

RAJKOT METLAB SERVICES LLP

"Rajkot Lab gate" NH27, Opp JCB Showroom, Nr. Tulip Party Plot,

B/h Perfect Maruti Showroom, Vavdi, Rajkot, Gujarat 360004, India E: account@rajkotlab.com, +91 9725213601



FY 2024-25		3		Price List		(Construction Material Testing Division)	
Item	Test	Test Parameter	Unit Rate	Qty Required	Frequency For Test		
Cube / Beam 	Physical	Compressive Strength (3 Cube)	570	3 Nos.	No of Set Req 1-5 =1 6 -15 =2 16-30=3 31-50=4 51 & Above = 5		
		On Site Cube Casting within 15 Km	3250				
		Cube Curing (3 Cube)	330				
		Density (Avg of 3)	330				
		Flexure Strength (3 Beam)	1120				
		Flexure Beam Curing (3 Beam)	780				
		RCPT	6500				
		Water Penetration	6500				
Concrete Cores 	Physical	Compressive Strength / Core	680	Average of 3 Nos.	Average of Three readings per location		
		Specific Gravity & Water Absorption / Core	440				
		Density / Core	260				
		Concrete Core Drilling (Ø 150 x L350 max)	3900	Per Core			
		Concrete Core Drilling (Ø 100 x L350 max)	2600				
		Concrete Core Drilling (Ø 50 x L350 max)	2340				
		Polishing / Sulphur Capping Charges	520				
NDT 	Phy	Minimum Visit/Ideal Charge for Filed Test/Day (<15 Km)	2600	Per Point	As per requirements		
		Minimum Visit/Ideal Charge for Filed Test/Day (>15 Km)	6500				
		Transportation Charges for Field Test	On Req.				
		Rebound Hammer Test (Avg of 6 Reading)	910				
		Ultrasonic Pulse Velocity (Avg of 4 Reading)	910				
		Depth of Carbonation	360				
		Half Cell Potential Difference (Avg of 6)	1170				
Cement, GGBS, Fly Ash 	Physical	Consistency	330	50 Kg	At every 50 Mt and / or on change of source		
		Setting Time (Initial, Final)	650				
		Density	330				
		Fineness by Sieving	360				
		Compressive Strength(3, 7 & 28 Days)	1950				
		Soundness by Le-Chatlier Test	650				
		Soundness by Autoclave	3900				
		Specific Surface by Blaine's Permeability	1040				
		Moisture Content	310				
		Specific Gravity	330				
		Drying Shrinkage	3250				
	Chemical	Ratio of Lime to Silica Alumina & Iron Oxide	650				
		Ratio of Aluminum to Iron Oxide	650				
		Insoluble Residue	460				
		Magnesia	460				
		SO3	650				
		Loss on Ignition	650				
		Chloride	650				
		Particles retained on 45 µm Sieve	650				
Lime Reactivity Test	3250						

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
Coarse / Fine Aggregates WMM / Quarry Spaul / GSB 	Physical	Abrasion Value (LAA)		1950	For Coarse Aggregates 50 Kg & For Fine Aggregates 15 Kg	One test during working season or change of source
		Bulk Density		390		
		Elongation Index		650		
		Flakiness Index		650		
		Crushing Value		980		
		Silt Content		330		
		Gradation (Sieve Analysis)		650		
		Impact Value		980		
		Specific Gravity		650		
		10% Fine Value		980		
		Water Absorption		330		
		Petrographic Examination		19500		
		% of Voids		980		
		Striping Value		2600		
		Sand Equivalent		2600		
	Chemical	Soundness (5 Cycle)		1950		
		Chloride		650		
		Sulphate		650		
		pH		330		
		Deleterious Materials		980		
		Organic Impurities		980		
		Alkali Reactivity		2500		
Brunt clay / Flyash Bricks 	Physical	Compressive Strength (5 Nos)		2280	20 Nos.	1 set of test every 50,000 bricks & on change of brand mark
		Dimensions (20 Nos)		330		
		Efflorescence (5 Nos)		1950		
		Water Absorption (5 Nos)		1300		
Re bar / TMT 	Physical	TMT > TS, YS, %EL, Mass per Meter		-	3 No. of 1 Meter Length	Each set for each Dia of bars for every 20 Mt or Change of Heat / Lot No
		Specimen Dia Up To 20 mm		490		
		Specimen Dia Up To 22 To 30 mm		550		
		Specimen Dia Up To 32 to 36 mm		780		
		Specimen Dia 40 mm & Above		1720		
		Bend Test		360		
		Re-bend Test		390		
	C	Chemical (C, Si, Mn, P, S, Cr, Ni, Mo)		1220		
TMT Coupler 	Physical	Static Tensile (Pull Out) up to 20 mm		650	3 No. of 1 Meter Length	Each set for each Dia of bars for every 20 Mt or Change of Heat / Lot No
		Static Tensile (Pull Out) 25 to 32 mm		780		
		Static Tensile (Pull Out) 36mm & Above		1560		
		Slip Test up to 20 mm		1950		
		Slip Test 25 to 32 mm		2340		
		Slip Test 36 mm & Above		3250		
		Bend Test at 60 Degree		780		
	C	Chemical (C, Si, Mn, P, S, Cr, Ni, Mo)		1220		

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Item	Test	Test Parameter	Unit Rate	Qty Required	Frequency For Test		
Soil WMM / Quarry Spaul / GSB 	Physical	Atterberg's Limits	850	50 Kg	Once for approval of source and subsequently incase of doubt		
		Hydrometer Analysis	1950				
		Moisture Content	390				
		Modified Procter Test (MDD/OMC)	1950				
		Standard Procter Test (MDD/OMC)	1560				
		C.B.R. Test In Laboratory (Soaked)	1950				
		C.B.R. Test In Laboratory (Unsoaked)	1560				
		Box Shear / Direct Shear Test	1950				
		Specific Gravity	390				
		Free Swell Index	390				
		Consolidation	9750				
		Sieve Analysis	650				
		Unconfined Compressive Strength	1950				
		Pipette Method	1950				
		Shrinkage Limit	730				
		Swell Pressure	3250				
		F.D.D. / F.M.C. / N.M.C in Laboratory	390				
		Permeability Test - Constant Head Method	2340				
		Permeability Test - Falling Head Method	2340				
		Vane Shear Test	1950				
	Triaxial Test (TUU)	3250					
	Triaxial Test (TCU)	9750					
	Uniformity Coefficient (Cu)	1950					
	Chemical	Chloride	650	400 x 400 mm, Direction mark req.	Change of Heat / Lot No as per IS 2062 Tensile 2, Bend 2, Chemical 1, Impact 1 set Req.		
		Sulphate	650				
pH		330					
Organic Impurities		980					
Structure Steel (Pipe, Sheet, Plate, Angle, Beams, Channels, Metal crash barrier, Electric Poll, Anchor Cone, Wedge etc.)	Physical	Tensile Test Of Structure Steel	520	400 x 400 mm, Direction mark req.	Change of Heat / Lot No as per IS 2062 Tensile 2, Bend 2, Chemical 1, Impact 1 set Req.		
		Bend Test	360				
		Impact Test	1040				
		Hardness Test (HRC, HRB, BHN etc.)	520				
		Macro / Micro Examination	1040				
		Machining And Cutting Charges	On Req.				
		Galvanizing Test (Thickness, GSM, Adhesion)	1560				
	Chem.	Chemical (C,Si,Mn,P,S,Cr,Ni,Mo, Al,Cu)	1220				
		Grade Identification	1300				
Ducting Pipe / Sheathing Duct	Physical	Workability Test	1950	4 Mtr	On request		
		Transverse Load Test	1950				
		Water Loss Test	2340				
		Bond Test	4940				

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test	
Nut-Bolt or Foundation Bolt 	Physical	Tensile Test		650	3 Nos / Each Size	As per requirements	
		Wedge Load Test		650			
		Proof Load		650			
		Galvanizing Test (Thickness, GSM, Adhesion)		1560			
		Dimensions (Dia & Length)		260			
	C	Chemical (C, Si, Mn, P, S, Cr, Ni, Mo)		1220			
Strand Wire	P	TMT > TS, YS, %EL, Mass per Meter		2340	3 No. of 1 Meter Length	As per requirements	
	C	Chemical (C, Si, Mn, P, S, Cr, Ni, Mo)		1220			
Paver Blocks 	Physical	Compressive Strength (8 Blocks)		1370	26 Blocks	Each set for each lot	
		Water Absorption (3 Blocks)		390			
		Splitting Tensile Strength (8 Blocks)		2700			
		Abrasion Test (6 Blocks)		7280			
		Wearing Layer Thickness		2600			
		Flexure Strength		1950			
Hollow Block, Solid Blocks, Cover Block, AAC / CLC / CC 	Physical	Compressive Strength (3 Blocks)		570	20 Blocks	Each set for each lot	
		Water Absorption (3 Blocks)		620			
		Dimensions		650			
		Density (3 Blocks)		260			
		Moisture Movement (Avg of 3)		3250			
		Drying Shrinkage (Avg of 3)		3250			
		Cutting / Cube		390			
Field Test 		Pile Load Test (PullOut, Compression, Lateral)		On Req.	-	As per requirements	
		Pile Integrity Test		2600			
		Bridge Load Test		On Req.			
		Tile Adhesion / Pull out		On Req.			
		Pull Out/Proof Load Test (Adhesion, Grouting)					
		TMT upto 16 mm or 1-24T / Point		3900			
		TMT upto 20 mm or 25-30T / Point		On Req.			
		TMT upto 36 mm or 90T / Point		On Req.			
Tiles 	Physical	Water Absorption		910	15 Nos.	Each set for each lot	
		Dimension & Surface Quality		1950			
		Modules Of Rupture		4550			
		Chemical Resistance		860			
		Abrasion Test		7280			
		Tile Adhesive Strength Test		3900			
		Tile Adhesive Anti-slip Test		3900			
Admixture	Chemical	pH		330	1 Ltr	On request	
		Dry Material Content		650			
		Ash Content		650			
		Relative Density		650			
		Chloride		650			

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
Water 	Chemical	Alkalinity		330	2 Ltr	On request
		Acidity		330		
		Organic Matter		330		
		Inorganic Matter		330		
		pH Value		330		
		Sulphate		650		
		Chloride		650		
		Suspended Matter		200		
Bitumen / Emulsion 	Physical	Penetration Test		650	5 Kg	At change of source
		Ductility Test		1300		
		Softening Point Test		650		
		Absolute Viscosity		1300		
		Kinematic Viscosity		1300		
		Loss on Heating		860		
		Flash & Fire Point		860		
		Specific Gravity		650		
		Water Content Test		650		
		Solubility in Trichloroethylene		650		
		Viscosity Ratio		2600		
		Density		860		
		Residue on 600 µm		650		
		Viscosity by Say Bolt Furol Viscometer		1300		
		Residue by Evaporation		1300		
Soil Field Test 	Physical	Minimum Visit Charge for Field Test		6500	-	As per requirements
		Transportation Charges for Field Test		On Req.		
		MDD By Sand Replacement, Small / Medium		1040		
		MDD By Sand Replacement, Large		1560		
		MDD By Core Cutter		980		
		Standard Penetration Test (SPT)		1950		
		Plate Load Test		45500		
		Modulus of Subgrade Reaction (K-Value)		45500		
		Field CBR Test		On Req.		
		DCPT		On Req.		
		ERT Test		10400		
		Safe Bearing Capacity of Soil		On Req.		
		Trial Pit / Boring		On Req.		
Road Tests	Physical	Benkelman beam deflection		On Req.	-	As per requirements
		Falling Weight Deflectomete		On Req.		
		Bump Indicator		On Req.		

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
Bituminous Mix Test 	Physical	Thickness		260	Per Core	On request
		Density		520		
		% of Bitumen Contain		860		
		Marshal Stability / Flow Value		3430		
		Void Contain		780		
		VFB / VIM		1170		
		GMM Theoretical Maximum Specific Gravity		3250		
		Bitumen Core Cutting Charges		2600		
		Sieve Analysis		520		
Wood, Timber, Ply, Flush Door 	Phy.	Moisture Content		590	1 No.	Each set for each lot
		Density		980		
		End Immersion Test / Cycle		460		
		Thickness		260		
		Knife & Glue Adhesion Test		1950		
		Twist, Warping and Cupping Test		650		
		Local Planeness Test		650		
		Impact Indentation Test		650		
		Edge Loading Test		650		
		Shock Resistance test		1040		
		Bulking Resistance Test		1950		
		Slamming Test		1950		
		Misuse Test		1950		
		Varying Humidity Test		4550		
		Screw Withdrawal Resistance Test		2600		
Mix Design	Physical	Trial of Mix Design as per Client Spec.		3900	50 Kg Of Each Material	At the time of starting of concreting and redesigning if source of material is changed
		Mix Design Of Concr. Of Any Single Grade, 3 Trial		15600		
		Mix Design Of Concrete Using Flyash, 3 Trial		18200		
		Mix Design Of Concr. with Flexural, 3 Trial		18200		
		Accelerated Curing, Extra		3250		
		Mix Design For GSB		18200		
		Mix Design For WMM		18200		
		Mix Design Of PQC		18200		
		Mix Design Of DLC		16900		
		Mix Design Of Dense Bitumen M. D.		24570		
		Mix Design Of Self Compacted Concrete		25740		
		Mix Design (BC, SDBC, DBM)		20540		

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
Refractory Bricks	Physical	Cold Crushing Strength		1950	20 Nos.	As per requirements
		Modules of Rupture		590		
		True Density, Bulk Density & True Porosity		850		
		Dimension, Warpage		520		
Bulding Stone / Rubble / Rock	Physical	Cutting And Polishing per Core / Stone		2280	Rock = 3 Nos. Stone = 30 Nos.	Once for approval of source and subsequently incase of doubt
		Compressive Strength per Core / Stone		1950		
		Moisture Content		520		
		Water Absorption		520		
		Porosity		650		
		Point Load Index		1950		
		Density		650		
		Specific Gravity		650		
		Rock Shape		460		
		Abrasion Value		3900		
		Moh's Hardness		720		
		Shear Strength		2860		
		Slack Durability		3250		
Curing Compound	Physical	Water Loss		520	1 Ltr.	As per requirements
		Day Light Reflected with MGO		520		
		Dry to Touch		520		
		Coverage		520		
Chain Link Fencing Fabric	Physical	Tensile Test		520	1 sq. Mt. Piece	As per requirements
		Twist Test		520		
		Bend Test		440		
		Galvanizing Test		1300		
Aluminum Section	Physical	Anodizing Thickness		860	2 Nos. (1 Coated, 2 Uncoated)	At every change of brand mark / heat
		Powder Coating Thickness		860		
		Size And Thickness Test		360		
		Weight Per Section		180		
		Tensile Test		520		
		Sample Preparation For Tensile Test		700		
G.I. Barbed Wire	Physical	Ductility		520	3 Nos.	Each set for each lot
		Tensile Test		520		
		Sectional Weight		180		
	C	Mass Of Zinc Coating		780		

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
HDPE / PVC / SBS Membrane, Water Stopper	Phy	Tensile Strength / Direction / Sample		1560	1.0 Mtr. Length	As per requirements
		Elongation / Direction / Sample		1560		
		Puncture Test		1560		
		Hardness (Shore A)		700		
		Stability in Effect of Alkalies 7 & 28 Days		1950		
		Cold Bent @ -25 °C		780		
		Dimension		260		
		Accelerated Extraction Test		1040		
		Water Absorption		260		
PVC Pipe	Phy	Hydro Test		3430	1 Mtr Each Dia	As per requirements
		Tensile Test		1560		
	C	Resistance to Sulphuric Acid		1120		
G. I. Pipe	Physical	Tensile Test		520	1 Mtr Each Dia	As per requirements
		Sectional Weight / Dimension Test		180		
		Coating Thickness Test		650		
		Mass of Coating / Uniformity of Coating		650		
		Bend Test		390		
		Corrosion Test – SST 120 Hrs		1950		
S. S. Pipe	Physical	Tensile Test		520	1 Feet Each Dia	As per requirements
		Bend Test		520		
		Corrosion Test – SST 120 Hrs		390		
	C	*Chemical (C,Si,Mn,P,S,Cr,Ni,Mo, Al,Cu)		680		
Roofing Sheets, False Ceiling Panels	Physical	Tensile Strength		520	1 Mtr Length with full width	Each set for each size / Colour for every 25 Mt or Change of Heat / Lot No
		Dimension		260		
		Coating Class		390		
		Adhesion Test- T-Bend Adhesion Test		650		
		Adhesion Test- Reverse Impact Resistance		650		
		Pencil Hardness Test		1040		
		Scratch Hardness Test		1040		
		Salt Spray Resistance		1950		
		Humidity Resistance		1950		
		Solvent / Chemical Resistance Test		650		
		Dry Film Thickness		650		
	C	*Chemical (C, Si, Mn, P, S, Cr, Ni, Mo)		680		
Kerb Stone	Physical	Shape and dimension		260	-	As per requirements
		Bending strength		3900		
		Core test (Avg of 3)		1950		
		Core Cutting (Ø 75 mm) / Piece		1300		
		Water absorption (Avg of 3)		On Req.		

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Item	Test	Test Parameter		Unit Rate	Qty Required	Frequency For Test
Manhole Cove (Concrete / Cast Iron / FRP etc.)	Physical	Load Bearing Capacity		650	3 Nos with Frame	As per requirements
		Proof Load Test		650		
		Permanent set Test		650		
Geotextile / Geo composite / Geo Drain / Paraweb Etc.	Physical	Thickness @ 2kpa		720	-	As per requirements
		Mass per Unit		850		
		Tensile Strength / Direction / Sample		2600		
		Elongation / Direction / Sample		1950		
		CBR Puncture Strength		2600		
		In Plane Flow Capacity @ 100 Kpa / 200 Kpa		5200		
		AOS Apparent opening size		1950		
		Cone Penetration		1950		
		Tensile Strength Paraweb		3250		
Paint	Physical	Dry Film Thickness		650	-	As per requirements
		Gloss Value 60 °		650		
		Adhesion Test		650		
		Uniformity of coating		650		
		Gram per square meter (GSM)		1040		
		Salt Spray Resistance Test / 24 Hrs		650		
		Humidity Resistance / 24 Hrs		650		
		Flexibility / Bend Test		1040		
		Resistance to Water / Hot Water		650		
		Resistance to Acids / Oil / Chemicals etc.		1040		
		Impact Test		1040		
		Pencil Hardness		1040		
		Scratch Hardness		1040		
		Viscosity		1040		
		Density		1040		

Note: 18% GST, 10% NABL, 10% Witness per Personnel would be charged extra on above rates.