



# GeoShikhar Infra

## Technical Consultant

ISO 9001-2015 Certified & MSME Registered Laboratory

### GEOTECHNICAL INVESTIGATION & BUILDING MATERIAL TESTING SERVICES

## ABOUT US

Geo Shikhar Infra Technical Consultant is a professional testing and consultancy organization specializing in geotechnical investigation and comprehensive building material testing services. We provide accurate, reliable, and standards-based testing solutions for infrastructure, construction, industrial, and civil engineering projects.

With a focus on quality, precision, and timely reporting, we help clients ensure the strength, durability, and safety of construction materials and foundations.

## OUR SERVICES

### Geotechnical Investigation

- Soil Investigation
- Borehole Drilling
- Standard Penetration Test (SPT)
- Plate Load Test
- Field Density Test
- California Bearing Ratio (CBR)
- Soil Bearing Capacity Analysis
- Subsurface Investigation
- Foundation Recommendations



## CONTACT US

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### Building Material Testing

#### Soil Testing

- Grain Size Analysis
- Atterberg Limits
- Compaction Test
- Moisture Content Test
- Specific Gravity Test
- Permeability Test
- Shear Strength Test



#### Aggregate Testing

- Sieve Analysis
- Crushing Value Test
- Impact Value Test
- Abrasion Test
- Water Absorption Test



#### Water Testing

- pH Value Test
- Chemical Analysis
- Potability Testing
- Chloride & Sulphate Testing

#### Brick Testing

- Compressive Strength Test
- Water Absorption Test
- Efflorescence Test
- Dimension Tolerance Test

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### Paver Block Testing

- Compressive Strength Test
- Water Absorption Test
- Abrasion Resistance Test

### Cement Testing

- Fineness Test
- Initial & Final Setting Time
- Soundness Test
- Compressive Strength Test

### Rock Testing

- Uniaxial Compression Test
- Point Load Test
- Water Absorption Test
- Density & Porosity Test

### Bitumen Testing

- Penetration Test
- Ductility Test
- Softening Point Test
- Viscosity Test
- Flash & Fire Point Test

### Concrete Cube Testing

- Compressive Strength Test
- Workability Test
- Density Test
- Durability Testing



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## PHYSICAL & CHEMICAL TESTING

We provide both Physical Testing and Chemical Testing services for construction materials as per relevant IS standards and project specifications.

### Physical Testing Includes:

- Strength Testing
- Density Testing
- Durability Testing
- Abrasion Testing
- Moisture Testing

### Chemical Testing Includes:

- Chemical Composition Analysis
- Sulphate & Chloride Analysis
- pH Testing
- Cement & Water Chemical Properties



## WHY CHOOSE US?

- Experienced Technical Team
- Accurate & Reliable Results
- Modern Laboratory Equipment
- Timely Test Reports
- Compliance with IS Standards
- Professional Consultancy Support

## INDUSTRIES WE SERVE

- Infrastructure Projects
- Highways & Roads
- Residential Buildings
- Commercial Projects
- Industrial Construction
- Government Projects
- Bridges & Foundations

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## IMPORTANCE OF GEOTECHNICAL INVESTIGATION & MATERIAL TESTING

A geotechnical investigation studies the soil, rock, groundwater, and subsurface conditions at the bridge site.

### 1. Selection of Suitable Foundation

Bridge loads must be safely transferred to the ground. Investigation helps determine:

- Whether shallow or deep foundations are required
- Pile length and diameter
- Bearing capacity of soil and rock

Without proper investigation, foundations may fail due to settlement or insufficient strength.

### 2. Prevention of Settlement and Failure

Different soil types behave differently under loads. Weak or compressible soils can cause:

- Uneven settlement
- Tilting of piers and abutments
- Cracking in the bridge structure

Geotechnical studies identify these risks early.

### 3. Evaluation of Scour and Erosion

For river bridges, investigations assess:

- Riverbed material
- Flow characteristics
- Scour depth around piers

This is essential to prevent collapse during floods.

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### 4. Seismic Safety

In earthquake-prone regions, soil behavior during shaking is analyzed to avoid:

- Liquefaction
- Excessive settlement
- Foundation instability

Importance of Material Testing in Bridges Material testing ensures that all construction materials meet required engineering standards and specifications.

### 1. Ensures Structural Strength

Testing verifies the strength of:

- Concrete
- Steel reinforcement
- Structural steel
- Aggregates

This ensures the bridge can safely carry traffic loads.

### 2. Quality Control

Regular testing during construction helps detect:

- Poor-quality concrete
- Defective steel
- Improper mix proportions
- Contaminated materials

Defective materials can then be rejected before use.

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## QUANTITY OF SAMPLE AS PER TEST

Sr. No.	Materials / Products Tested	Component / Parameter	Test Method / Equipment Used	Quantity per Sample	Minimum Time for
1	Coarse Aggregate	Acid Soluble Chlorides	IS 14959 (Part 2):2001	2 kg	3 days
2	Coarse Aggregate	Dissolve Silica	IS 2386 (Part 7):1963	2 kg	3 days
3	Coarse Aggregate	Reduction in Alkalinity	IS 2386 (Part 7):1963	2 kg	3 days
4	Coarse Aggregate	Water Soluble Sulphate	IS 14959 (Part 2):2001	2 kg	3 days
5	Fine Aggregate	Acid Soluble Chloride	IS 14959 (Part 2):2001	2 kg	3 days
6	Fine Aggregate	Acid Soluble Sulphate	IS 14959 (Part 2):2001	2 kg	3 days
7	Fine Aggregate	Dissolve Silica	IS 2386 (Part 7):1963	2 kg	3 days
8	Fine Aggregate	Reduction in Alkalinity	IS 2386 (Part 7):1963	2 kg	3 days
9	Admixture	Dry Material Content	IS 9103 (Annex E) 1999	2 Litre	5 days
10	Ordinary Portland Cement	Alumina	IS 4032 (Clause 4.6) 1985	1 kg	5 days
11	Ordinary Portland Cement	Calcium Oxide	IS 4032 (Clause 4.7) 1985	1 kg	5 days
12	Ordinary Portland Cement	Chlorides as Cl	IS 4032 (Amend.2) 1985	1 kg	5 days
13	Ordinary Portland Cement	Combined Ferric Oxide	IS 4032 (Clause 4.4) 1985	1 kg	5 days
14	Ordinary Portland Cement	Ferric Oxide	IS 4032 (Clause 4.5) 1985	1 kg	5 days
15	Ordinary Portland Cement	Insoluble Residue	IS 4032 (Clause 4.10) 1985	1 kg	5 days
16	Ordinary Portland Cement	Loss on Ignition	IS 4032 (Clause 4.2) 1985	1 kg	5 days
17	Ordinary Portland Cement	Loss on Ignition	IS 4032 (Clause 4.5) 1985	1 kg	5 days
18	Ordinary Portland Cement	Loss on Ignition	IS 4032 (Clause 4.5) 1985	1 kg	5 days
19	Ordinary Portland Cement	Magnesium Oxide	IS 4032 (Clause 4.8) 1985	1 kg	5 days
20	Ordinary Portland Cement	Silica as SiO <sub>2</sub>	IS 4032 (Clause 4.3) 1985	1 kg	5 days
21	Ordinary Portland Cement	Sulphuric Anhydride	IS 4032 (Clause 4.9) 1985	1 kg	5 days
22	Portland Pozzolana Cement	Insoluble Residue	IS 4032 (Clause 7.4) 1985	1 kg	5 days
23	Portland Pozzolana Cement	Loss on Ignition	IS 4032 (Clause 7.1) 1985	1 kg	5 days
24	Portland Pozzolana Cement	Loss On Ignition	IS 4032 (Clause 4.5) 1985	1 kg	5 days
25	Portland Pozzolana Cement	Magnesia	IS 4032 (Clause 7.2) 1985	1 kg	5 days
26	Portland Pozzolana Cement	Sulphuric Anhydride	IS 4032 (Clause 7.3) 1985	1 kg	5 days
27	Pozzolana Portland Cement	Loss on Ignition	IS 4032 (Clause 4.5) 1985	1 kg	5 days
28	Hardened Concrete	Acid Soluble Chlorides	IS 14959 (Part 2) 2001	1 kg	2 days
29	Hardened Concrete	Acid Soluble Sulphates	IS 14959 (Part 2) 2001	1 kg	2 days

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30	Admixture	Ash Content	IS 9103 (Annex E) 1999	2 Litre	4 days
31	Admixture	pH at 25°C	IS 9103 (Annex E) 1999	2 Litre	4 days
32	Admixture	Relative Density	IS 9103 (Annex E) 1999	2 Litre	4 days
33	Admixture	Water Soluble Chlorides	IS 6925:1973	2 Litre	4 days
34	Fly Ash	Calcium Oxide	IS 1727:1967	1 kg	4 days
35	Fly Ash	Loss in Ignition	IS 1727:1967	1 kg	4 days
36	Fly Ash	Magnesia	IS 1727:1967	1 kg	4 days
37	Fly Ash	Silica as SiO <sub>2</sub>	IS 1727:1967	1 kg	4 days
38	Fly Ash	Sulphuric Anhydride	IS 1727:1967	1 kg	4 days
39	Soil	Ammonical Nitrogen	IS 14684:1999	250ml	4 days
40	Soil	Electrical conductivity	IS 14767:2000	250ml	4 days
41	Soil	organic matter	IS 2720 ( part22):1972	250ml	4 days
42	Soil	pH at 25°C	IS 2720 ( part26):1987	250ml	4 days
43	Water for construction purpose	Total Suspended Solid	IS 3025 (Part 17) 2022	500 ml	5 days
44	Drinking Water	Calcium	IS 3025 (Part 40) 2024	500 ml	4 days
45	Drinking Water	Chloride as Cl	IS 3025 (Part 32) 1988	500 ml	4 days
46	Drinking Water	Colour	IS 3025 (Part 4):2021	500 ml	4 days
47	Drinking Water	Electrical Conductivity	IS 3025 (Part 14) 2013	500 ml	4 days
48	Drinking Water	Fluoride	IS 3025 (Part 22/Sec1):2023	1000 ml	4 days
49	Drinking Water	Magnesium	IS 3025 (Part 46) 2023	1000 ml	4 days
50	Drinking Water	Nitrate	IS 3025 (Part 34):1988	1000 ml	4 days
51	Drinking Water	Odour	IS 3025 (Part 5):2018	1000 ml	4 days
52	Drinking Water	pH at 25°C	IS 3025 (Part 11):2022	1000 ml	4 days
53	Drinking Water	Potassium (K)	IS 3025 (Part 45) 2024	1000 ml	4 days
54	Drinking Water	Sodium (Na)	IS 3025 (Part 45) 2024	1000 ml	4 days
55	Drinking Water	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24/Sec1) 2022	1000 ml	4 days
56	Drinking Water	Taste	IS 3025 (Part 8):2023	500 ml	4 days
57	Drinking Water	Temperature	IS 3025 (Part 9):2023	500 ml	4 days
58	Drinking Water	Total Alkalinity	IS 3025 (Part 23):2023	500 ml	4 days
59	Drinking Water	Total Dissolve Solid	IS 3025 (Part 16):2023	500 ml	4 days
60	Drinking Water	Total Hardness	IS 3025 (Part 21) 2009	500 ml	4 days
61	Drinking Water	Total Iron	IS 3025 (Part 53) 2024	500 ml	4 days
62	Drinking Water	Turbidity	IS 3025 (Part 10):2023	500 ml	4 days
63	Aggregate	Stripping Value	IS 6241:2024	500 gm	2 days
64	Membrane	Elongation	IS 13826 (Part 1):1993	---	2 days
65	Membrane	Weight	IS 16532:2017	---	2 days
66	Membrane	Softening Point	IS 1205:2022	---	2 days
67	Membrane	Tensile Strength	IS 13826 (Part 1):1993	---	2 days
68	Bitumen	Absolute viscosity at 60°C	IS 1206 (Part 2):2022	500 gm	2 days
69	Bitumen	Ductility	IS 1208:1978	500 gm	2 days
70	Bitumen	Flash and Fire Point	IS 1209:2021	500 gm	2 days
71	Bitumen	Float Test	IS 1210:2020	500 gm	2 days

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72	Bitumen	Kinematic viscosity at 135°C	IS 1206 (Part 3):2021	500 gm	2 days
73	Bitumen	Loss on Heating	IS 1212:2022	500 gm	2 days
74	Bitumen	Penetration at 25°C (100g, 5 sec, 0.1 mm)	IS 1203:2022	500 gm	2 days
75	Bitumen	Softening Point	IS 1205:2022	500 gm	2 days
76	Bitumen	Solubility of Trichloroethylene	IS 1216:2023	500 gm	2 days
77	Bitumen	Water Content	IS 1211:2022	500 gm	0 day
78	DBM/BC/BM	Air Voids	IRCSP125:2019	10 kg	5 days
79	DBM/BC/BM	Bulk Density	IS 17127:2019	10 kg	5 days
80	DBM/BC/BM	Marshal Flow	IS 17127:2019	10 kg	5 days
81	DBM/BC/BM	Marshal Stability	IS 17127:2019	10 kg	5 days
82	DBM/BC/BM	Sieve Analysis	IS 2386 (Part 1):1963	10 kg	2 days
83	DBM/BC/BM	Binder Content	IRCSP-112:2017	1000 gm	0 day
84	DBM/BC/BM	Effect of Water on Bituminous-Coated Aggregate Using Boiling Water	ASTMD-3625:2001	1000 gm	2 days
85	DBM/BC/BM	Theoretical Maximum Specific Gravity	IRC111 (Annex B) 2009	2000 gm	2 days
86	Wet Mix Macadam (WMM)	Elongation Index	IS 2386 (Part 1):1963	5 kg	2 days
87	Burnt Clay Building Brick	Compressive Strength	IS 3495 (Part 1):2019	5 Nos.	5 days
88	Burnt Clay Building Brick	Dimension (Height)	IS 1077:1992	20 Nos.	3 days
89	Burnt Clay Building Brick	Dimension (Length)	IS 1077:1992	20 Nos.	3 days
90	Burnt Clay Building Brick	Dimension (Width)	IS 1077:1992	20 Nos.	3 days
91	Burnt Clay Building Brick	Efflorescence	IS 3495 (Part 3):2019	5 Nos.	2 days
92	Burnt Clay Building Brick	Warpage	IS 3495 (Part 4):2019	5 Nos.	2 days
93	Burnt Clay Building Brick	Water Absorption	IS 3495 (Part 2):2019	5 Nos.	3 days
94	Cement Concrete Tile	Dimension (Length)	IS 1237:2012	5 Nos.	3 days
95	Cement Concrete Tile	Dimension (Thickness)	IS 1237 (Clause 7) 2012	5 Nos.	3 days
96	Cement Concrete Tile	Dimension (Width)	IS 1237 (Clause 7.0) 2012	5 Nos.	3 days
97	Cement Concrete Tile	Flatness	IS 1237 (Annex B) 2012	5 Nos.	3 days
98	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4):1963	10 kg	2 days
99	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4):1963	500 gm	2 days
100	Coarse Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3):1963	10 kg	2 days
101	Coarse Aggregate	Crushing Value	IS 2386 (Part 4):1963	5 kg	2 days

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102	Coarse Aggregate	Deleterious Material (Clay and lumps)	IS 2386 (Part 2):1963	200 gm	2 days
103	Coarse Aggregate	Deleterious Material (Coal & Lignite)	IS 2386 (Part 2):1963	200 gm	2 days
104	Coarse Aggregate	Elongation Index	IS 2386 (Part 1):1963	5 kg	2 days
105	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1):1963	5 kg	2 days
106	Coarse Aggregate	Loss Angeles Abrasion Value	IS 2386 (Part 4):1963	5 kg	2 days
107	Coarse Aggregate	Material Finer than 75 micron	IS 2386 (Part 1):1963	200 gm	2 days
108	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1):1963	10 kg	2 days
109	Coarse Aggregate	Soundness (By Magnesium Sulphate)	IS 2386 (Part 5):1963	200 gm	2 days
110	Coarse Aggregate	Soundness (By Sodium Sulphate)	IS 2720 (Part 5):1963	200 gm	2 days
111	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3):1963	1 kg	2 days
112	Coarse Aggregate	Water Absorption	IS 2386 (Part 3):1963	1 kg	2 days
113	Concrete Kerb Stone	Angle of Kerb	IS 5778 (Clause 6.1) 1978	10 Nos.	3 days
114	Concrete Kerb Stone	Compressive Strength	IS 516 (Part 1/Sec1) 2018	10 Nos.	3 days
115	Concrete Kerb Stone	Dimension (Length)	IS 5758:2000	5 Nos.	2 days
116	Concrete Kerb Stone	Dimension (Width)	IS 5758 (Annex B) 2020	5 Nos.	2 days
117	Concrete Kerb Stone	Water Absorption	IS 5758 (Annex) 2020	5 Nos.	2 days
118	Concrete Paver Block	Abrasion Resistance	IS 15658 (Annex E) 2021	5 Nos.	2 days
119	Concrete Paver Block	Compressive Strength	IS 15658 (Annex D) 2021	5 Nos.	5 days
120	Concrete Paver Block	Dimension (Thickness)	IS 15658 (Annex B) 2021	8 Nos.	2 days
121	Concrete Paver Block	Dimension (Width)	IS 15658 (Annex B) 2021	8 Nos.	2 days
122	Concrete Paver Block	Dimension (Length)	IS 15658 (Annex B) 2021	8 Nos.	2 days
123	Concrete Paver Block	Water Absorption	IS 15558 (Annex C) 2021	3 Nos.	3 days
124	Paver Block	Breaking Load	IS 15658 (Annex G) 2021	8 Nos.	2 days
125	Paver Block	Flexural Strength	IS 15558 (Annex G) 2021	8 Nos.	2 days
126	Paver Block	Thickness of Wearing Layer	IS 15658 (Clause 7.2) 2021	8 Nos.	2 days
127	Paver Block	Visual Inspection	IS 15558 (Clause 7.2) 2021	5 Nos.	2 days
128	Fine Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3):1963	20 kg	3 days
129	Fine Aggregate	Deleterious Material (Clay and Lumps)	IS 2386 (Part 2):1963	500 gm	2 days
130	Fine Aggregate	Deleterious Material (Coal and Lignite)	IS 2386 (Part 2):1963	500 gm	2 days

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131	Fine Aggregate	Material Finer Than 75 Micron	IS 2386 (Part 5):1963	500 gm	2 days
132	Fine Aggregate	Organic Impurities	IS 2386 (Part 2):1963	500 gm	2 days
133	Fine Aggregate	Sieve Analysis (10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 0.600 mm, 0.300 mm, 0.150 mm)	IS 2386 (Part 1):1963	10 kg	2 days
134	Fine Aggregate	Silt Content	CPWD (Volume-I, Clause 3.1.3.2):2019	250 gm	2 days
135	Fine Aggregate	Soundness (by magnesium sulphate)	IS 2386 (Part 5):1963	250 gm	2 days
136	Fine Aggregate	Soundness (By Sodium Sulphate)	IS 2386 (Part 5):1963	250 gm	2 days
137	Fine Aggregate	Specific Gravity	IS 2386 (Part 3):1963	2 kg	5 days
138	Fine Aggregate	Water Absorption	IS 2386 (Part 3):1963	2 kg	5 days
139	Fly Ash	Compressive Strength	IS 1727 (Clause 10) 1967	2 kg	5 days
140	Fly Ash	Density	IS 1727:1967	2 kg	2 days
141	Fly Ash	Fineness (by Blaine)	IS 1727 (Clause 6.1) 1967	500 gm	2 days
142	Fly Ash	Lime Reactivity	IS 1727 (Clause 9) 1967	500 gm	2 days
143	Fresh Concrete	Density	IS 1199 (Part 3):2018	5 kg	2 days
144	Fresh Concrete	Slump	IS 1199 (Part 2):2018	5 kg	2 days
145	Hardened Concrete (Concrete Beam)	Flexural Strength	IS 516 (Part 1/Sec1):2018	3 Nos.	3 days
146	Hardened Concrete (Concrete Cores)	Compressive Strength	IS 516 (Part 4):2018	3 Nos.	3 days
147	Hardened Concrete (Concrete Cube)	Compressive Strength	IS 516 (Part 1/Sec1):2018	3 Nos.	3 days
148	Ordinary Portland Cement	Compressive Strength	IS 4031 (Part 6):1988	9 Nos.	30 days
149	Ordinary Portland Cement	Consistency	IS 4031 (Part 4):1988	400 gm	2 days
150	Ordinary Portland Cement	Density	IS 4031 (Part 11):1988	100 gm	2 days
151	Ordinary Portland Cement	Fineness (By Blaine air Permeability)	IS 4031 (Part 2):1999	100 gm	2 days
152	Ordinary Portland Cement	Setting Time (Final Setting Time)	IS 4031 (Part 5):1988	400 gm	2 days
153	Ordinary Portland Cement	Setting Time (Initial Setting Time)	IS 4031 (Part 5):1988	400 gm	2 days
154	Ordinary Portland Cement	Soundness (by Autoclave Method)	IS 4031 (Part 3):1988	1000 gm	2 days
155	Ordinary Portland Cement	Soundness (by Le-chatelier Method)	IS 4031 (Part 3):1988	100 gm	2 days
156	GI Pipe	Mass/meter	IS 1239 (Part 1):2004	3 Nos.	2 days

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157	GI Pipe	Outside Diameter	IS 1239 (Part 1):2004	3 Nos.	2 days
158	GI Pipe	Tensile Strength	IS 1608 (Part 1):2004	3 Nos.	4 days
159	GI Pipe	Thickness	IS 1239 (Part 1):2004	3 Nos.	2 days
160	GI Pipes	Elongation	IS 1608 (Part 1):2004	3 Nos.	2 days
161	High density polyethylene Pipe	Outside Diameter	IS 4984:2016	3 Nos.	2 days
162	High density polyethylene Pipe	Density	IS 7328:2020	3 Nos.	2 days
163	High density polyethylene Pipe	Elongation	IS 1608 (Part 1):2004	3 Nos.	2 days
164	High density polyethylene Pipe	Tensile Strength	IS 1608 (Part 1):2004	3 Nos.	4 days
165	Poly Vinyl Chloride Pipe (PVC)	Density	IS 12235:2004	3 Nos.	2 days
166	Poly Vinyl Chloride Pipe (PVC)	Nominal Diameter	IS 12235 (Part 1):2004	3 Nos.	2 days
167	Poly Vinyl Chloride Pipe (PVC)	Thickness	IS 12235:2004	3 Nos.	2 days
168	Plywood	Density	IS 3468:1991	3 Nos.	2 days
169	Plywood	Moisture Content	IS 1734 (Part 1):1983	3 Nos.	2 days
170	Portland Pozzolana Cement	Compressive Strength	IS 4031 (Part 6):1988	9 Nos.	30 days
171	Portland Pozzolana Cement	Consistency	IS 4031 (Part 4):1988	400 gm	2 days
172	Portland Pozzolana Cement	Density	IS 4031 (Part 11):1988	100 gm	2 days
173	Portland Pozzolana Cement	Density	IS 4031 (Part 11):1988	100 gm	2 days
174	Portland Pozzolana Cement	Drying Shrinkage	IS 4031 (Part 10):1988	100 gm	2 days
175	Portland Pozzolana Cement	False Set	IS 4031 (Part 14):1989	100 gm	2 days
176	Portland Pozzolana Cement	Fineness (Dry Sieving)	IS 4031 (Part 1):1996	100 gm	2 days
177	Portland Pozzolana Cement	Heat of Hydration	IS 4031 (Part 9):1988	100 gm	2 days
178	Portland Pozzolana Cement	Setting Time (Final Setting Time)	IS 4031 (Part 5):1988	400 gm	2 days
179	Portland Pozzolana Cement	Setting Time (Initial Setting Time)	IS 4031 (Part 5):1988	400 gm	2 days
180	Portland Pozzolana Cement	Soundness (Autoclave Method)	IS 4031 (Part 3):1988	1000 gm	2 days
181	Portland Pozzolana Cement	Soundness (by Le-Chatelier Method)	IS 4031 (Part 3):1988	400 gm	2 days

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182	Autoclaved Cellular Concrete Block	Compressive Strength	IS 6441 (Part 5):1972	3 Nos.	3 days
183	Autoclaved Cellular Concrete Block	Density	IS 6441 (Part 1):1972	3 Nos.	2 days
184	Autoclaved Cellular Concrete Block	Dimension (Length)	IS 2185 (Part 3):1984	5 Nos.	2 days
185	Autoclaved Cellular Concrete Block	Dimension (Thickness)	IS 2185 (Part 3):1984	5 Nos.	2 days
186	Autoclaved Cellular Concrete Block	Dimension (Width)	IS 2185 (Part 3):1984	5 Nos.	2 days
187	Autoclaved Cellular Concrete Block	Moisture Content	IS 6441 (Part 1):1972	5 Nos.	2 days
188	Wet Mix Macadam (WMM)	Flakiness Index	IS 2386 (Part 1):1963	10 kg	4 days
189	Wet Mix Macadam (WMM)	Impact Value	IS 2386 (Part 4):1963	500 gm	2 days
190	Wet Mix Macadam (WMM)	Liquid Limit	IS 2720 (Part 5):1985	200 gm	2 days
191	Wet Mix Macadam (WMM)	Los Angeles Abrasion Value	IS 2386 (Part 3):1963	10 kg	2 days
192	Wet Mix Macadam (WMM)	Sieve Analysis (75 mm, 45 mm, 26.5 mm, 22.4 mm, 11.4 mm, 4.75 mm, 2.36 mm, 0.600, 0.075 mm)	IS 2386 (Part 1):1963	10 kg	2 days
193	Wet Mix Macadam (WMM)	Water Absorption	IS 2386 (Part 3):1963	2 kg	2 days
194	Wet Mix Macadam (WMM)	Plastic Limit	IS 2720 (Part 5):1985	200 gm	2 days
195	HT Strand Wire	Breaking Load	IS 1608 (Part 1):2022	3 Nos.	2 days
196	HT Strand Wire	Elongation	IS 1608 (Part 1):2022	3 Nos.	2 days
197	HT Strand Wire	Mass/meter	IS 14268 (Annex B):2022	3 Nos.	2 days
198	HT Strand Wire	Outside Diameter	IS 14268 (Annex B):2022	3 Nos.	2 days
199	Reinforcement Steel TMT Bar	Bend Test (8 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 32 mm, 40 mm, 56 mm, 60 mm, 64 mm, 96 mm, 120 mm, 128 mm, 150 mm, 192 mm, 240 mm)	IS 1599:2023	3 Nos.	5 days
200	Reinforcement Steel TMT Bar	Elongation	IS 1608 (Part 1):2022	3 Nos.	2 days
201	Reinforcement Steel TMT Bar	Mass/meter	IS 1786:2008	3 Nos.	2 days

## CONTACT US

Kiratpur Sahib, Nangal Chandigarh Highway, District - Rupnagar, Punjab, India, Pin Code: 140116

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202	Reinforcement Steel TMT Bar	Re-bend (40 mm, 48 mm, 50 mm, 60 mm, 72 mm, 80 mm, 100 mm, 125 mm, 160 mm, 200 mm, 240 mm)	IS 1786:2008	3 Nos.	5 days
203	Reinforcement Steel TMT Bar	Ultimate Tensile Strength	IS 1608 (Part 1):2022	3 Nos.	5 days
204	Reinforcement Steel TMT Bar	Yield Stress	IS 1608(Part1):2022	3 Nos.	5 days
205	Structural Steel	Bend Test (12mm,16mm, 20mm,24mm,32mm,40mm,50 mm,90mm,96 mm,120mm)	IS 1599:2023	3 Nos.	5 days
206	Structural Steel	Elongation	IS 1608(Part1):2022	3 Nos.	5 days
207	Structural Steel	Yield Strength	IS 1608(Part1):2022	3 Nos.	5 days
208	Structure Steel	Tensile Strength	IS 1608(Part1):2022	3 Nos.	5 days
209	W-Beam/Post Channel/Spacer Channel	Elongation	IS 1608(Part1):2022	3 Nos.	5 days
210	W-Beam/Post Channel/Spacer Channel	Length	IS 5986:2017	3 Nos.	2 days
211	W-Beam/Post Channel/Spacer Channel	Thickness	IS 5986:2017	3 Nos.	2 days
212	W-Beam/Post Channel/Spacer Channel	Ultimate Tensile Strength	IS 1608(Part1):2022	3 Nos.	5 days
213	W-Beam/Post Channel/Spacer Channel	Yield Stress	IS 1608(Part1):2022	3 Nos.	5 days
214	Non-Ferrous Metals	Tensile Strength	IS 1608(Part1):2022	3 Nos.	5 days
219	Granular Sub-base / Water Bound Macadam	Sieve Analysis 75mm, 53mm, 26.5mm, 9.5mm, 4.75mm, 2.36mm, 0.850mm, 0.425mm, 0.075mm	IS 2386(Part1):1963	20 kg	2 days
220	Soil	Angle of Internal Friction (Triaxial Method)	IS 2720(Part11):1993	2 kg	4 days
221	Soil	California Bearing Ratio (Soaked Condition)	IS 2720(Part16):1987	20 kg	15 days
222	Soil	Coefficient of Consolidation	IS 2720(Part15):1965	2 kg	4 days
223	Soil	Cohesion (Triaxial Method)	IS 2720(Part11):1993	2 kg	4 days
224	Soil	Cohesion (Direct Shear Method)	IS 2720(Part13):1986	5 kg	2 days

### CONTACT US

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225	Soil	Free Swell Index	IS 2720(Part40):1977	2 kg	2 days
226	Soil	Grain Size Analysis (0.002mm–4.75mm) Hydrometer Method	IS 2720 (Part 4, Clause 5.2):1985	2 kg	2 days
227	Soil	Liquid Limit	IS 2720(Part5):1985	200 gm	7 days
228	Soil	Maximum Dry Density (Heavy Compaction)	IS 2720(Part8):1983	10 kg	7 days
229	Soil	Maximum Dry Density (Light Compaction)	IS 2720(Part7):1980	10 kg	7 days
230	Soil	Optimum Moisture Content (Heavy Compaction)	IS 2720(Part8):1983	10 kg	7 days
231	Soil	Optimum Moisture Content (Light Compaction)	IS 2720(Part7):1980	10 kg	7 days
232	Soil	Plastic Limit	IS 2720(Part5):1985	200 gm	2 days
233	Soil	Plasticity Index	IS 2720(Part5):1983	200 gm	2 days
234	Soil	Resistance to Shear (Direct Shear Method)	IS 2720(Part13):1986	2 kg	4 days
235	Soil	Shrinkage Limit	IS 2720(Part5):1985	500 gm	2 days
236	Soil	Specific Gravity	IS 2720(Part3/Sec1):1980	1000 gm	2 days
237	Soil	Swelling Pressure	IS 2720(Part41):1977	500 gm	2 days
238	Soil	Water Content	IS 2720(Part2):1973	500 gm	2 days
239	Soil	Permeability	IS 5529(Part1):2013	2 kg	2 days
240	Rock	Point Load Strength Index	IS 8764:1988	5 Nos.	3 days
241	Rock	Porosity	IS 13030:1991	5 Nos.	2 days
242	Rock	Specific Gravity	IS 1124:1974	5 Nos.	3 days
243	Rock	Water Absorption	IS 1124:1974	5 Nos.	2 days

### CONTACT US

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244	Reinforced Concrete	Pull Out Test	IS 2770(Part1):1967	---	5 days
245	Soil	Field Dry Density (by Core Cutter Method)	IS 2720(Part29):1975	---	5 days
246	Soil	Field Dry Density (by Sand Replacement Method)	IS 2720(Part28):1974	---	5 days
247	Soil	Dynamic Cone Penetration	IS 10042:1981	---	7 days
248	Soil	Earth Resistivity Test (ERT)	IS 3043:2018	---	7 days
249	Soil	Field California Bearing Ratio	IS 2720(Part31):1990	---	7 days
250	Soil	Modulus of Sub Grade Reaction (K Value)	IS 9214:1979	---	7 days
251	Soil	Strain Modulus (EV2)	RDSO (Para 2.0 of Appendix-H):2020	---	7 days
252	Concrete Pile	Lateral Load	IS 2911(Part4):2013	---	7 days
253	Concrete Pile	Vertical Load	IS 2911(Part4):2013	---	7 days
254	Soil	Plate Load Test	IS 1888:1982	---	7 days
255	Soil	Standard Penetration Test (SPT N Value)	IS 2131:1981	---	7 days
256	Reinforcement Concretes	Carbonation Test	IS 516 (Part5/Sec3):2021	---	3 days
257	Reinforcement Concretes	Tructr Cover Depth	BS 1881-204:1988	---	3 days
258	Reinforcement Concrete Structure (Building Slab, Bridge)	Deflection Measurement (Bridge Load Test)	IRCSP-51:2014	---	30 days
259	Reinforcement Concretes	Half Cell Potential	IS 516 (Part5/Sec2):2021	---	7 days
260	Reinforcement Concrete Structure (Pile)	Pile Integrity Test	IS 14893:2021	---	7 days
261	Reinforcement Concrete Structure	Rebound Number	IS 516 (Part5/Sec4):2020	---	3 days
262	Reinforcement Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part5/Sec1):2018	---	3 days

### CONTACT US

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**WORK ORDER**



**Larsen & Toubro Limited,  
Construction**

PB No 979, Mount-Poonamallee Road,  
Manapakkam, Chennai - 600089,  
Tamil Nadu, India  
GIN - L99999MH1946PLC004768  
Tel No. 044-22529000  
Fax No. 044-22529099  
Website: <http://www.larsen-tco.com>

ORDER NO. : LE/LE21M073/WOD/26/000127

WO DATE : 18-Mar-2026

LATEST AMENDMENT : 0

AMENDMENT DATE : ---

VALUE : ---

STATUS : Authorized

**Order Essentials**

Job : LE21M073 - Rishikesh Karanprayag Tunnel - Pkg 4

Payment Centre : 52000010 - Shared Services Centre - Accounting Center

Type : Professional - Audit, Legal, HR, Retainer fee

Service Group : Revenue

WO Period : 25-Feb-2026 to 10-Jun-2026

Currency : Indian rupee

RFQ Ref. No. : LE/LE21M073/RFQ/26/000487

LD Clause : Not Applicable

GTC : Accepted

Last Bill Number : 0

Bill Type : Running Bill

**Vendor Details**

Name : PI2501015281000 - DUN TESTING & RESEARCH LABORATORIES OPC PRIVATE LIMITED

Address : THDC COLONY, T A ESTATE, BANJARAWALA ROAD, NEAR UCO BANK, Dehradun

State : Uttarakhand

Country : India

Mobile : 7055777732

Phone : ---

Email : dtr77779@gmail.com

BQ Ref. No. : 1

WO Accepted By : ---

WO Accepted On : ---

**Statutory Details**

Job GST : 05AAALD140P1ZP

Job PAN : AAALD140P

**Vendor GST** : 05AALCD4973B1ZQ

**Vendor PAN** : AALCD4973B

**Billing To**

Saur Village

Devprayag- Pauri Road

Devprayag Tehri Garhwal-249301

CIN-L99999MH1946PLC004768

**Execution At**

Saur Village

Devprayag- Pauri Road

Devprayag Tehri Garhwal-249301

CIN-L99999MH1946PLC004768

**Nature of Scope**

SPT

**Refer Annexure Details**

Item Abstract - Cost Package/WBS Details, Delivery Schedule, Itemwise Tax Details, Additional Terms & Conditions

**Declaration** :

**Items Abstract**

Description - Code	Quantity	UOM	Rate	Tax	Total Value
POST-SHIPMENT CHARGES: Destination Handling; Freight Charges;					
Additional Description : NA - 8E302500410000					
(SAC: 18% - Technical testing and analysis services - Technical testing and analysis services - 18% - Technical testing and analysis services - 998346)					

Report Generated at 18-Mar-2026 4:06:57 PM

Page 1 of 6

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\*Save Paper! Save Trees! - View WorkOrder digitally...!

## CONTACT US

Kiratpur Sahib, Nangal Chandigarh Highway, District - Rupnagar, Punjab, India, Pin Code: 140116

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ऑयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड  
OIL AND NATURAL GAS CORPORATION LIMITED  
वेधन प्रौद्योगिकी संस्थान  
INSTITUTE OF DRILLING TECHNOLOGY  
कौलागढ़ रोड, देहरादून - KAULAGARH ROAD, DEHRA DUN

An Integrated QHSE Certified Institute (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018)

S.No. IDT/SUPPORT/HR-ER/2025/WatrTest/2667417

Date . 03.11.2025

To,  
M/s Dun Testing & Research Laboratories,  
T-Estate, Bhagiratipuram, THDC Colony,  
Banjarawala, Dehradun

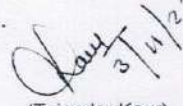
**Sub: Drinking Water Sample Testing of 08 Samples at IDT**

Dear Sir,

You are requested to kindly collect the 08 Nos. samples of drinking water and submit the report as per rates quoted in your quotation dated 23.10.2025.

You are requested to raise invoice digitally signed mentioning your Vendor Code and ONGC GSTIN, through VIMS portal, so that payment can be made earliest.

Yours sincerely,

  
(Tajender Kaur)  
HR Executive  
IDT-ONGC, Dehradun

## CONTACT US

Kiratpur Sahib, Nangal Chandigarh Highway, District - Rupnagar, Punjab, India, Pin Code: 140116

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इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
वायु सेना स्टेशन सरसावा  
सहारनपुर-247232, उत्तर प्रदेश



INDIAN OIL CORPORATION LTD.  
AIR FORCE STATION SARSAWA  
SAHARANPUR-247232, UTTAR PRADESH

Ref No-IOC/SSW/335

Date: 10.04.2024

DTRL  
Laboratories  
Dehradun, UK

**SUB: Dye Penetration Test of welding joint at Sarsawa AFS**

Sir,

1. As per telephonic discussion, there is requirement of Dye Penetration Test of welding joint of circular disc having diameter of 1 foot.
2. It is requested that the mentioned test be performed at the earliest and test report shall be provided.

Your Sincerely,

  
विनेश कार्णबोज  
Vinesh Karnboj  
स्टेशन मैनेजर  
Station Manager  
वायु सेना स्टेशन, सहारनपुर लि. (मिडो)  
Indian Oil Corporation Ltd. (MD)  
वायु सेना स्टेशन, सरसावा  
Air Force Station, Sarsawa  
सहारनपुर-247232  
Saharanpur-247232

## CONTACT US

Kiratpur Sahib, Nangal Chandigarh Highway, District - Rupnagar, Punjab, India, Pin Code:  
140116

Phone: +916239435583, +919872835583 | Email : geoshikhar642@gmail.com



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कार्यालय सहायक अभियन्ता, रा0मा0 खण्ड  
लोक निर्माण विभाग, डोईवाला

OFFICE OF THE ASSISTANT ENGINEER, N.H. P.W.D., Doiwala

E-Mail-eehdoiwala@gmail.com

Website-<http://pwd.uk.gov.in>

Phone & Fax: 01352695884



पत्रांक:- /

दिनांक / / 2022

सेवा में,

Doon Testing & Research Lab,  
T-Estate, Bhagirathipuram,  
THDC Colony, Banjarawala, Dehradun.

**विषय:-** केन्द्रीय सड़क अवसंरचना निधि के अन्तर्गत जमुपद देहरादून के विकासखण्ड डोईवाला के अन्तर्गत भागियावाला ऋषिकेश मोटर मार्ग के कि0मी0 15 में 280 मीटर PSG गर्डर सेतु का निर्माण।

**अनुबन्ध संख्या:-** 25/SE-NH-10/2021-22 Dated 07.01.2022

**ठेकेदार का नाम:-** M/s Himalayan Construction, Sarthi Vihar, Dehradun.

महोदय,

उपरोक्त विषयक सन्दर्भित अनुबन्ध के अनुसार निर्माण में प्रयुक्त M-45 के नमूने Testing हेतु निम्नवत् प्रेषित किये जा रहे हैं:-

क्र0 सं0	परीक्षण का प्रकार	Date of Casting	नमूने की संख्या
1	Compressive Strength (Cube) G5 (M-45)	13.03.2022	02 Set
2	Compressive Strength (Cube) G6 (M-45)	20.03.2022	02 Set
3	Compressive Strength (Cube) G7 (M-45)	20.03.2022	02 Set
4	Compressive Strength (Cube) A1 Final Lift (M-30)	12.03.2022	02 Set
5	Compressive Strength (Cube) P3 Pier (M-30)	17.03.2022	02 Set
6	Compressive Strength (Cube) P5 Well Cap (M-30)	17.03.2022	02 Set

कृपया परीक्षणोपरान्त आख्या इस कार्यालय को प्रेषित करने का कष्ट करें।

पत्रांक: 69 / जमुपद  
प्रतिलिपि:-

1. अधिसासी अभियन्ता, रा0मा0 खण्ड लो0नि0वि0 डोईवाला देहरादून को सूचनार्थ प्रेषित।
2. अपर सहायक अभियन्ता श्री विकास परमार एवं श्री छत्रपाल, रा0मा0 खण्ड, लो0नि0वि0, डोईवाला को इस आशय से प्रेषित कि नमूने अपने सामने एकत्र कर टेस्टिंग के लिए भिजवायें।
3. M/s Himalayan Construction, Sarthi Vihar, Dehradun को सूचनार्थ प्रेषित।

सहायक अभियन्ता,  
रा0मा0 खण्ड लो0नि0वि0, डोईवाला।

## CONTACT US

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## OM Surveying

Pan No.: CNKPS9846R

Service Tax No.: 7CNKPS9846R1ZL

Letter No 10/OM/BGS/BRG/DPR

Dated. 31/01/2026

Sub: Quotation for Soil Investigation 10m and 6m Appointment of Consultant for Appointment of consultant for Request for Proposal for Procurement of Consultancy Services for Design/ DPR Under the state plan, construction of 2 Class A loading (1.5 lane) motor bridge parallel of existing Class A (1 lane) loading bridge of 30 m span at Km 28 and Km 34 & construction of 4 Class A loading (2) lane) motor bridge in lieu of existing Class B (1 lane) loading bridge at Km 23 (7m span), Km 25 with (6m span), Km 26 (7m span), and Km 31 (6m span) of Dangoli - Sailani- Dadimkhet - Hardbad - Pandrahali - Balighat - Dofad - Dharamghar - Kotmanya - Pakhu - Saatsiling motor road (SH 60) in the Assembly Constituency-Bageshwar of Bageshwar district. (First phase)

Dear sir,

As per the Discussion held with you regarding the testing we are providing Reats as details given below.

Sr.	Item/Test Name	Unit/BH	Rate Per Ranning Mtr/Point	Total Charge (RS)
	Soil investing Test in depth m, and 10, and 6.0m	11		

396 Dwarka apartment, Sec-14, Dwarka New Delhi-110078. Mob. +91-9810827076  
Regional Office: New Canal Road, Mothrowala , Near SBI Mothrowala , Dehradun, Uttarakhand-248001

### CONTACT US

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Phone: +916239435583, +919872835583 | Email : geoshikhar642@gmail.com



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### टीएचडीसी इंडिया लिमिटेड THDC INDIA LIMITED

(भारत सरकार एवं उ.प्र.सरकार का संयुक्त उपक्रम)  
(A Joint venture of Govt. of India & Govt. of UP)  
CIN : U45203UR1988GOI009822

कोटेश्वर हाईड्रो इलेक्ट्रिक प्रोजेक्ट, कोटेश्वर  
Koteshwar Hydro Electric Project, Koteshwar



संदर्भ संख्या - टीएचडीसीआईएल/केएचईपी/क्यूसी/एफ-25/ 5568 दिनांक: 26/5/2022

सेवा में,

दून टैस्टिंग एण्ड रिसर्च लैबोरेटरीज,  
टी-स्टेट, भागीरथी पुरम, टीएचडीसी कालोनी,  
बनजारवाला, देहरादून (उत्तराखण्ड)

विषय :- कोटेश्वर हाईड्रो इलेक्ट्रिक प्रोजेक्ट में प्रयुक्त हो रहे निर्माण सामग्री के गुण परीक्षण करने के सम्बन्ध में।

महोदय,

उपरोक्त विषयक निम्नलिखित विवरण में दिए गए निर्माण सामग्रियों को संलग्न कर आवश्यक गुण परीक्षण हेतु आपकी प्रतिष्ठित परीक्षणशाला में प्रेषित किया जा रहा है। इन परीक्षण सामग्रियों के नमूना संकेत निम्नवत है:-

- |   |                                      |
|---|--------------------------------------|
| (1)THDC/KHEP/QC/memo(BRM)/A 25052022                      | (2)THDC/KHEP/QC/memo(BRM)/B 25052022 |
| (3)THDC/KHEP/QC/memo(BRM)/C 25052022                      | (4)THDC/KHEP/QC/memo(BRM)/D 25052022 |
| (5)THDC/KHEP/QC/memo(BRM)/E 25052022                      | (6)THDC/KHEP/QC/memo(BRM)/F 25052022 |
| (7) THDC/KHEP/QC/19(BRM)/12052022 OPC- 43 W-13 (JK super) |                                      |
- नमूनों की मात्रा एवं सम्बन्धित भारतीय मानक कोड निम्नानुसार है :-

क्रम सं.	नमूनों का प्रकार /विवरण	सैम्पल कोड ( नमूना संकेत)	किये जाने वाले परीक्षण का विवरण	टिप्पणी /प्रासंगिक भारतीय मानक कोड
1	(1)Maxphalt VG-30 (2)Bitumen Emulsion (3) Stone Aggregate 20mm (4) Stone Aggregate 10mm (5) Stone Aggregate 6 mm (6) Stone Dust (7)Cement OPC 43 gr W13	(1)THDC/KHEP/QC/memo(BRM) /A 25052022 (2)THDC/KHEP/QC/memo(BRM)/B 25052022 (3)THDC/KHEP/QC/memo(BRM)/C 25052022 (4)THDC/KHEP/QC/memo(BRM) /D 25052022 (5)THDC/KHEP/QC/memo(BRM)/ E 25052022 (6)THDC/KHEP/QC/memo(BRM)/ F 25052022 (7)THDC/KHEP/QC/19(BRM)/12052022 OPC- 43 W-13 (JK super)	Physical & Chemical Properties  Chemical Properties	As per IS 1202-1220 & IS 2386 (नवीनतम संस्करण (Except Gradation of Aggregates & Stone dust.) IS 269 (नवीनतम संस्करण

प्रधान कार्यालय : गंगा भावन, प्रगतपुरम, बाईपास रोड, रीशिकेश- 249201  
Corporate Office : GANGA BHAWAN, PRAGATIPURAM, BYPASS ROAD, RISHIKESH - 249201  
परीक्षण कार्यालय : भागीरथी नगर (टॉप टैरसो), भागीरथीपुरम, टाईल गार्डन-249124  
Regd. Office: Bhagirathi Bhawan, (Top Terrace), Bhagirathipuram, Tiled Garden-249 124  
दूरभाष: 0135-2439463 - Telex: 0135-2439463, Website Address: www.thdc.gov.in  
(\*दिल्ली के पंजीकृत कर्मियों, भारत का पत्र नवीं अधिनियम के अंतर्गत है।\*)

## CONTACT US

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