

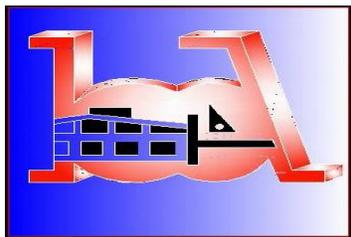


BHARGAVA BUILDING ATELIER PVT. LTD.

Soil Investigation & Building Material testing and Architect, Engineers, Interior , Valuer, Laboratory

Bhargava Building Atelier (P) Ltd.

Soil Investigation & Building Material testing and Architect, Engineers, Interior, Valuer,
Laboratory



Providing you better service with better performance

‘Test List’

**We have ISO & NABL Certificate Equipment's from Amil &
HIECO ensure better and reliable results**



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I - COARSE AGGREGATE

(As Per IS : 383, 2386)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Impact Value	2 Days	10 Kg
02	Sieve Analysis (Grading)	2 Days	10 Kg
03	Crushing Value	2 Days	20 Kg
04	Los Angeles/ Abrasion Value	2 Days	20 Kg
05	Water Absorption / Moisture Content	3 Days	5 Kg
06	Specific Gravity	3 Days	5 Kg
07	Bulk Density	2 Days	10 Kg
08	Flakiness Index	2 Days	20 Kg
09	Elongation Index	2 Days	20 Kg
11	10 % Fine Value	2 Days	20 Kg

II - FINE AGGREGATE / SAND

(As Per IS : 383, 2386)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Sieve Analysis (Grading) / Fineness Modulus	2 Days	10 Kg
02	Bulk Density	2 Days	5 Kg
03	Specific Gravity	2 Days	5 Kg
04	Water Absorption	3 Days	5 Kg
05	Surface Moisture Content	3 Days	5 Kg
06	Silt Content	2 Days	5 Kg



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III - CEMENT

{ As Per IS : 4031, 269, 1489 }

S. No.	Name of Test		Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Fineness	by Drying Sieving Test	2 Days	5 Kg
02		by Blaine's Air Permeability	3 Days	5 Kg
03	Standard Consistency of Paste		3 Days	5 Kg
04	Initial & Final Setting Time		3 Days	5 Kg
05	Soundness (Le - Chatelier Test)		3 Days	2 Kg
07	Density / Specific Gravity		3 Days	5 Kg
08	Tensile Strength		4 Days	3 Kg
09	Compressive Strength of cubes (including preparation of Sample)		30 Days	1 Full Bag

IV – CEMENT CONCRETE

{ As Per IS : 516, 10268, 1199 }

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Compressive Strength (Cement Concrete Cubes)	7 Days / 28 Days	Set of 3 Cubes
02	Concrete Mix Design (Including Lab Testing in Normal Condition)	11 Days / 32 Days	1 Bag Cement, 2 Bag Aggregate , 2 Bag Sand
03	Casting of C.C. Cube & Determination of Compressive Strength (Normal Condition)	10 Days at Field	1 Bag Cement, 1 Bag Aggregate , 1 Bag Sand
04	Slump Test	3 Days	-----
05	Compressive Strength of Cylindrical Core	7 Days / 28 Days	Set of 3 Core Sample

Argade Ki Gali, Dal Bazar Tiraha Gwalior-474009 (M.P.) Tel: 0751-2433176 e-mail:

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V – BRICK / TILES / PAVER BLOCK

(As Per IS : 1077, 3495 / IS 13630, 15622, 1237 / IS 15658)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
	<u>BURNT CLAY / FLYASH BRICKS :-</u>		
01	Dimension Tolerance	2 Days	10 Nos
02	Water Absorption	3 Days	5 Nos
03	Compressive Strength	6 Days	5 Nos
04	Efflorescence	4 Days	5 Nos
	<u>TILES :-</u>		
01	Water Absorption	3 Days	6 Nos
02	Dimension	2 Days	6 Nos
03	Abrasion Test	3 Days	6 Nos
04	Flexure Strength	3 Days	6 Nos
	<u>PAVER BLOCK :-</u>		
01	Water Absorption	3 Days	3 Nos
02	Compressive Strength	3 Days	3 Nos

V – WATER (CONSTRUCTION & DRINKING)

(As Per IS : 456 , 3025)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
	<u>CONSTRUCTION WATER :-</u>		
01	pH Value	5 Days	1 Ltr.
02	TDS Value		

V – STEEL

(As Per IS : 1786, 1608, 1599)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Tensile Strength (including Elongation & Weight Per Meter & Yield Stress)	3 Days	4 Nos.
02	Bend Test	3 Days	2 Nos.
03	Rebend Test	3 Days	2 Nos.

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VI – BITUMEN

(As Per IS : 1201; 1220; 1205; 1203; 1208; 1206; 3117; 8887 & ASTM D2172)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Specific Gravity	3 Days	5 Kg.
02	Softening Point	3 Days	5 Kg.
03	Penetration Value	3 Days	5 Kg.
04	Kinematic Viscosity	3 Days	5 Kg.
05	Ductility	3 Days	5 Kg.
06	Flash & Fire Point	3 Days	5 Kg.
08	Striping Values*	2 Days	3 Kg.
09	Bitumen Content / Binder Content	2 Days	5 Kg Bituminous Mix
10	Sieve Analysis (Grading)* (Including grading of B.M. / D.B.M. / S.D.B.C. / B.C. / W.M.M.)	2 Days	10 Kg



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VII – SOIL

(As Per IS : 2720)

S. No.	Name of Test	Minimum Period required for testing	Minimum Quantity of Sample Required for One Test
01	Natural Moisture Content	3 Days	1 Kg.
02	Sieve Analysis (Dry / Wet)	3 Days	5 Kg.
03	Hydrometer Test	5 Days	5 Kg.
04	Specific Gravity	3 Days	1 Kg.
05	Atterberg's Limit / Plasticity Index	Liquid Limit	5 Kg.
		Plastic Limit	
06	Shrinkage Limit	3 Days	2 Kg.
07	Wet Density	3 Days	2 Kg.
08	Dry Density	3 Days	2 Kg.
09	Standard Proctor Test (OMC & MDD for Light & Heavy Compaction)	3 Days	20 Kg.
10	C. B. R. Test	(Excluding M.D.D. + O.M.C.)	25 Kg.
		(Including M.D.D. + O.M.C.)	35 Kg.
11	Triaxial Test	4 Days	10 Kg.
12	Permeability Test	5 Days	20 Kg.
13	Free Swell Index Test	4 Days	10 Kg.
14	Swelling Pressure Test	4 Days	10 Kg.
15	Direct Shear Test	4 Days	10 Kg.
16	Consolidation Test / Void Ratio	9 Days	10 Kg.



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VIII – FIELD TEST

S. No.	Name of Test	Parameter	Minimum Period required for testing
01	Drilling from 0 to 3.5 Mtr (Including Standard Penetration Test)	0 to 3.50 Mtr.	At Site Time
02	Drilling from 0 to 6 Mtr (Including Standard Penetration Test)	0 to 6.0 Mtr.	At Site Time
03	Drilling beyond 6 Mtr in soil, Clay, Sand, Silty Strata.	R/M	At Site Time
	(a) Collection of U.D.S..	Per Interval	At Site Time
	(b) Collection of D.S..	Per Interval	At Site Time
04	Drilling in Hard Rock / Morrum / Soft Rock. (By Hydraulic Drilling Machine)	R/M	At Site Time
	(a) Collection of U.D.S.. (Core Box)	For Complete Bore	At Site Time
	(b) Collection of D.S..	Per Interval	At Site Time
05	Plate Load Test	At 1.5 Mtr. & 3.0 Mtr.	At Site Time
06	Trial Pit for Stratification	Up To 1.5 Mtr.	At Site Time
07	Trial Pit for Stratification	Up To 3.0 Mtr.	At Site Time
08	K- Value	---	At Site Time
09	Field Compaction / Field Density	Core Cutter Method	---
		Sand Replacement Method	
10	Core Cutting from the Structure / Pavement. (Including Compressive Strength)	Minimum 4 Nos. of Core at 1 Site	At Site Time

IX – NON DESTRUCTIVE TESTING (N.D.T.)

(As Per IS : 516 Part 5)

S. No.	Name of Test	Parameter	Minimum Period required for testing
01	Non Destructive Test (Mechanical / Digital)	Minimum 5 Nos. of Test	At Site Time
02	Ultrasonic Pulse Velocity Test	Minimum 5 Nos. of Test	At Site Time