

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation *Venus Testing & Research Laboratory*

Nandeli Road, Near Gandhi Pan Centre, Kosamnara,
Raigarh-496001, Chhattisgarh, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

*“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing*

*This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.*



QAI/CIA/TL/2025/0111

Valid from: 15 April 2025

Valid until: 14 April 2027

A handwritten signature in black ink, appearing to read 'B. Rana'.

Dr. Bhupendra Kumar Rana
Chief Executive Officer

A handwritten signature in black ink, appearing to read 'Vikram Kumar'.

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
1.	Aggregate	Chloride	IS 4032:1985
2.		Organic Impurities	IS 2386 (P-2):1963
3.		Sulphate	IS 4032:1985
4.		Dissolved Silica	IS 2386 (P-7):1963, Clause-3.7 (Gravimetric Method)
5.		Reduction in Alkalinity	IS 2386 (P-7):1963
6.	Cement (OPC)	Alkali Content	IS 4032:1985, Clause-4.11
7.		Silica	IS 4032:1985
8.		Calcium Oxide	IS 4032:1985, Clause-4.7.2
9.		Chloride	IS 4032:1985, Amd. 2
10.		Insoluble Residue	IS 4032:1985
11.		Loss on Ignition	IS 4032:1985
12.		Sulphuric Anhydride (as SO ₃)	IS 4032:1985
13.		Alumina	IS 4032:1985, Clause-4.6.1
14.		Iron Oxide	IS 4032:1985, Clause-4.5.2
15.		Magnesia	IS 4032:1985, Clause-4.8.2
16.	Cement (PPC)	Alkali Content	IS 4032:1985, Clause-4.11
17.		Chloride	IS 4032:1985, Amd. 2
18.		Insoluble Residue	IS 4032:1985

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
19.	Cement (PPC)	Loss on Ignition	IS 4032:1985
20.		Sulphuric Anhydride (as SO ₃)	IS 4032:1985
21.		Magnesia	IS 4032:1985
22.	Admixture	Ash Content	IS 9103:1999, Annex E2, Clause 10.1
23.		Chloride Content	IS 6925:1973, Clause-5
24.		Dry Material Content	IS 9103:1999, Annex E1, Clause 10.1
25.		pH Value	IS 9103:1999, Annex E5, Clause 10.1
26.		Relative Density	IS 9103:1999, Annex E3, Clause 10.1
27.	Fly Ash	Alumina Iron Oxide	IS 1727:1967
28.		Available Alkali	IS 3812 (P-1):2013, Annex-C, Clause-1
29.		Chloride	IS 4032:1985, Amd. 2
30.		Loss on Ignition	IS 1727:1967
31.		Magnesia	IS 1727:1967
32.		Silica	IS 1727:1967
33.		Total Sulphur	IS 1727:1967
34.	Ceramic Tile	Resistance to acids & alkalis	IS 13630 (P-8):2019
35.		Resistance to household chemicals & swimming pool	IS 13630 (P-8):2019



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
36.		Resistance to staining of glazed tiles	IS 13630 (P-8):2019
37.	Concrete & Cement Mortar	Chloride	IS 14959 (P-2)
38.		Sulphate	BS-1881 (P-124):1988
39.	Water Proofing Compound	Chloride Content	IS 6925:1973
40.	Concrete	Chloride Content	IS 14959 (P-2):2001
41.		Sulphate	BS-1881 (P-124):1988



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
1.	Carbon steel	Carbon	ASTM E 415:2021
2.		Carbon Equivalent	IS 1786:2008
3.		Chromium	ASTM E 415:2021
4.		Copper	ASTM E 415:2021
5.		Manganese	ASTM E 415:2021
6.		Molybdenum	ASTM E 415:2021
7.		Nickel	ASTM E 415:2021
8.		Phosphorus	ASTM E 415:2021
9.		Silicon	ASTM E 415:2021
10.		Sulphur	ASTM E 415:2021
11.		Vanadium	ASTM E 415:2021
12.		Aluminium	ASTM E 415:2021
13.		Boron	ASTM E 415:2021
14.		Titanium	ASTM E 415:2021
15.	Stainless Steel	Carbon	ASTM E1086:2022
16.		Chromium	ASTM E1086:2022
17.		Manganese	ASTM E1086:2022
18.		Nickel	ASTM E1086:2022
19.		Phosphorus	ASTM E1086:2022
20.		Silicon	ASTM E1086:2022
21.		Sulphur	ASTM E1086:2022



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
22.	Stainless Steel	Molybdenum	ASTM E1086:2022
23.		Copper	ASTM E1086:2022
24.	Low Alloy Steel	Carbon	ASTM E 415:2021
25.		Carbon Equivalent	IS 1786:2008
26.		Chromium	ASTM E 415:2021
27.		Copper	ASTM E 415:2021
28.		Manganese	ASTM E 415:2021
29.		Molybdenum	ASTM E 415:2021
30.		Nickel	ASTM E 415:2021
31.		Phosphorus	ASTM E 415:2021
32.		Silicon	ASTM E 415:2021
33.		Sulphur	ASTM E 415:2021
34.		Vanadium	ASTM E 415:2021
35.		Aluminium	ASTM E 415:2021
36.		Boron	ASTM E 415:2021
37.		Titanium	ASTM E 415:2021



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Construction Water	Acidity	IS 3025 (P-22):2024, Clause-9.2
2.		Alkalinity	IS 3025 (P-23):2023, Clause-10.1
3.		Chloride	IS 3025 (P-32):1988, Clause-2
4.		Inorganic Solids	IS 3025 (P-18):2022
5.		Organic Solids	IS 3025 (P-18):2022
6.		pH	IS 3025 (P-11):2022
7.		Sulphate	IS 3025 (P-24) Sec-1:2022, Clause-4
8.		Total Suspended Solids	IS 3025 (P-15):1984
9.	Drinking Water	Acidity	IS 3025 (P-22):2024, Clause-9.2
10.		Alkalinity	IS 3025 (P-23):2023, Clause-10.1
11.		Ammonia Nitrogen	IS 3025 (P-34):1988, Clouse-2.3
12.		Calcium	IS 3025 (P-40):2024, Clause-5
13.		Chloride	IS 3025 (P-32):1988, Clause-2
14.		Colour	IS 3025 (P-4):2021, Clause-4
15.		Conductivity	IS 3025 (P-14):2013
16.		Hardness	IS 3025 (P-21):2009, Clause-5

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
17.	Drinking Water	Magnesium	IS 3025 (P-46):2023, Clause-5
18.		Nitrate	IS 3025(P-34, sec-1):2023Clause-5.3
19.		Odour	IS 3025 (P-5):2018
20.		pH	IS 3025 (P-11):2022
21.		Residual Chlorine	IS 3025 (P-26):2021, Annex-A, Clause-6
22.		Sulphate	IS 3025 (P-24) Sec-1;;2022, Clause-4
23.		Sulphide	IS 3025 (P-29):2022
24.		Suspended Solids	IS 3025 (P-17):2022
25.		Taste	IS 3025 (P-8):2023
26.		Total Dissolve Solids	IS 3025 (P-15):2023
27.		Turbidity	IS 3025 (P-10):2023, Clause-10



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Ash	IS 1350 (P-1) : 1984
2.		Gross Calorific Value	IS 1350 (P-2):2022
3.		Fixed Carbon	IS 1350 (P-1) : 1984
4.		Moisture Content	IS 1350 (P-1) : 1984
5.		Volatile Matter	IS 1350 (P-1) : 1984
6.		Sulphur	IS 1350 (P-3):2022
7.		Carbon	IS 1350 (P-4:Sec-1) : 2024, Clause-6.2
8.		Hydrogen	IS 1350 (P-4:Sec-1) : 2024, Clause-6.2
9.		Nitrogen	IS 1350 (P-4:Sec-2) : 1975, Clause-5.1
10.		Oxygen	ASTM D 3176 : 2015, clause 6.5



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
1.	Limestone	Loss on ignition	IS 1760 (P-1) : 1991
2.		Silica (as SiO ₂)	IS 1760 (P-2) : 1991
3.		Alumina (as Al ₂ O ₃)	IS 1760 (P-3) : 1992, Clause-7
4.		Iron Oxide	IS 1760 (P-3) : 1992, Clause-6
5.		Magnesium Oxide	IS 1760 (P-3) : 1992, Clause-9
6.		Calcium Oxide	IS 1760 (P-3) : 1992, Clause-8
7.		Chloride	IS 1760 (P-5) : 1991, Clause-5
8.	Dolomite	Loss on ignition	IS 1760 (P-1) : 1991
9.		Silica (as SiO ₂)	IS 1760 (P-2) : 1991
10.		Alumina (as Al ₂ O ₃)	IS 1760 (P-3) : 1992, Clause-7
11.		Iron Oxide	IS 1760 (P-3) : 1992, Clause-6
12.		Magnesium Oxide	IS 1760 (P-3) : 1992, Clause-9
13.		Calcium Oxide	IS 1760 (P-3) : 1992, Clause-8
14.		Chloride	IS 1760 (P-5) : 1991
15.	Iron Ore	Loss on ignition	ISO 11536:2015
16.		Silica (as SiO ₂)	IS 1493 (P-1) : 1981
17.		Iron (as Fe)	IS 1493 (P-1) : 1981, Clause-8.5
18.		Alumina (as Al ₂ O ₃)	IS 1493 (P-1) : 1981, Clause-10



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
19.		Phosphorus	IS 1493 (P-1) : 1981, Clause-9
20.		Sulphur	IS 1493 (P-1) : 1981



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
1.	AAC Block	Dimension (length)	IS 2185(P-3) : 1984 (Clause 3)
2.		Dimension (Height)	IS 2185(P-3) : 1984 (Clause 3)
3.		Dimension (Width)	IS 2185(P-3) : 1984 (Clause 3)
4.		Bulk Density	IS 6441(P-1) : 1972 (Clause 4.1)
5.		Compressive strength	IS 6441(P-5) : 1972 (Clause 4)
6.	Admixture	Compressive strength	IS 516 (P-1/Sec-1):2021 (Clause 3)
7.		Initial setting time	IS 1199 (P-7): 2018 (Clause 8)
8.		Final Setting time	IS 1199 (P-7): 2018 (Clause 8)
9.		Bleeding %	IS 9103:1999 (Annexure D)
10.	Burnt Clay Bricks	Dimension (length)	IS 1077:1992 (Clause 6.1)
11.		Dimension (Height)	IS 1077:1992 (Clause 6.1)
12.		Dimension (Width)	IS 1077:1992 (Clause 6.1)
13.		Water Absorption	IS 3495 (P-2):2019 (Clause 4.1)
14.		Compressive strength	IS 3495 (P-1):2019 (Clause 4.1, 4.2)
15.		Efflorescence	IS 3495 (P-3): 2019 (Clause 4)
16.	Ballast	Sieve Analysis	IS 2386 (P-1) : 1963 (Clause 2)
17.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.2)
18.		Impact Value	IS 2386 (P-4) : 1963 (Clause 4)
19.		Crushing value	IS 2386 (P-4) : 1963 (Clause 2)
20.		Abrasion value	IS 2386 (P-4) : 1963 (Clause 5)
21.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
22.	Cement (OPC)	Finesness (Dry Sieving)	IS 4031(P-1):1996 (Clause 4)
23.		Finesness (Blaine Air Permeability)	IS 4031(P-2):1999 (Clause 5)
24.		Density	IS 4031(P-11):1988 (Clause 6)
25.		Compressive strength	IS 4031(P-6):1988 (Clause 7)
26.		Consistency	IS 4031(P-4):1988 (Clause 5)
27.		Setting time (Initial)	IS 4031(P-5):1988 (Clause 5.2)
28.		Setting time (Final)	IS 4031(P-5):1988 (Clause 5.3)
29.		Soundness (Le-chatelier)	IS 4031(P-3):1988 (Clause 5)
30.		Soundness (Autoclave)	IS 4031(P-3):1988 ((Clause 6)
31.	Cement (PPC)	Finesness (Dry Sieving)	IS 4031(P-1):1996 (Clause 4)
32.		Finesness (Blaine Air Permeability)	IS 4031(P-2):1999 (Clause 5)
33.		Density	IS 4031(P-11):1988 (Clause 6)
34.		Compressive strength	IS 4031(P-6):1988 (Clause 7)
35.		Consistency	IS 4031(P-4):1988 (Clause 5)
36.		Setting time (Initial)	IS 4031(P-5):1988 (Clause 5.2)
37.		Setting time (Final)	IS 4031(P-5):1988 (Clause 5.3)
38.		Soundness (Le-chatelier)	IS 4031(P-3):1988 (Clause 5)
39.		Soundness (Autoclave)	IS 4031(P-3):1988 ((Clause 6)
40.		Dry Shrinkage	IS 4031(P-10):1988 (Clause 8)
41.	Wet Mix-macadam	Impact Value	IS 2386 (P-4) : 1963 (Clause 4)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
42.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)
43.		Flakiness Index	IS 2386 (P-1) : 1963 (Clause 4)
44.		Elongation Index	IS 2386 (P-1) : 1963 (clause 5)
45.		Sieve Analysis	IS 2386 (P-1) : 1963 (Clause 2)
46.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.2)
47.		Wet Impact Value	IS 5640:1970 (Clause 4)
48.	Coarse Aggregate	Sieve Analysis	IS 2386 (P-1) : 1963 (Clause 2)
49.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.2,2.3)
50.		Specific Gravity	IS 2386 (P-3) : 1963 (Clause 2.2,2.3)
51.		Impact Value	IS 2386 (P-4) : 1963 (Clause 4)
52.		Crushing value	IS 2386 (P-4) : 1963 (Clause 2)
53.		Abrasion value	IS 2386 (P-4) : 1963 (Clause 5)
54.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)
55.		Flakiness Index	IS 2386 (P-1) : 1963 (Clause 4)
56.		Elongation Index	IS 2386 (P-1) : 1963 (clause 5)
57.		10% Fine Value	IS 2386 (P-4) : 1963 (Clause 3)
58.		Soundness (Na ₂ SO ₄)	IS 2386 (P-5) : 1963 (Clause 7)
59.		Soundness (MgSO ₄)	IS 2386 (P-5) : 1963 (Clause 7)
60.		Combined Flakiness & Elongation Index	IS 2386 (P-1) : 1963 (Clause 4,5)
61.		Deleterious Material (Clay Lumps)	IS 2386 (P-2) : 1963 (Clause 2)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
62.		Deleterious Material (Coal Lignite)	IS 2386 (P-2) : 1963 (Clause 4)
63.		Deleterious Material (75 micron IS Sieve)	IS 2386 (P-1) : 1963 (Clause 3)
64.		Sieve Analysis	IS 2386 (P-1) : 1963 (Clause 2)
65.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.4)
66.		Specific Gravity	IS 2386 (P-3) : 1963 (Clause 2.4)
67.		Fineness Modulus	IS 2386 (P-4) : 1963
68.		Silt Content	CPWD (Clause 3.1.3.2)
69.		Bulking of sand	IS 2386 (P-3) : 1963 (Clause 4)
70.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)
71.	Fine Aggregate	Organic Impurity	IS 2386 (P-2) : 1963 (Clause 6)
72.		Soundness (Na ₂ SO ₄)	IS 2386 (P-5) : 1963 (Clause 7)
73.		Soundness (MgSO ₄)	IS 2386 (P-5) : 1963 (Clause 7)
74.		Deleterious Material (Clay Lumps)	IS 2386 (P-2) : 1963 (Clause 2)
75.		Deleterious Material (Coal Lignite)	IS 2386 (P-2) : 1963 (Clause 4)
76.		Deleterious Material (75 micron IS Sieve)	IS 2386 (P-1) : 1963 (Clause 3)
77.	Paver Block	Dimension (length)	IS 15658: 2021 (Clause 7.2)
78.		Dimension (Height)	IS 15658: 2021 (Clause 7.2)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
79.		Dimension (thickness)	IS 15658: 2021 (Clause 7.2)
80.		Wearing layer Thickness	IS 15658:2021 (Clause 3.22)
81.		Aspect Ratio	IS 15658:2021 (Clause 3.3)
82.		Visual Inspection	IS 15658:2021 (Clause 7.1.2)
83.		Abrasion Resistance	IS 15658: 2021 (Annexure E)
84.	Paver Block	Water Absorption	IS 15658: 2021 (Annexure C)
85.		Compressive strength	IS 15658: 2021 (Annexure D)
86.		Flexural Strength	IS 15658: 2021 (Annexure G)
87.		Tensile split strength	IS 15658: 2021 (Annexure F)
88.	Kerb Stone	Dimension (length)	IS 5758:2020 (Clause 4)
89.		Dimension (Height)	IS 5758:2020 (Clause 4)
90.		Dimension (thickness)	IS 5758:2020 (Clause 4)
91.		Water Absorption	IS 5758:2020 (Annexure D)
92.		Compressive strength	IS 516(P-4): 2018 (Clause 7)
93.	Concrete Tile	Resistance to wear	IS 1237:2012 (Annexure G)
94.		Water Absorption	IS 1237:2012 (Annexure E)
95.		Wet Transverse Strength	IS 1237:2012 (Annexure F)
96.		Resistance to wear	IS 13801:2013 (Annexure G)
97.		Water Absorption	IS 13801:2013 (Annexure E)
98.		Wet Transverse Strength	IS 13801:2013 (Annexure F)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
99.	Fly Ash	Particle retained on 45-micron sieve	IS 1727 : 1967 (Clause 6.2)
100.		Fineness (Blain air Permeability)	IS 1727 : 1967 (Clause 6)
101.		Specific Gravity	IS 1727 : 1967 (Clause 15)
102.		Soundness (by Autoclave)	IS 1727 : 1967 (Clause 7)
103.		Compressive strength	IS 1727 : 1967 (Clause 10)
104.	Granular Sub-base	Impact Value	IS 2386 (P-4) : 1963 (Clause 4)
105.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)
106.		Flakiness Index	IS 2386 (P-1) : 1963 (Clause 4)
107.		Elongation Index	IS 2386 (P-1) : 1963 (clause 5)
108.		Sieve Analysis	IS 2386 (P-1) : 1963 (Clause 2)
109.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.4)
110.		Wet Impact Value	IS 5640:1970 (Clause 4)
111.	Cement Concrete Cube	Compressive strength	IS 516 (P-1/Sec-1):2021 (Clause 3)
112.	Concrete Core	Compressive strength	IS 516 (P-1/Sec-1):2021 (Clause 3)
113.	Concrete	Slump	IS 1199:2018 (Clause 5.1)
114.	Bituminous Core	Bitumen Content	IRC SP-11: 2018
115.	Fly Ash Bricks	Dimension (length)	IS 1077:1992 (Clause 6.1)
116.		Dimension (Height)	IS 1077:1992 (Clause 6.1)
117.		Dimension (Width)	IS 1077:1992 (Clause 6.1)
118.		Water Absorption	IS 3495 (P-2):2019 (Clause 4.1)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
119.		Compressive strength	IS 3495 (P-1):2019 (Clause 4.1, 4.2)
120.		Efflorescence	IS 3495 (P-3): 2019 (Clause 4)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
1.	Reinforcement and Structural steel	Mass per meter	IS 1786:2008 (Clause 7.2)
2.	Reinforcement and Structural steel	Tensile strength	IS 1608 (P-1):2022
3.	Reinforcement and Structural steel	Yield Stress	IS 1608 (P-1):2022 (Clause A.3.2)
4.	Reinforcement and Structural steel	Elongation	IS 1608 (P-1):2022 (Clause 20)
5.	Reinforcement and Structural steel	0.2%, Proof Stress	IS 1608 (P-1):2022 (Clause A.3.3)
6.	Reinforcement and Structural steel	Reduction Area	IS 1608 (P-1):2022 (Clause 21)
7.	Reinforcement and Structural steel	Total Elongation at maximum force	IS 1608 (P-1):2022 (Clause 18)
8.	Reinforcement and Structural steel	Bend	IS 1599:2023
9.	Reinforcement and Structural steel	Re-bend (mandrel dia 24mm - 200mm)	IS 1786:2008 (Clause 9.4)
10.	Reinforcement and Structural steel	Hardness (HRBW)	IS 1586 (P-1):2018 (Clause 7)
11.	Reinforcement and Structural steel	Hardness (HRC)	IS 1586 (P-1):2018 (Clause 7)
12.	Structural Steel	Charpy Impact Test (V-notch) @ ambient Temp	IS 1757 (P-1):2020 (Clause 6)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
1.	Soil	Grain size analysis	IS 2720(P-4):1985 (Clause 4)
2.		Free swell index	IS 2720(P-40):1977 (Clause 3)
3.		Heavy compaction (MDD)	IS 2720(P-8):1983 (Clause 5)
4.		Heavy compaction (OMC)	IS 2720(P-8):1983 (Clause 5)
5.		Light compaction (MDD)	IS 2720(P-7):1980 (Clause 5)
6.		Light compaction (OMC)	IS 2720(P-7):1980 (Clause 5)
7.		California Bearing Ratio (CBR)	IS 2720(P-16):1987 (Clause 5)
8.		Liquid Limit	IS 2720(P-5):1985 (Clause 5)
9.		Plastic limit	IS 2720(P-5):1985 (Clause 7)
10.		Plasticity Index	IS 2720(P-5):1985 (Clause 8)
11.		Specific gravity	IS 2720(P-3/SEC-2):1980
12.		Moisture content	IS 2720(P-2):1973 (Clause 5)
13.		Dry shrinkage	IS 2720(P-6):1972 (Clause 5)
14.		Direct Shear test (C value)	IS 2720(P-13):1986 (Clause 5)
15.		Direct Shear test (Phi value)	IS 2720(P-13):1986 (Clause 5)
16.		Clay & silt	IS 2720(P-4):1985 (Clause 5.2)
17.		Plate load test	IS 1888:1982 (Clause 5)
18.		Cyclic Plate Load Test	IS 5249:1992 (Clause 6)



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
19.		Modulus of Strain (EV2 test)	DIN 18134:2012
20.		Electrical Resistivity Test (ERT) test	IS 15736:2007 (Clause 8)
21.		California Bearing Ratio (CBR)	IS 2720(P-16):1987 (Clause 5)
22.	Granular Sub-base	Liquid Limit	IS 2720(P-5):1985 (Clause 4)
23.		Plastic limit	IS 2720(P-5):1985 (Clause 7)
24.		Plasticity Index	IS 2720(P-5):1985 (Clause 8)
25.		Heavy compaction (MDD)	IS 2720(P-8):1983 (Clause 5)
26.		Heavy compaction (OMC)	IS 2720(P-8):1983 (Clause 5)
27.		Water Absorption	IS 2386 (P-3) : 1963 (Clause 2.2)
28.		California Bearing Ratio (CBR)	IS 2720(P-16):1987 (Clause 5)
29.	Wet Mix-macadam	Liquid Limit	IS 2720(P-5):1985 (Clause 4)
30.		Plastic limit	IS 2720(P-5):1985 (Clause 7)
31.		Plasticity Index	IS 2720(P-5):1985 (Clause 8)
32.		Heavy compaction (MDD)	IS 2720(P-8):1983 (Clause 5)
33.		Heavy compaction (OMC)	IS 2720(P-8):1983 (Clause 5)
34.		Water Absorption	IS 2386 (P-3): 1963 (Clause 2.2)
35.	Rock	Unconfined compressive strength	IS 9143:1979 (Clause 4)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
36.	Rock	Water content	IS 13030:1991 (Clause 4)
37.		Point load strength	IS 8764:1998 (Clause 6)
38.	Natural Stone	Compressive strength	IS 1121 (P-1):2013 (Clause 6)
39.		Moisture content	IS 13030:1991 (Clause 4)
40.		Hardness (Mohr's)	IS 13630 (P-13):2019 (Clause 5)
41.		Porosity	IS 1124 : 1974 (Clause 6.3)
42.		Specific gravity	IS 1124:1974 (Clause 5)
43.		Water Absorption	IS 1124 : 1974(Claude 6.2)
44.		Transverse Strength	IS 1121 (P-2):2013 (Clause 6)
45.		Dry Density	IS 13030:1991 (Clause 5.3)
46.		Thickness	VTRL/SOP/Stone/Thickness/01



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Non-Destructive Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Materials – Reinforced Concrete Structures		
1.	Reinforced Concrete structures	Rebound Hammer	IS 516 (P-5/Sec4):2020 (Clause 6)
2.	Reinforced Concrete structures	Ultrasonic Pulse Velocity	IS 516 (P-5/Sec1):2018 (Clause 2)
3.	Reinforced Concrete structures	Pile Integrity Test	ASTM D 5882:2016 (Clause 6)
4.	Reinforced Concrete structures	Carbonation Depth	IS 516(P-5/Sec3):2021 (Clause 3)

