

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Venus Testing & Research Laboratory LLP

(Name change from Venus Testing & Research Laboratory to Venus Testing and Research Laboratory LLP w.e.f. 09 June 2025)

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

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: www.qai.org.in



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Valid from: 15 April 2025
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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

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
17.		Chloride	IS 4032:1985, Amd. 2
18.		Insoluble Residue	IS 4032:1985
19.		Loss on Ignition	IS 4032:1985
20.	Cement (PPC)	Sulphuric Anhydride (as SO ₃)	IS 4032:1985
21.		Magnesia	IS 4032:1985
22.		Ash Content	IS 9103:1999, Annex E2, Clause 10.1
23.	Admixture	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.		Alumina Iron Oxide	IS 1727:1967
28.	Fly Ash	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

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www.qai.org.in



2 of 22

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
34.	Ceramic Tile	Resistance to acids & alkalis	IS 13630 (P-8):2019
35.		Resistance to household chemicals & swimming pool	IS 13630 (P-8):2019
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

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www.qai.org.in



4 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
21.		Sulphur	ASTM E1086:2022
22.	Stainless Steel	Molybdenum	ASTM E1086:2022
23.		Copper	ASTM E1086:2022
24.		Carbon	ASTM E 415:2021
25.	Low Alloy Steel	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
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

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www.qai.org.in



6 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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	Water		
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
17.		Magnesium	IS 3025 (P-46):2023, Clause-5
18.		Nitrate	IS 3025(P-34, sec-1):2023 Clause-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.	Drinking Water	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

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www.qai.org.in



9 of 22

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
18.		Alumina (as Al ₂ O ₃)	IS 1493 (P-1) : 1981, Clause-10
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 (Clasue 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)

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www.qai.org.in



11 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
21.		Bulk Density	IS 2386 (P-3) : 1963 (Clause 3)
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-chatlelier)	IS 4031(P-3):1988 (Clause 5)
30.		Soundness (Autoclave)	IS 4031(P-3):1988 ((Clause 6)
31.		Cement (PPC)	Finesness (Dry Sieving)
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-chatlelier)		IS 4031(P-3):1988 (Clause 5)

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www.qai.org.in



12 of 22

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
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)
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
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)

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www.qai.org.in



13 of 22

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
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)
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.	Fine Aggregate	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.		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)

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www.qai.org.in



14 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
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)
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)

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15 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
91.	Concrete Tile	Water Absorption	IS 5758:2020 (Annexure D)
92.		Compressive strength	IS 516(P-4): 2018 (Clause 7)
93.		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)
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)

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16 of 22

Quality And Accreditation Institute Centre for International Accreditation

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
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.		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.	Fly Ash Bricks	Water Absorption	IS 3495 (P-2):2019 (Clause 4.1)
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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www.qai.org.in



18 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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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)

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19 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
18.		Cyclic Plate Load Test	IS 5249:1992 (Clause 6)
19.		Modulus of Strain (EV2 test)	DIN 18134:2012
20.		Electrical Resistivity Test (ERT) test	IS 15736:2007 (Clause 8)
21.	Granular Sub-base	California Bearing Ratio (CBR)	IS 2720(P-16):1987 (Clause 5)
22.		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.		Wet Mix-macadam	California Bearing Ratio (CBR)
29.	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)

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20 of 22

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
34.		Water Absorption	IS 2386 (P-3): 1963 (Clause 2.2)
35.	Rock	Unconfined compressive strength	IS 9143:1979 (Clause 4)
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(Claue 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)

