	590.00	9 Days
	vi	Face bend Test	IS: 1599			500.00	90.00	590.00	9 Days
	vii	Root Bend Test	IS: 1599			500.00	90.00	590.00	9 Days
	viii	Transverse Test				500.00	90.00	590.00	9 Days
	ix	Compression Strength	IS:516	IS:456	YES	1500.00	270.00	1770.00	9 Days
	x	Flattening	IS:2328			1000.00	180.00	1180.00	9 Days
	xi	Wrapping	IS:1755	IS:280		500.00	90.00	590.00	9 Days
xii	Weight per meter	IS:808		YES	500.00	90.00	590.00	9 Days	
5	i	Dynamometer (Load Verification) 20 T				5000.00	900.00	5900.00	9 Days
6	Measurement of Plating Thickness				YES				
	i	Anodic Coating (Al)	IS:5523	IS:1868	YES	1500.00	270.00	1770.00	9 Days
	ii	Mass of Zinc Coating determination	IS:6745	IS:4736	YES	1500.00	270.00	1770.00	9 Days
	iii	Uniformity of Zinc Coating Test (Dip Test)	IS:2629	IS:4736	YES	1500.00	270.00	1770.00	9 Days
	iv	Hard Chrome Plating	IS:3203	IS:1068	YES	1500.00	270.00	1770.00	9 Days
	v	Nickel Chrome Plating	IS:3203	IS:1068	YES	2000.00	360.00	2360.00	9 Days
	vi	Powder Coating	IS:101	IS:13871	YES	1500.00	270.00	1770.00	9 Days
7	Col				YES				
	i	Tensile Strength	IS:1608	IS:513	YES	1000.00	180.00	1180.00	11 Days
	ii	Yield Stress	IS:1608	IS:513	YES	500.00	90.00	590.00	11 Days
	iii	% Elongation	IS:1608	IS:513	YES	500.00	90.00	590.00	11 Days
	iv	Bend Test	IS:1599	IS:513	YES	500.00	90.00	590.00	11 Days
	v	Chemical Analysis (C,Mn,S,P)	IS:228	IS: 280	YES	1500.00	270.00	1770.00	11 Days
<b>C</b>	<b>BUILDING MATERIAL TESTING</b>								
1	Wooden Flush Door Shutters (Solid Core Type) / (a) Particle Board and Hardboard Face Panels (b) Plywood face panel								
	i	Dimension Test			YES				34 Days
		(a) Height	IS: 4020	IS: 2202	YES	300.00	54.00	354.00	
		(b) Width	IS: 4020	IS: 2202	YES	300.00	54.00	354.00	
		(c)Thickness	IS: 4020	IS: 2202	YES	300.00	54.00	354.00	
	ii	Squareness Test	IS: 4020	IS: 2202	YES	500.00	90.00	590.00	
	iii	General Flatness Test	IS: 4020	IS: 2202		500.00	90.00	590.00	
	iv	Impact Indentation Test	IS: 4020	IS: 2202		1500.00	270.00	1770.00	
v	Flexure Test	IS: 4020	IS: 2202		2500.00	450.00	2950.00		
vi	Edge Loading Test	IS: 4020	IS: 2202		500.00	90.00	590.00		
vii	Shock Resistance Test	IS: 4020	IS: 2202		4000.00	720.00	4720.00		

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			Test Method	Standard Specification		Testing Charges	GST	Total		
	viii	End Immersion	IS: 4020	IS: 2202	YES	2000.00	360.00	2360.00		
	ix	Glue Adhesion	IS: 4020	IS: 2202	YES	1500.00	270.00	1770.00		
	x	Knife Test	IS: 4020	IS: 2202	YES	500.00	90.00	590.00		
	xi	Screw withdrawal test	IS: 4020	IS: 2202		1000.00	180.00	1180.00		
	xii	Slamming test	IS: 4020	IS: 2202		500.00	90.00	590.00		
	xiii	Buckling test	IS: 4020	IS: 2202		500.00	90.00	590.00		
	2	Structural Timber/ Wood			IS: 883	YES				19 Days
	i	Moisture content	IS:287		YES	500.00	90.00	590.00		
	ii	Density/ Unit Mass	IS:399			500.00	90.00	590.00		
	iii	Modulus of Elasticity	IS:1708			1000.00	180.00	1180.00		
	iv	Modulus of Rapture	IS:1708			1000.00	180.00	1180.00		
	v	Compression Stress II to grain	IS:1708			500.00	90.00	590.00		
	vi	Compression Stress ⊥ to grain	IS:1708			500.00	90.00	590.00		
	vii	Feature Analysis	IS:1708			300.00	54.00	354.00		
	viii	Visual Test	IS:1708			200.00	36.00	236.00		
3	Block Board								34 Days	
i	Resistance to Water	IS:2380	IS:1659		2000.00	360.00	2360.00			
ii	Modulus of Rapture	IS:2380	IS:1659		1000.00	180.00	1180.00			
iii	Modulus of Elasticity	IS:2380	IS:1659		1000.00	180.00	1180.00			
4	Wood Particle Board		IS: 2380	IS: 3087	YES				19 Days	
i	Dimension			YES						
	(a) Height			YES	300.00	54.00	354.00			
	(b) Width			YES	300.00	54.00	354.00			
	(c)Thickness			YES	300.00	54.00	354.00			
ii	Water Absorption			YES	1000.00	180.00	1180.00			
iii	Swelling Test			YES	1000.00	180.00	1180.00			
iv	Modulus of Rapture				1000.00	180.00	1180.00			
v	Tensile Strength				1000.00	180.00	1180.00			
vi	Screw withdrawal test				1000.00	180.00	1180.00			
vii	Density				500.00	90.00	590.00			
viii	Modulus of Elasticity				1000.00	180.00	1180.00			
ix	Moisture content			YES	500.00	90.00	590.00			
5	Pre-laminated Particle Board		IS: 2380	IS: 12823	YES				19 Days	
i	Dimension			YES						
	(a) Height			YES	300.00	54.00	354.00			
	(b) Width			YES	300.00	54.00	354.00			
	(c)Thickness			YES	300.00	54.00	354.00			
ii	Water Absorption			YES	1000.00	180.00	1180.00			
iii	Swelling Test			YES	1000.00	180.00	1180.00			
iv	Modulus of Rapture				1000.00	180.00	1180.00			
v	Tensile Strength				1000.00	180.00	1180.00			
vi	Screw withdrawal test				1000.00	180.00	1180.00			

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			Test Method	Standard Specification		Testing Charges	GST	Total	
	vii	Density			YES	500.00	90.00	590.00	
	viii	Modulus of Elasticity				1000.00	180.00	1180.00	
	ix	Moisture content			YES	500.00	90.00	590.00	
	x	Resistance to Steam			YES	1000.00	180.00	1180.00	
	xi	Resistance to Crack				1000.00	180.00	1180.00	
	xii	Resistance to Stain				2000.00	360.00	2360.00	
	xiii	Resistance to Cigarette Burn			YES	500.00	90.00	590.00	
6	Medium Density Fiber Board		IS:2380	IS: 12406	YES				
	i	Dimension							
		(a) Size				300.00	54.00	354.00	
		(b) Thickness				300.00	54.00	354.00	
	ii	Water Absorption				500.00	90.00	590.00	
	iii	Swelling Test				1000.00	180.00	1180.00	
	iv	Modulus of Rapture				1000.00	180.00	1180.00	
	v	Tensile Strength				1000.00	180.00	1180.00	
	vi	Screw withdrawal test				1000.00	180.00	1180.00	
	vii	Density				500.00	90.00	590.00	
	viii	Modulus of Elasticity				1000.00	180.00	1180.00	19 Days
7	General Purpose Plywood		IS:1734	IS:303	YES				
	i	Dimension							
		(a) Size			YES	300.00	54.00	354.00	
		(b) Thickness			YES	300.00	54.00	354.00	
	ii	Glue Adhesion			YES				
		(a) Glue Shear Strength (Dry State)				1000.00	180.00	1180.00	
		(b) Mycological Test				1000.00	180.00	1180.00	
		(c) Water Resistance Test			YES	1000.00	180.00	1180.00	
	iii	Moisture content			YES	500.00	90.00	590.00	
	iv	Modulus of Rapture				1000.00	180.00	1180.00	
	v	Modulus of Elasticity				1000.00	180.00	1180.00	
8	Glass Fiber Reinforced Plastic (GRP)				YES				
	i	Fiber Glass Content	IS: 14856	IS: 14856	YES	1500.00	270.00	1770.00	
	ii	Tensile Strength	IS: 14856	IS: 14856		1000.00	180.00	1180.00	
	iii	Bending Strength	IS: 14856	IS: 14856		1000.00	180.00	1180.00	
	iv	Elastic modulus	IS: 14856	IS: 14856		1000.00	180.00	1180.00	
	v	Water Absorption	IS: 14856	IS: 14856		500.00	90.00	590.00	
9	Shuttering Plywood		IS:1734	IS: 4990					
	i	Dimension							
		(a) Size				300.00	54.00	354.00	
		(b) Thickness				300.00	54.00	354.00	

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			Test Method	Standard Specification		Testing Charges	GST	Total	
	ii	Moisture content				500.00	90.00	590.00	34 Days
	iii	Glue Shear Strength				1000.00	180.00	1180.00	
	iv	Modulus of Rapture				1000.00	180.00	1180.00	
	v	Modulus of Elasticity				1000.00	180.00	1180.00	
	vi	Water Resistance				2000.00	360.00	2360.00	
10	Marine Plywood		IS:1734	IS: 710					34 Days
i	Dimension								
	(a) Size				300.00	54.00	354.00		
	(b) Thickness				300.00	54.00	354.00		
ii	Glue Adhesion				1500.00	270.00	1770.00		
	(a) Glue Shear Strength	(P-4)			1000.00	180.00	1180.00		
	(b) Adhesion of Plies	(P-5)			1000.00	180.00	1180.00		
iii	Tensile Strength				1000.00	180.00	1180.00		
iv	Modulus of Rapture	(P-11)			1000.00	180.00	1180.00		
v	Modulus of Elasticity	(P-11)			1000.00	180.00	1180.00		
vi	Moisture content	(P-1)			500.00	90.00	590.00		
vii	Mycological Test	(P-7)			1000.00	180.00	1180.00		
viii	Water Resistance	(P-5)			2000.00	360.00	2360.00		
11	Fire Retardant Plywood		IS:1734	IS: 5509					34 Days
i	Dimension								
	(a) Size				300.00	54.00	354.00		
	(b) Thickness				300.00	54.00	354.00		
ii	Glue Adhesion				1500.00	270.00	1770.00		
iv	Modulus of Rapture				1000.00	180.00	1180.00		
v	Modulus of Elasticity				1000.00	180.00	1180.00		
vi	Glue Shear Strength				1000.00	180.00	1180.00		
vii	Rate of Burning				5000.00	900.00	5900.00		
viii	Moisture content				500.00	90.00	590.00		
12	Decorative Thermosetting Synthetic Resin Bonded Laminated Sheet (IS:2046-1995)								34 Days
i	Resistance to Immersion boiling water				1000.00	180.00	1180.00		
ii	Resistance to cracking				1000.00	180.00	1180.00		
iii	Resistance to staining				2000.00	360.00	2360.00		
iv	Resistance to steam				1000.00	180.00	1180.00		
13	High Strength Deformed Steel Bars and Wires			IS: 1786	YES				11 Days
i	Tensile Strength	IS:1608		YES	1000.00	180.00	1180.00		
ii	Proof Stress/ Yield Stress	IS:1608		YES	500.00	90.00	590.00		
iii	Elongation Percentage	IS:1608		YES	500.00	90.00	590.00		
iv	Bend	IS:1599		YES	500.00	90.00	590.00		
v	Rebend	IS:1599			500.00	90.00	590.00		
vi	Weight per meter			YES	500.00	90.00	590.00		
vii	Chemical Analysis - C, S, P	IS:228		YES	1000.00	180.00	1180.00		

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			Test Method	Standard Specification		Testing Charges	GST	Total	
14	Reinforcement Couplers for Mechanical Splices of Bars (IS 16172)								11 Days
	i	Tensile Strength	IS:1608			1000.00	180.00	1180.00	
15	Uncoated Stress Relieved Low Relaxation Seven Ply Strand (IS 14268)								11 Days
	i	Breaking Strength	IS:1608			1000.00	180.00	1180.00	
	ii	Proof Load	IS:1608			500.00	90.00	590.00	
	iii	Elongation Percentage	IS:1608			500.00	90.00	590.00	
	iv	Weight	IS:1599			500.00	90.00	590.00	
vii	Chemical Analysis - C, S, P	IS:228			1000.00	180.00	1180.00		
16	Galvanised Strand for Earthing			IS 12776					11 Days
	i	Breaking Strength	IS:1608			1000.00	180.00	1180.00	
	ii	Elongation Percentage	IS:1608			500.00	90.00	590.00	
	iii	Mass	IS:1608			500.00	90.00	590.00	
	iv	Wrapping	IS:1599			500.00	90.00	590.00	
vii	Zinc Coating				1500.00	270.00	1770.00		
17	Hot Rolled Medium and High Tensile Structural Steel (IS 2062)				YES				18 Days
	i	Tensile Strength	IS 1608		YES	1000.00	180.00	1180.00	
	ii	Yield Stress	IS 1608		YES	500.00	90.00	590.00	
	iii	Elongation Percentage	IS 1608		YES	500.00	90.00	590.00	
	iv	Bend	IS 1599		YES	500.00	90.00	590.00	
	v	Dimension			YES	1000.00	180.00	1180.00	
vi	Chemical Analysis (C, Mn, S, P, Si, CE)	IS 228		YES	2000.00	360.00	2360.00		
18	Lime Stone (Slabs and Tiles)			IS 1128					14 Days
	i	Water Absorption	IS 1124			500.00	90.00	590.00	
	ii	Transverse Strength	IS 1121			1000.00	180.00	1180.00	
iii	Durability test	IS 1126			10000.00	1800.00	11800.00	64 Days	
19	Sand Stone (Slabs and Tiles)			IS 3622					14 Days
	i	Water Absorption	IS 1124			500.00	90.00	590.00	
	ii	Transverse Strength	IS 1121			1000.00	180.00	1180.00	
	iii	Resistance to Wear	IS 1706			5000.00	900.00	5900.00	
iv	Durability test	IS 1126			10000.00	1800.00	11800.00	64 Days	
20	Structural Granite			IS 3316					14 Days
	i	Water Absorption	IS 1124			500.00	90.00	590.00	
	ii	Specific Gravity	IS: 1124			500.00	90.00	590.00	
iii	Compression Strength	IS: 1121-1			1000.00	180.00	1180.00		
21	Natural Building Stones			IS 1123					14 Days
	i	Specific Gravity	IS: 1124			500.00	90.00	590.00	
	ii	Compression Strength	IS: 1121-1			1000.00	180.00	1180.00	
	iii	Resistance to Abrasion	IS 1706			5000.00	900.00	5900.00	
	iv	Modulus of Elasticity				1000.00	180.00	1180.00	
	v	Porosity	IS: 1124			500.00	90.00	590.00	
vi	Tensile Strength	IS: 1121-1			1000.00	180.00	1180.00		

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22	Marble (Slabs, Blocks and Tiles)		IS:1124	IS:1130					14 Days	
	i	Moisture Absorption	IS: 1121-1			500.00	90.00	590.00		
	ii	Specific Gravity	IS: 1122			500.00	90.00	590.00		
	iii	Hardness (Mho's Scale)				500.00	90.00	590.00		
23	Cement Analysis OPC/ PPC		IS: 4032	IS: 269, IS:455, IS:1489, IS:12269, IS:8112	YES				34 Days	
	i	Chemical Test		IS:4032						
		(a) Ratio: (CaO-0.7SO <sub>3</sub> )/ (2.8SiO <sub>2</sub> +1.2Al <sub>2</sub> O <sub>3</sub> +0.65Fe <sub>2</sub> O <sub>3</sub> )				YES	1000.00	180.00		1180.00
		(b) Ratio: Alumina to Iron Oxide				YES	500.00	90.00		590.00
		(c) SO <sub>3</sub> by mass				YES	500.00	90.00		590.00
		(d) IR by mass				YES	500.00	90.00		590.00
		(e) MgO by mass				YES	500.00	90.00		590.00
		(f) Loss on Ignition				YES	500.00	90.00		590.00
	ii	Physical Test		IS:4031						
		(a) Setting time			IS:8112	YES	1000.00	180.00		1180.00
		(b) Compressive Strength (3, 7 and 28 days)			IS: 516	YES	3000.00	540.00		3540.00
		(c) Consistency		IS: 4031	IS:8112	YES	500.00	90.00		590.00
		(d) Soundness (Le Chatelier Method)		IS: 4031	IS:8112	YES	500.00	90.00		590.00
		(e) Soundness (Autoclave Method)		IS: 4031	IS:8112	YES	500.00	90.00		590.00
(f) Fineness (Sieve Method)		IS:4031	IS:8112	YES	500.00	90.00	590.00			
24	Manhole Cover		IS:12592	IS:12592					9 Days	
	i	Dimensions				2000.00	360.00	2360.00		
	ii	Load Test				2000.00	360.00	2360.00		
25	Precast Concrete Cable Covers		IS 5820	IS 5820					14 Days	
	i	Breaking Load/ Transverse Strength				1000.00	180.00	1180.00		
	ii	Impact Strength				1000.00	180.00	1180.00		
26	Concrete Cube				YES				9 Days	
	i	Compressive Strength	IS:516	IS: 456		1500.00	270.00	1770.00		
27	Concrete Core								11 Days	
	i	Compressive Strength	IS:516	IS: 456		1000.00	180.00	1180.00		
28	Water Tank Testing upto 500 l		IS 12701	IS 12701						
	i	Dimension				2000.00	360.00	2360.00		
	ii	Weight				500.00	90.00	590.00		
	iii	Tensile Strength	IS:8543(Sec -I)			1000.00	180.00	1180.00		
	iv	Resistance to Deformation				1000.00	180.00	1180.00		
	v	Resistance to Impact				500.00	90.00	590.00		

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			Test Method	Standard Specification		Testing Charges	GST	Total	
	vi	Density	IS:7828			1000.00	180.00	1180.00	24 Days
	vii	Black Carbon Dispersion				1000.00	180.00	1180.00	
	viii	Flexural Strength	IS:13360			1500.00	270.00	1770.00	
	ix	Visual Test				1000.00	180.00	1180.00	
	x	Top Load Resistance				1000.00	180.00	1180.00	
	xi	Portability Test				500.00	90.00	590.00	
	xii	*Capacity				500.00	90.00	590.00	
	*	Capacity above than 500 liters				1.00/ liter			
29	Building Bricks (Common Burnt Clay)		IS:3495	IS: 1077	YES				14 Days
	i	Dimension			YES	500.00	90.00	590.00	
	ii	Compressive Strength	(P-I)		YES	1500.00	270.00	1770.00	
	iii	Water Absorption	(P-II)		YES	500.00	90.00	590.00	
	iv	Efflorescence	(P-III)		YES	500.00	90.00	590.00	
30	Fly Ash / Ash Lime Bricks		IS:3495	IS: 13757/ IS: 12894	YES				14 Days
	i	Dimension			YES	500.00	90.00	590.00	
	ii	Compressive Strength	(P-I)		YES	1500.00	270.00	1770.00	
	iii	Water Absorption	(P-II)		YES	500.00	90.00	590.00	
	iv	Efflorescence	(P-III)		YES	500.00	90.00	590.00	
31	Sewer Bricks (Burnt Clay)		IS:3495	IS: 4885					14 Days
	i	Dimension				500.00	90.00	590.00	
	ii	Compressive Strength	(P-I)			1500.00	270.00	1770.00	
	iii	Water Absorption	(P-II)			500.00	90.00	590.00	
	iv	Efflorescence	(P-III)			500.00	90.00	590.00	
32	Concrete Masonary Unit			IS 2185 (Pt-1 & 2)					24 Days
	i	Dimension				500.00	90.00	590.00	
	ii	Block Density				500.00	90.00	590.00	
	iii	Compressive Strength				4000.00	720.00	4720.00	
	iv	Water Absorption				500.00	90.00	590.00	
	v	Drying Shrinkage				2000.00	360.00	2360.00	
33	Concrete Masonary Unit (AAC Block)			IS 2185 (Pt-3)					24 Days
	i	Dimension				500.00	90.00	590.00	
	ii	Block Density	IS 6441-1			500.00	90.00	590.00	
	iii	Compressive Strength	IS 6441-5			6000.00	1080.00	7080.00	
	iv	Drying Shrinkage	IS 6441-2			2000.00	360.00	2360.00	
34	Paver Blocks		IS 15658	IS 15658	YES				19 Days
	i	Compressive Strength			YES	4000.00	720.00	4720.00	
	ii	Water Absorption			YES	500.00	90.00	590.00	
	iii	Dimension (WxLxT)			YES	500.00	90.00	590.00	
	iv	Flexural Strength				4000.00	720.00	4720.00	
	v	Abrasion test				5000.00	900.00	5900.00	



S. No.	Sample Description	Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*
		Test Method	Standard Specification		Testing Charges	GST	Total	
35	Ceramic or Vitrified Tiles	IS:13630	IS: 15622					19 Days
	i Dimension				500.00	90.00	590.00	
	ii Water Absorption				500.00	90.00	590.00	
	iii Modulus of Rapture				1000.00	180.00	1180.00	
	iv Breaking Strength				500.00	90.00	590.00	
	v Scratch Hardness (Mho's Scale)				500.00	90.00	590.00	
	vi Chemical Resistance				1000.00	180.00	1180.00	
	vii Crazing Resistance				1000.00	180.00	1180.00	
viii Resistance to Thermal Shock				1000.00	180.00	1180.00		
36	Fine Aggregate, Coarse Sand	IS: 2386	IS:383	YES				19 Days
	i Sieve Analysis			YES	1500.00	270.00	1770.00	
	ii Specific Gravity			YES	1000.00	180.00	1180.00	
	iii Bulk Density			YES	1000.00	180.00	1180.00	
	iv Total Deleterious Material			YES	1500.00	270.00	1770.00	
	v Silt Content			YES	1000.00	180.00	1180.00	
	vi Bulking of Sand			YES	1000.00	180.00	1180.00	
	vii Water Absorption			YES	500.00	90.00	590.00	
	viii Soundness			YES	500.00	90.00	590.00	
ix Organic Impurities			YES	1500.00	270.00	1770.00		
37	Coarse Aggregate	IS: 2386	IS:383	YES				19 Days
	i Sieve Analysis			YES	1000.00	180.00	1180.00	
	ii Specific Gravity			YES	1000.00	180.00	1180.00	
	iii Bulk Density			YES	1000.00	180.00	1180.00	
	iv Water Absorption			YES	500.00	90.00	590.00	
	v Crushing Value			YES	1000.00	180.00	1180.00	
	vi 10% Fine Value			YES	1000.00	180.00	1180.00	
	vii Combined Flakiness & Elongation Index			YES	1000.00	180.00	1180.00	
	viii Total Deleterious Material			YES	1500.00	270.00	1770.00	
	ix Soundness			YES	500.00	90.00	590.00	
	x Impact Value			YES	500.00	90.00	590.00	
	xi Abration Value			YES	1000.00	180.00	1180.00	
xii Organic Impurities			YES	1500.00	270.00	1770.00		
38	Admixture - Uniformity test	IS 9103	IS 9103					11 Days
	i Dry Material Content				2000.00	360.00	2360.00	
	ii Ash Content				1500.00	270.00	1770.00	
	iii pH				500.00	90.00	590.00	
	iv Relative Density				1000.00	180.00	1180.00	
v Chloride Ion				1000.00	180.00	1180.00		
39	Water Proofing Compound							19 Days
	i Setting time	IS: 4031	IS:2645-2003		1000.00	180.00	1180.00	
	ii Compressive Strength 3, 7 days				3000.00	540.00	3540.00	
iii Chloride Content				1000.00	180.00	1180.00		
40	Semi Dense Bituminous Concrete		(MORTH)					14 Days
	i Bitumen Content % by mass				5000.00	900.00	5900.00	
ii Aggregate Size (Sieve Analysis)				1000.00	180.00	1180.00		
41	Construction Water	IS 3025	IS: 456	YES				

S. No.	Sample Description		Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*
			Test Method	Standard Specification		Testing Charges	GST	Total	
	i	0.02 N NaOH required to neutralize 100 ml				500.00	90.00	590.00	11 Days
	ii	0.02 N H <sub>2</sub> SO <sub>4</sub> required to neutralize 100 ml				500.00	90.00	590.00	
	iii	Sulphate (asSO <sub>3</sub> )				500.00	90.00	590.00	
	iv	Chloride (as cl)				500.00	90.00	590.00	
	v	Organic solids				500.00	90.00	590.00	
	vi	Inorganic solids				500.00	90.00	590.00	
	vii	Suspended matters				500.00	90.00	590.00	
	viii	pH				500.00	90.00	590.00	
42	Mix Design of Concrete								
	i	OPC/ PPC Cement upto M45 Grade		IS 10262		28000.00	5040.00	33040.00	46 Days
	ii	OPC/ PPC Cement with Fly Ash upto M45 Grade		IS 10262		32000.00	5760.00	37760.00	46 Days
43	Cement Mortar - Chemical Composition (Ratio test)		IS:1199			3500.00	630.00	4130.00	16 Days
44	UV Stabilized Fiber Glass Reinforced Plastic Sheet								
	i	Thickness	----	IS:12866		300.00	54.00	354.00	16 Days
	ii	Density	IS:12866	IS:12866		500.00	90.00	590.00	
	iii	Glass Content				1500.00	270.00	1770.00	
	iv	Water Absorption				500.00	90.00	590.00	
	v	Bolt Shear Test				1000.00	180.00	1180.00	
	vi	Load Deflection test				500.00	90.00	590.00	
	vii	Tensile Strength	IS:1998	IS:10192		1000.00	180.00	1180.00	
	viii	Cross Breaking Strength				1000.00	180.00	1180.00	
45	Gypsum Building Plaster								
	i	SO <sub>3</sub> by mass	IS:2542	IS:2547 (Pt.-I)		500.00	90.00	590.00	19 Days
	ii	CaO <sub>3</sub> percent by mass				500.00	90.00	590.00	
	iii	MgO %				500.00	90.00	590.00	
	iv	Na <sub>2</sub> O %				500.00	90.00	590.00	
	v	Loss on Ignition				500.00	90.00	590.00	
	vi	Setting time				1000.00	180.00	1180.00	
	vii	Transverse strength				1000.00	180.00	1180.00	
	viii	Soundness				500.00	90.00	590.00	
	ix	Residue on 1.8mm				1000.00	180.00	1180.00	
46	APP (Atactic Polypropylene Polymer) Water Proofing Membrane								
	i	Thickness of Membrane		CPWD Vol. II		300.00	54.00	354.00	19 Days
	ii	Weight of Membrane				500.00	90.00	590.00	
	iii	Tensile Strength (Longitudinal / Crosswise)				1000.00	180.00	1180.00	
	iv	Softening Point				500.00	90.00	590.00	
	v	Cold Flexibility				1000.00	180.00	1180.00	

S. No.	Sample Description	Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*
		Test Method	Standard Specification		Testing Charges	GST	Total	
<b>D</b>	<b>PIPE</b>							
1	RCC Hume Pipe/ SW Pipe	IS: 458	IS: 458					14 Days
i	Dimension				1500.00	270.00	1770.00	
ii	Water Absorption - 10 minute				500.00	90.00	590.00	
iii	Water Absorption - 24 hours				500.00	90.00	590.00	
iv	Reinforcement - HD/ MS Wire	IS:1608	IS:458, IS:432 (I&II), 280					
(a)	Yield Stress/ Proof Stress				500.00	90.00	590.00	
(b)	Tensile Strength				1000.00	180.00	1180.00	
(c)	Elongation				500.00	90.00	590.00	
(d)	Bend Test	IS:1599			500.00	90.00	590.00	
v	Chemical Analysis of HD/ MS Wire	IS:228			1500.00	270.00	1770.00	
2	HDPE/ LDPE/ UPVC Pipe		IS: 4984, 4985					14 Days
i	Dimension				1000.00	180.00	1180.00	
ii	Density	IS:7328			1000.00	180.00	1180.00	
iii	Reversion Test	IS:4984			1000.00	180.00	1180.00	
iv	Resistant to External Blow				500.00	90.00	590.00	
v	Sulphate Ash Content				1000.00	180.00	1180.00	
vi	Visual Test				200.00	36.00	236.00	
3	PVC Conduct Pipe	IS 9537-1	IS 9537-3					14 Days
i	Dimension (Dia & Thickness)				600.00	108.00	708.00	
ii	Bend Test				1000.00	180.00	1180.00	
iii	Compressive Test				1000.00	180.00	1180.00	
iv	Impact Test				500.00	90.00	590.00	
v	Resistance to Heat				500.00	90.00	590.00	
iv	Resistance to Burning				500.00	90.00	590.00	
5	CPVC Pipe		IS: 15778					14 Days
i	Dimension (φxTx Ovality)				1000.00	180.00	1180.00	
ii	Density	IS:7328			1000.00	180.00	1180.00	
iii	Reversion Test	IS:4984			1000.00	180.00	1180.00	
iv	Resistant to External Blow				500.00	90.00	590.00	
v	Flattening test				500.00	90.00	590.00	
vi	Visual Test				200.00	36.00	236.00	
4	M. S. Conduit Pipe	IS 9537-1	IS 9537-2	YES				10 Days
i	Dimension (Dia & Thickness)			YES	600.00	108.00	708.00	
ii	Bend Test			YES	1000.00	180.00	1180.00	
iii	Compressive Test			YES	1000.00	180.00	1180.00	
6	M. S. Pipe/ G. I. Pipe		IS: 1239, IS:4736					14 Days
i	Dimension							
(a)	Bore				300.00	54.00	354.00	
(b)	Outside Diameter				300.00	54.00	354.00	
(c)	Diameter (Minimum)				300.00	54.00	354.00	
(d)	Thickness				300.00	54.00	354.00	
ii	Weight per meter				500.00	90.00	590.00	
iii	Flattening test			YES	500.00	90.00	590.00	
iv	Breaking Load				500.00	90.00	590.00	
v	Tensile Strength	IS:1608		YES	1000.00	180.00	1180.00	

S. No.	Sample Description		Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*	
			Test Method	Standard Specification		Testing Charges	GST	Total		
		vi	Elongation	IS:1608		YES	500.00	90.00	590.00	14 Days
		vii	Bend Test	IS:2329		YES	500.00	90.00	590.00	
		viii	Chemical Analysis (C,Mn,S & P)	IS:228	IS: 1239	YES	1500.00	270.00	1770.00	
		ix	Zinc Coating	IS:6745	IS:4736	YES	1500.00	270.00	1770.00	
	7	S. S. Pipe		IS:1608	IS: 6911	YES				
	i	Dimension			YES	500.00	90.00	590.00		
	ii	Tensile Strength			YES	1000.00	180.00	1180.00		
	iii	Elongation			YES	500.00	90.00	590.00		
	iv	Proof Stress			YES	500.00	90.00	590.00		
	v	Chemical Analysis	IS:228		YES	2000.00	360.00	2360.00		
	vi	Hardness	IS:1586		YES	500.00	90.00	590.00		
	8	C. I. Pipe			IS: 3989, 1536					
	i	Dimension				1000.00	180.00	1180.00		
	ii	Mass				500.00	90.00	590.00		
iii	Hammer Test	IS:1536			500.00	90.00	590.00			
iv	Ring Test and Tensile Test	IS:1608			1000.00	180.00	1180.00			
<b>E STEEL WIRE FOR SPRINGS</b>										
1	i	Mechanical Properties			IS: 4454 (P-1)					14 Days
		(a)	Tensile Strength	IS:1608			1000.00	180.00	1180.00	
		(b)	Wrapping Test	IS:1755			500.00	90.00	590.00	
		(c)	Torsion				1000.00	180.00	1180.00	
		(d)	Bend Test	IS:1599			500.00	90.00	590.00	
	ii	Chemical Properties	IS:228			1500.00	270.00	1770.00		
<b>F POLYMER/ RUBBER</b>										
1	i	Density/ Specific Gravity		IS:3400	IS: 3400		500.00	90.00	590.00	9 Days
		Flexural Modulus			IS: 13360		1500.00	270.00	1770.00	9 Days
		Flexural Strength			ASTM D790		1000.00	180.00	1180.00	7 Days
		Hardness (Shore A/ Shore D)			IS: 13360		500.00	90.00	590.00	6 Days
		Tensile Strength and Elongation		IS:13360	IS: 3400, 13360		1000.00	180.00	1180.00	9 Days
<b>G</b>	1	Visual Test					200.00	36.00	236.00	
<b>H</b>	1	Professional Service (on-Site)					5000.00	900.00	5900.00	
<b>F SOIL TESTING</b>										
1	i	Maximum Dry Density / Optimum Moisture Content		IS: 2720-7&8			3500.00	630.00	4130.00	16 Days
		Plastic Limit		IS: 2720-5			1500.00	270.00	1770.00	9 Days
		Liquid Limit		IS: 2720-5			2000.00	360.00	2360.00	9 Days
		Sieve Analysis		IS: 2720-4			1000.00	180.00	1180.00	
		Sedimentation Method					1800.00	324.00	2124.00	
		Hydrometer Analysis					1000.00	180.00	1180.00	9 Days
		CBR		IS: 2720-16			9000.00	1620.00	10620.00	22 Days
		Free Swelling Index		IS: 2720-40			800.00	144.00	944.00	6 Days
		Porosity		IS: 2720			600.00	108.00	708.00	9 Days
		Triaxial Test ( C & Value)		IS: 2720-11			25000.00	4500.00	29500.00	24 Days

S. No.	Sample Description		Applicable Test Standard		NABL Accreditation YES/NO	Rate ₹ per Sample			Duration (Days)*
			Test Method	Standard Specification		Testing Charges	GST	Total	
		i). Un consolidated un-drained test				6000.00	1080.00	7080.00	
		ii). Consolidated undrained test without pour water pressure				5000.00	900.00	5900.00	
		iii). Consolidated un drain test without pour water pressure				6000.00	1080.00	7080.00	
		iv). Consolidated drained test on a). Sand & b). for Clays				8000.00	1440.00	9440.00	
		xi Direct Shear Test ( C & Value)	IS: 2720-13			10000.00	1800.00	11800.00	19 Days
		xii Shrinkage Limit Test	IS: 2720-6			1000.00	180.00	1180.00	9 Days
		xiii Classification of Soil	IS-1498			3000.00	540.00	3540.00	
<b>F</b>	<b>BITUMEN TESTING</b>								
	1	i Bitumen Content	IS 5317	IS 73		5000.00	900.00	5900.00	19 Days
		ii Penetration	IS 1203			1200.00	216.00	1416.00	
		iii Penetration Ratio	IS 1203			1200.00	216.00	1416.00	
		iv Specific Gravity	IS 1202			1200.00	216.00	1416.00	
		v Softening Point	IS 1205			1200.00	216.00	1416.00	
		vi Ductility	IS 1208			1200.00	216.00	1416.00	
		vii Bitumen Emulsion	IS 8887			7500.00	1350.00	8850.00	

\*It includes the time for sending samples from Collection point to the Centre, where actual testing will be done.