

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



CERTIFICATE OF ACCREDITATION (AS PER ISO/IEC 17025:2017)

This is to attest that

TESTING LABORATORY “EMMTECH CALIBRATION”

Plot No. 326, Sector-68, IMT Faridabad (Haryana)-121004, India

Testing Laboratory

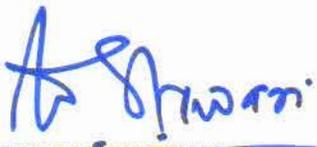
has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for testing laboratories.

Certificate Number: TL-102

Issue Date: 28.10.2025

Valid Until: 27.10.2027

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www.fdasindia.org).


DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 102)

Laboratory Name: TESTING LABORATORY "EMMTECH CALIBRATION"
Plot No. 326, Sector-68, IMT Faridabad (Haryana)-121004, India

Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Chemical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group: Building Materials				
1	Cement (OPC/PPC/PSC/ Composite)	Aluminum Oxide (as Al ₂ O ₃)	IS 4032:1985 RA:2019	----
		Calcium Oxide (as CaO)		
		Insoluble Residue		
		Iron Oxide (as Fe ₂ O ₃)		
		Loss on ignition		
		Magnesium Oxide (as MgO)		
		Potassium Oxide		
		Silica (as SiO ₂)		
		Sodium Oxide		
		Sulphuric Anhydride		
		Total Chloride (as Cl)	IS 4032:1985, AMD:-2010	
2	Fresh/Hardened Concrete	water& Acid soluble Chloride (as Cl)-Fresh concrete	IS 14959 (Part-1):2001 RA: 2021	----
		water& Acid-soluble Chloride (as Cl)-Hardened Concrete	IS 14959 (Part-2):2001 RA: 2022	----
		Sulphate (as SO ₄)	IS 4032:2019, RA:1985	----
3	Admixture	Ash Content	IS 9103:1999 RA:2018	----
		Dry Material Content		
		pH		
		Relative Density		
		Chloride ion Content	IS 6925:1973 RA:2018	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
4	Micro Silica / Silica Fume	Alkalies as Na ₂ O,	IS 15388:2003, AMD-1:2017	----
		Loss on Ignition	IS 1727:1967 RA:2018	----
		Moisture Content	IS 15388:2003	----
		Silicon dioxide (SiO ₂)	IS 1727:1967 RA:2018	----
5	Ceramic Tile	Resistance to Household Chemicals	IS 13630 (P-8) 2019	----
		Resistance to staining		----
		Resistance to acids and alkalis		----
6	Fly Ash	Available alkalis as equivalent sodium oxide (Na ₂ O)	IS 3812 (P-1) 2013 RA:2022	----
		Total Chlorides (as Cl)	IS 4032:1985, AMD-2:2010	----
		Combined Alumina & Ferric Oxide (as R ₂ O ₃)	IS 1727:1967 RA:2018	----
		Loss on Ignition		----
		Magnesium Oxide (MgO)		----
		Moisture Content		----
		Silicon dioxide (SiO ₂)		----
		Sulphur Trioxide (SO ₃)		----
		Reactive silica	IS 3812 (P-1)2013 RA:2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
7	Plaster of Paris	Calcium Oxide (as CaO)	IS 1288:1982 RA:2021	----
		Soluble Magnesium Salt (as MgO)		----
		Sulphur Trioxide (as SO ₃)		----
		Loss on Ignition	IS 2547(Part-1):1976 RA 2017	----
		Soluble Magnesium Salt (as MgO)		----
		Soluble Sodium Salt (as Na ₂ O)		----
8	Plain Gypsum Plaster Board	CaSO ₄ , 2H ₂ O (cl.5.1-Table-2(i))	IS 1288:1982, Amd-1:2013	----
		Free Water (Natural/By Product Gypsum) (cl.5.1-Table-2(ii))	IS 1288:1982, Amd- 1:2013	----
		pH (Natural/By Product Gypsum) (cl.5.1-Table-2(iii))	IS 2720(P-26):1987	----
		SiO ₂ (cl.5.1-Table-2(iv))	IS 1288:1982, Amd-1:2013	----
		Chloride Content (cl.5.1-Table-2(iv))	IS 8272:1984, Amd- 1:2010	----
9	Coated/Laminated Gypsum Plaster Board	CaSO ₄ , 2H ₂ O (cl.4.1-Table-1(i))	IS 1288:1982, Amd-1:2013	----
		Free Water (Natural/By Product Gypsum) (cl.4.1-Table-1(ii))	IS 1288:1982, Amd- 1:2013	----

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		pH (Natural/By Product Gypsum) (cl.4.1-Table-1(iii))	IS 2720(P-26):1987	----	
		SiO ₂ (cl.4.1-Table-1(iv))	IS 1288:1982, Amd-1:2013	----	
		Chloride Content (cl.4.1-Table-1(v))	IS 8272:1984, Amd-1:2010	----	
		10 Reinforced Gypsum Plaster Board and Ceiling Tiles	CaSO ₄ , 2H ₂ O (cl.4.1-Table-1(i))	IS 1288:1982, Amd- 1:2013	----
		Free Water (Natural/By Product Gypsum) (cl.4.1-Table-1(ii))	IS 1288:1982, Amd- 1:2013	----	
		pH (Natural/By Product Gypsum) (cl.4.1-Table-1(iii))	IS 2720(P-26):1987	----	
		SiO ₂ (cl.4.1-Table-1(iv))	IS 1288:1982, Amd-1:2013	----	
		Chloride Content (cl.4.1-Table-1(v))	IS 8272:1984, Amd-1:2010	----	
		11 Fine/Coarse Aggregate	Alkali Aggregate reactivity (Soluble silica)	IS 2386 (Part 7):1963	----
Alkali Aggregate reactivity (Reduction in alkalinity)	----				
		sulphate	IS 4032:1985	----	
		Chloride	IS 14959 Part -2:2001	----	

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Chemical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
12	Soil	Available phosphorus	Laboratory SOP- No. EMTC/TPM-09C.10 Based on the Ministry of Agriculture Manual 2011-4.6.3/14	----
		Available Potassium (as K)	Laboratory SOP- No. EMTC/TPM-09C.10 Based on the Ministry of Agriculture Manual 2011-4.6.3/14	----
		Chloride (as Cl)	Laboratory SOP- No. EMTC/TPM-09C.10 Based on the Ministry of Agriculture Manual 2011-4.6.3/14	----
		Exchangeable Calcium (as Ca)	Laboratory SOP- No. EMTC/TPM-09C.10 Based on the Ministry of Agriculture Manual 2011-4.6.3/14	----
		Magnesium (as Mg)	Laboratory SOP- No. EMTC/TPM-09C.10 Based on Ministry of Agriculture Manual 2011-4.6.3/14	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Total Nitrogen	Laboratory SOP- No. EMTC/TPM-09C.10 Based on Ministry of Agriculture Manual 2011-4.6.3/14	----
		Total Soluble Solid	IS 2720(P-21):1977	----
		Conductivity	IS 14767:2000	----
		Sulphate (as SO4)	IS 2720(P-27):1977	----
		Organic Carbon/Organic Matter	IS 2720(P-22):1972	----
		PH	IS 2720(P-26):1987	----
Group: Metals & Alloys				
1	Stainless Steel	Carbon (as C)	ASTM: E-1086: 2022	Spectrometer (OES)
		chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		
		Molybdenum (as Mo)		
		Nickel (as Ni)		
		Phosphorous (as P)		
		Silicon (as Si)		
		Sulphur (as S)		
		Carbon (as C)		
		chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Molybdenum (as Mo)	JIS G 1253:2002	Spectrometer (OES)
		Nickel (as Ni)		
		Phosphorous (as P)		
		Silicon (as Si)		
		Sulphur (as S)		
		Carbon (as C)		
		chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		
		Molybdenum (as Mo)		
		Nickel (as Ni)		
		Phosphorous (as P)		
		Silicon (as Si)		
Sulphur (as S)				
2	Steel Products	Mass of Zinc Coating (Mass/Unit area)	IS 6745:1972 RA: 2021
		Uniformity of Zinc coating	IS 2633:1986 RA: 2021	
3	Ferrous Materials, alloys & products (Coated and Plated products)	Salt Spray test	ISO 9227: 2022	Salt Spray Chamber
		Salt Spray Test	ASTM B 117: 2019	
		Natural salt spray test	IS 9844: 1981 RA 2021	
		Salt Spray Test	JIS Z 2371: 2000	
4	Aluminum Products	Thickness of Anodizing Coating	IS 5523:1983 RA: 2021
5	Aluminum & its alloys	Chromium (as Cr)	ASTM: E-1251: 2024	Spectrometer (OES)
		Copper (as Cu)		
		Iron (as Fe)		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used		
		Lead (as Pb)				
		Magnesium (as Mg)				
		Manganese (as Mn)				
		Silicon (as Si)				
		Strontium (as Sr)				
		Titanium (as Ti)				
		Vanadium (as V)				
		Zinc (as Zn)				
		Nickel (as Ni)				
		Phosphorus (as P)				
		Chromium (as Cr)			IS 11035:1984	Spectrometer (OES)
		Copper (as Cu)				
		Iron (as Fe)				
		Magnesium (as Mg)				
		Manganese (as Mn)				
Silicon (as Si)						
Titanium (as Ti)						
Zinc (as Zn)						
6	Low, Medium & High Carbon steel	Copper (as Cu)	ASTM E-415: 2021	Spectrometer (OES)		
Molybdenum (as Mo)						
Silicon (as Si)						
Carbon (as C)						
Chromium (as Cr)						
Manganese (as Mn)						
Nickel (as Ni)						
Niobium (as Nb)						

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Sulphur (as S)		
		Vanadium (as V)		
		Boron (as B)		
		Aluminium (as Al)		
		Titanium (as Ti)		
		Phosphorous (as P)		
		Copper (as Cu)	JISG 1253: 2002	Spectrometer (OES)
		Molybdenum (as Mo)		
		Silicon (as Si)		
		Carbon (as C)		
		Chromium (as Cr)		
		Manganese (as Mn)		
		Nickel (as Ni)		
		Niobium (as Nb)		
		Sulphur (as S)		
		Vanadium (as V)		
		Boron (as B)		
		Aluminium (as Al)		
		Titanium (as Ti)		
		Phosphorous (as P)		
		Aluminium (as Al)	IS 8811:1998 RA: 2018	Spectrometer (OES)
		Boron (as B)		
		Carbon (as C)		
		Chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Molybdenum (as Mo)		
		Nickel (as Ni)		
		Niobium (as Nb)		
		Phosphorous (as P)		
		Silicon (as Si)		
		Sulphur (as S)		
		Titanium (as Ti)		
		Vanadium (as V)		
7	Brass	Aluminum (as Al)	BS: EN 15079: 2015	Spectrometer (OES)
		Copper (as Cu)		
		Iron (as Fe)		
		Lead (as Pb)		
		Manganese (as Mn)		
		Nickel (as Ni)		
		Phosphorus (as P)		
		Tin (as Sn)		
		Silicon (as Si)		
		Sulphur (as S)		
8	Copper & its alloys	Iron (as Fe)	BS: EN 15079: 2015	Spectrometer (OES)
		Lead (as Pb)		
		Aluminum (as Al)		
		Manganese (as Mn)		
		Nickel (as Ni)		
		Phosphorous (as P)		
		Tin (as Sn)		
Zinc (as Zn)				

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used		
9	Cast Iron	Silicon (as Si)	IS-15338:2003 RA:2023	Spectrometer (OES)		
		Sulphur (as S)				
		Carbon (as C)			JISG 1253: 2002	Spectrometer (OES)
		Chromium (as Cr)				
		Copper (as Cu)				
		Manganese (as Mn)				
		Molybdenum (as Mo)				
		Nickel (as Ni)				
		Phosphorous (as P)				
		Silicon (as Si)				
		Sulphur (as S)				
		Titanium (as Ti)				
		Vanadium (as V)				
		Aluminium (as Al)				
		Carbon (as C)	JISG 1253: 2002	Spectrometer (OES)		
		Chromium (as Cr)				
		Copper (as Cu)				
		Manganese (as Mn)				
		Molybdenum (as Mo)				
		Nickel (as Ni)				
		Phosphorous (as P)				
		Silicon (as Si)				
		Sulphur (as S)				
		Titanium (as Ti)				
Vanadium (as V)						
Aluminium (as Al)						

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		Carbon (as C)	ASTM E 1999: 2023	Spectrometer (OES)
		Chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		
		Molybdenum (as Mo)		
		Nickel (as Ni)		
		Phosphorous (as P)		
		Silicon (as Si)		
		Sulphur (as S)		
		Titanium (as Ti)		
		Vanadium (as V)		
10	Austenitic and ferritic stainless steel	Carbon (as C)	IS: 9879:1998 RA: 2021	Spectrometer (OES)
		Chromium (as Cr)		
		Copper (as Cu)		
		Manganese (as Mn)		
		Molybdenum (as Mo)		
		Nickel (as Ni)		
		Phosphorus (as P)		
		Silicon (as Si)		
		Sulphur (as S)		
11	Nickel & its Alloys	Carbon (as C)	ASTM E3047: 2022	Spectrometer (OES)
		Chromium (as Cr)		
		Cobalt (as CO)		
		Copper (as Cu)		
		Iron (as Fe)		
		Manganese (as Mn)		

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		Molybdenum (as Mo)		
		Niobium (as Nb)		
		Silicon (as Si)		
		Tungsten (as W)		
12	Tool Steel	Carbon (C)	JISG 1253: 2002	Spectrometer (OES)
		Chromium (Cr)		
		Cobalt (Co)		
		Manganese (Mn)		
		Molybdenum (Mo)		
		Phosphorus (P)		
		Silicon (Si)		
		Sulphur		
		Nickel (as Ni)		
		Tungsten (as W)		
		Vanadium (as V)		
Group: Water				
1	Water	Inorganic Solid	IS:3025(Part-18):2022	----
			APHA 24rd Edn.2023 - 2540 E (Fixed and Volatile Solids Ignited at 550°C): 2017	----
		Organic Solid	IS:3025(Part-18):2022	----
		pH	IS 3025 (Part 11) Electrometric method: 2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Sulphate (as SO ₄)	IS 3025 (Part 24) section 1Turbidity Method: 2022	----
		Total Solid / Total Dissolved Solid	IS 3025(Part-16):2023	----
		Total Suspended Solid	IS 3025(Part-17):2022	----
		Acidity	IS 3025(Part-22):2024	----
		Chloride (as Cl)	IS 3025(Part-32):1988 Argentometric Method, RA: 2019	----
		Calcium (as Ca)	IS 3025 (Part 40): 2024	----
		Magnesium (as Mg)	IS 3025 (Part 46):2023	----
		Chemical oxygen demand	IS 3025 (Part 58): 2023	----
		Bio Chemical oxygen demand	IS 3025 (Part 44):2023	----
		Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009	----
		Conductivity	IS 3025 (Part 14): 2013	----
		Dissolved oxygen	IS 3025 (Part 38): 2025	----
		Silica (as SiO ₂)	IS 3025 (Part 35): 2024	Spectrophotometer
		Iron (as Fe)	IS 3025 (Part 53): 2024	Spectrophotometer
		Fluoride (as F)	APHA 24rd Edn.2023-- 4500F-D (Spands method)	Spectrophotometer
		Colour	IS 3025 (Part 4): 2021	----
		Alkalinity	IS 3025(Part-23):2023	----
		Turbidity	IS 3025 (Part 10): 2023	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Sulphate (as SO ₃)	IS 3025 (Part 24): Sec:1 2022	----
		Sodium (as Na)	IS 3025 (Part 45):2024	----
		Potassium (as K)	IS 3025 (Part 45):2024	----

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Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group: Building Material				
1	Aggregate (Coarse)	10% fine Value	IS 2386(Part-4):1963, Amd. -3,:1983	----
		Aggregate Crushing Value	IS 2386(Part-4):1963, Amd. -3,:1983	---- ----
		Bulk Density	IS 2386(Part-3):1963, Amd-1:2018	----
		Combined Flakiness & Elongation Index	IS 2386(Part-1):1963, Amd-4:2010	---- ----
		Sieve Analysis	IS 2386(Part-1):1963, Amd-4:2010	----
		Impact Value	IS 2386(Part-4):1963, Amd-3,:1983	---- ----
		Los Angeles Abrasion Test	IS 2386(Part-4):1963, Amd. -3,:1983	----
		Material finer than 75 micron IS sieve	IS 2386(Part-1):1963, Amd-4:2010	----
		Soundness Test	IS 2386(Part-5):1963 RA: 2021	----
		Specific Gravity	IS 2386(Part-3):1963, Amd-1:2018	----
		Water Absorption	IS 2386(Part-3):1963, Amd-1:2018	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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		Clay Lumps	IS 2386(Part-2):1963, Amd-1:1983	----
		Coal & Lignite	IS 2386(Part-2):1963, Amd-1:1983	----
		Soft Particles	IS 2386(Part-1):1963, Amd-4:2010	----
		Total of percentage of all deleterious materials	IS 383 : 2016, Amd-2:2019	----
		Alkali aggregate Reactivity by Mortar bar method	IS 2386 : Part 7 Amd. 3 : 2015	----
2	Aggregate (Fine)	Bulk Density	IS 2386(Part-3):1963, Amd-1:2018	----
		Material finer than 75 microns	IS 2386(Part-1):1963, Amd-4:2010	----
		Sieve Analysis	IS 2386(Part-1):1963, Amd-4:2010	----
		Soundness Test	IS 2386(Part-5):1963 RA: 2021	---- ----
		Specific Gravity	IS 2386(Part-3):1963, Amd-1:2018	----
		Water Absorption	IS 2386(Part-3):1963, Amd-1:2018	----
		Clay Lumps	IS 2386(Part-2):1963, Amd-1:1983	----
		Coal & Lignite	IS 2386(Part-2):1963, Amd-1:1983	----
		Organic Impurities	IS 2386(Part-2):1963, Amd-1:1983	Standard sol,

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Silt Content	AS Per CPWD VOL-1: 2019	----
		Silt & Clay content	IS 2386 : Part 2 Amd. 1 : 1983	----
		Total percentage of all deleterious materials	IS 383 : 2016, Amd-2:2019	----
		Fineness Modules	ASTM C136	----
		Bulking	IS 2386: Part 3 Amd. 1 : 2018	----
3	Brick (Brunt Clay Brick)	Dimension (Height)	IS 1077:2025	----
		Dimension (Length)	IS 1077:2025	----
		Dimension (Width)	IS 1077:2025	----
		Efflorescence	IS 3495(Part-3): 2019	----
		Compressive Strength	IS 3495(Part-1): 2019	----
		Water Absorption	IS 3495(Part-2): 2019	----
4	Brick (Brunt Clay Fly Ash Brick)	Dimension (Height)	IS 13757:1993 RA: 2021	----
		Dimension (Length)	IS 13757:1993 RA: 2021	----
		Dimension (Width)	IS 13757:1993 RA: 2021	----
		Efflorescence	IS 3495(Part-3): 2019	----
		Compressive Strength	IS 3495(Part-1): 2019	----
		Water Absorption	IS 3495(Part-2): 2019	----
5	Brick (Pulverized Fuel Ash-Lime)	Dimension (Length)	IS 12894:2002 AMD-2:2018	----
		Dimension (Height)	IS 12894:2002 AMD-2:2018	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Dimension (Width)	IS 12894:2002 AMD-2:2018	----
		Efflorescence	IS 3495(Part-3): 2019	----
		Water Absorption	IS 3495(Part-2): 2019	----
		Compressive Strength	IS 3495(Part-1): 2019	----
		Drying Shrinkage	IS 4139: 1989, AMD-1:2011	----
6	Brick (Sewer Brick)	Dimension (Height)	IS 4885:1988 RA: 2020	----
		Dimension (Length)	IS 4885:1988 RA: 2020	----
		Dimension (Width)	IS 4885:1988 RA: 2020	----
		Compressive Strength	IS 3495(Part-1): 2019	----
		Efflorescence	IS 3495(Part-3): 2019	----
		Water Absorption	IS 3495(Part-2): 2019	----
7	Brick (Pulverised Fuel Ash-Cement Bricks)	Dimension (Height)	IS 16720: 2018, AMD-2:2023	----
		Dimension (Length)	IS 16720: 2018, AMD-2:2023	----
		Dimension (Width)	IS 16720: 2018, AMD-2:2023	----
		Compressive Strength	IS 3495(Part-1): 2019	----
		Efflorescence	IS 3495(Part-3): 2019	----
		Water Absorption	IS 3495(Part-2): 2019	----
8	Cement (OPC / PPC / PSC/Composite)	Compressive Strength 672 hours	IS 4031(Part-6):1988 AMD-4:2013	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Compressive Strength (168 Hours)	IS 4031(Part-6):1988 AMD-4:2013	----
		Compressive Strength (72 Hours)	IS 4031(Part-6):1988 AMD-4:2013	----
		Consistency	IS 4031(Part-4):1988 AMD-2:2013	----
		Density	IS 4031(Part-11):1988 RA: 2019	----
		Final Setting Time	IS 4031(Part-5):1988 AMD-2:2013	----
		Fineness (Blaine's Air Permeability)	IS 4031(Part-2):1999 AMD-2:2017	----
		Initial Setting Time	IS 4031(Part-5):1988 AMD-2:2013	----
		Soundness (Autoclave Method)	IS 4031(Part-3):1988 AMD-2:2013	----
		Soundness (Le-Chatelier Method)	IS 4031(Part-3):1988 AMD-2:2013	----
		Drying Shrinkage	IS 4031(Part-10):1988 AMD-2:2013	----
9	Ceramic/Vitrified Tiles	Length	IS 13630(Part-1): 2019	----
		Width	IS 13630(Part-1): 2019	----
		Thickness	IS 13630(Part-1): 2019	----
		Straightness of Side	IS 13630(Part-1): 2019	----
		Rectangularity	IS 13630(Part-1): 2019	----
		Surface Flatness (Center Curvature)	IS 13630(Part-1): 2019	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Surface Flatness (Edge Curvature)	IS 13630(Part-1): 2019	----
		Surface Flatness (Warpage)	IS 13630(Part-1): 2019	----
		Surface Quality	IS 13630(Part-1): 2019	----
		Water Absorption	IS 13630(Part-2): 2019	----
		Bulk Density	IS 13630(Part-2): 2019	----
		Thermal expansion	IS 13630(Part-4): 2019	----
		Breaking Strength	IS 13630(Part-6): 2019	----
		Modulus of Rupture	IS 13630(Part-6) : 2019	----
		Scratch Hardness of Surface	IS 13630(Part-13): 2019	----
		Moisture Expansion	IS 13630(Part-3): 2019	----
		Resistance to surface abrasion	IS 13630(Part-11): 2019	----
		Thermal shock resistance	IS 13630(Part-5): 2019	----
		Crazing resistance	IS 13630(Part-9): 2019	----
		Frost Resistance	IS 13630(Part-10): 2019	----
		Resistance to deep abrasion	IS 13630(Part-12): 2019	----
10	Bitumen, Modified bitumen, , Bitumen Felts & Bitumen Emulsion	Ductility	IS 1208(Part-1):2023, AMD-1:2024	----
		Flash Point	IS 1448(Part-69): 2019	----
		Fire Point	IS 1448(Part-69): 2019	----
		Loss on Heating	IS 1212:2022	----
		Softening Point	IS 1205:2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Solubility in Trichloroethylene	IS 1216:2023	----
		Penetration	IS 1203:2022, AMD:2024	----
		Absolute Viscosity	IS 1208:1978, AMD-2:2004	----
		Kinematic Viscosity	IS 1206 (Part-3), AMD-1:2024	----
		Specific gravity	IS 1202:2021	----
		Industrial Viscosity	IS 1206 (Part-1): 1978. AMD-2:2004	----
		Elastic Recovery	IS 1208(P-2):2023	----
11	Hardened Concrete	Accelerated Compressive Strength by Boiling Water Method	IS 9013-1978 RA: 2018	----
		Compressive Strength	IS 516(P-1/SEC-1): 2021	----
		Compressive Strength of concrete core	IS 516(P-4) : 2018	----
		Flexural Strength	IS 516(P-1/SEC-1): 2021	----
		Split Tensile Strength	IS 516(P-1/SEC-1): 2021	----
		Rapid Chloride Penetration Test (RCPT)	ASTM C1202-2022	----
		Depth of water penetration under pressure (Water Permeability)	IS 516(Part-2) Sec-1-2018	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
12	AAC Block	Compressive Strength (Cl-8.4, 9.2)	IS 2185(P-3):1984, AMD-1:2009/	----
			IS 6441(P-5):1972 RA: 2022	----
		Density-(Cl-8.3 &9.1)	IS 2185(P-3):1984, AMD-1:2009/	----
			IS 6441(P-1):1972 RA: 2022	----
		Drying Shrinkage- (Cl-8.4,9.2)	IS 2185(P-3):1984, AMD-1:2009/	----
			IS 6441(P-2):1972 RA : 2022	----
		Moisture Content	IS 6441(P-1):1972 RA : 2022	----
		Length- (Cl-3.1 to 3.4 &8.2)	IS 2185(P-3):1984, AMD-1:2009	----
		Width-(Cl-3.1 to 3.4 &8.2)	IS 2185(P-3):1984, AMD-1:2009	----
		Height-(Cl-3.1 to 3.4 &8.2)	IS 2185(P-3):1984, AMD-1:2009	----
		Thermal Conductivity- (Cl-8.5,9.3)	IS 2185(P-3):1984, AMD-1:2009/	----
			IS 3346:1980	----
Surface Texture & Finish-(Cl- 7.1,7.2)	IS 2185(P-3):1984, AMD-1:2009	----		

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
13	Concrete Hollow/Solid Block	Compressive Strength	IS 2185 (P-1) -2005	----
		Density		
		Dimension-Face Cell Thickness		
		Dimension-Height		
		Dimension-Length		
		Dimension-Web thickness		
		Dimension-Width		
		Water Absorption		
		Drying Shrinkage		
		Moisture Movement		
14	Concrete Kerb Stone	Length	IS 5758: 2020, AMD-1:2023	----
		Height	IS 5758: 2020, AMD-1:2023	----
		Chase	IS 5758: 2020, AMD-1:2023	----
		Draw	IS 5758: 2020, AMD-1:2023	----
		Thickness	IS 5758: 2020, AMD-1:2023	----
		Flatness	IS 5758: 2020, AMD-1:2023	----
		Straightness	IS 5758: 2020, AMD-1:2023	----
		Thickness of facing layer	IS 5758: 2020, AMD-1:2023	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		water Absorption	IS 5758: 2020, AMD-1:2023	----
		Compressive Strength	IS 5758: 2020, AMD-1:2023	----
		Bending Strength	IS 5758: 2020, AMD-1:2023	----
		Profile	IS 5758: 2020, AMD-1:2023	----
		Radius	IS 5758: 2020, AMD-1:2023	----
15	Paver Block	Length-(Cl-7.2 &Annex.-B)	IS 15658: 2021 AMD-1:2022	----
		Width-(Cl-7.2 &Annex.-B)	IS 15658: 2021 AMD-1:2022	----
		Arris/Chamfer	IS 15658: 2021 AMD-1:2022	----
		Aspect ratio	IS 15658: 2021 AMD-1:2022	----
		Thickness-(Cl-7.2 &Annex.- B)	IS 15658: 2021 AMD-1:2022	----
		Thickness of wearing layer- (Cl-7.2)	IS 15658: 2021 AMD- 1:2022	----
		Visual Inspection-(Cl-7.1.2)	IS 15658:2021, AMD.-01:2022	----
		Wearing face area	IS 15658: 2021 AMD-1:2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		plan area	IS 15658: 2021 AMD-1:2022	----
		Ratio of wearing face area and plan area	IS 15658: 2021 AMD-1:2022	----
		Deviation from squareness	IS 15658: 2021 AMD-1:2022	---- ----
		Tensile Splitting Strength- (CI-7.3 &Annex. -F)	IS 15658: 2021 AMD-1:2022	----
		Flexural Strength/Breaking Load-(CI-7.3 &Annex. -G)	IS 15658: 2021 AMD-1:2022	----
		Failure load per unit length	IS 15658: 2021 AMD-1:2022	----
		Compressive Strength- (CI-7.3 &Annex. -D)	IS 15658: 2021 AMD-1:2022	----
		Water Absorption- (CI-7.3 &Annex. -C)	IS 15658: 2021 AMD-1:2022	----
		Abrasion resistance (Wet Condition)-(CI-7.3 &Annex. - E)	IS 15658: 2021 AMD-1:2022	----
		Abrasion resistance (Dry Condition)- (CI-7.3 &Annex. -E)	IS 15658: 2021 AMD-1:2022	----
		Freeze thaw Durability- (CI-7.3 &Annex. -H)	IS 15658: 2021 AMD-1:2022	----
		Colour and Texture(CI-7.1.3)	IS 15658:2021, AMD. -01:2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
16	Fly ash	Compressive strength	IS 1727: 1967 AMD-2:2013	----
		Density	IS 1727: 1967 AMD-2:2013	----
		Fineness (By Blaine's air)	IS 1727: 1967 AMD-2:2013	----
		Retained on 45 micron	IS 1727: 1967 AMD-2:2013	----
		Soundness by Autoclave	IS 1727: 1967 AMD-2:2013	----
		Lime reactivity	IS 1727:1967 RA 2018	----
17	Micro Silica	Oversize % Retained on 45 Micron IS sieve	IS 1727 : 1967 AMD-2:2013	----
		Compressive Strength	IS 1727 : 1967 AMD-2:2013	----
		Density	IS 1727 : 1967 AMD-2:2013	----
18	Rock	Density	IS 13030 2025	----
		Point Load Strength	IS 8764:1979 AMD- 2:2011	----
		Porosity	IS 13030 2025	----
		Unconfined Compressive Strength	IS 9143:1979 RA: 2021	----
		Water Content	IS 13030 2025	----
		Slake Durability Test	IS 10050:1981 RA: 2021	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Tensile Strength of Rock (Brazilian Test)	IS 10082:1981 RA: 2021	----
19	Soil	Triaxial - Consolidated Drained (CD) (C)	BS EN ISO 17892-9: 2018	----
		Consolidated Drained (CD) (phi)	BS EN ISO 17892-9: 2018	----
		Triaxial - Consolidated Undrained (CU) with pore water pressure measurement - Angle of Shearing Resistance (phi)	IS 2720(Part-12):1981 RA: 2021	----
		Consolidated Undrained (CU) with pore water pressure measurement - Cohesion (C)	IS 2720(Part-12):1981 RA: 2021	----
		Permeability by Falling Head Method	IS 2720(Part-17):1986 RA: 2021	----
		Permeability By Constant Head Method	IS 2720 (P-17):1986: 2021	----
		20	Stone (Granite, Kota, Marble)	Density
Water Content	IS 13030 2025			----
Apparent Specific Gravity	IS 1124:1974 RA: 2017			----
Specific Gravity	IS 1122 :2023			----
Water Absorption	IS 1124:1974 RA: 2017			----
Apparent Porosity	IS 1124:1974 RA: 2017			----
Apparent Specific Gravity	IS 1124:1974 RA: 2017			----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Hardness (Moh's Scale)	IS 13630 (P-13): 2019	----
		Compressive Strength	IS 1121 Part 1 2023	----
		Spilt Tensile Strength	IS 1121 Part 3 2023	----
		Shear Strength	IS 1121 Part 3 2023 RA 2017	----
		UPV	IS 516 part, sec 1 2018 Amd-2 2024	----
		Resistance to wear	IS 1706-2024	----
	Stone (Granite)	Dimension (Length)	IS 14223 (PART-1):2023	----
		Dimension (Breadth)	IS 14223 (PART-1):2023	----
		Dimension (Thickness)	IS 14223 (PART-1):2023	----
	Stone (Marble)	Dimension (Length)	IS 1130:1969 RA: 2017	----
		Dimension (Breadth)	IS 1130:1969 RA: 2017	----
		Dimension (Thickness)	IS 1130:1969 RA: 2017	----
21	Soil	California Bearing Ratio (CBR)	IS 2720(Part-16):1987 RA: 2021	----
		Consolidation - Reconsolidation Pressure	IS 2720(Part-15):1965 RA: 2021	----
		Direct Shear - Cohesion (C)	IS 2720(Part-13), AMD-1:2009	----
		Direct Shear - Angle of Shearing Resistance (phi)	IS 2720(Part-13), AMD-1:2009	----
		Free Swell Index	IS 2720(Part-40):1977 RA: 2021	----
		Heavy Compaction (MDD)	IS 2720(Part-8):1983 RA: 2020	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Heavy Compaction (OMC)	IS 2720(Part-8):1983 RA: 2020	----
		Grain Size Analysis by Hydrometer	IS 2720(Part-4):1985 RA: 2020	----
		Light Compaction (MDD)	IS 2720(Part-7):1980 AMD-2:1984	----
		Light Compaction (OMC)	IS 2720(Part-7):1980 AMD-2:1984	----
		Liquid Limit by Cone Penetrometer	IS 2720(Part-5):1985 RA: 2020	----
		Water Content by Oven Drying Method	IS 2720(Part-2):1973 RA: 2020	----
		Plastic Limit	IS 2720(Part-5):1985 RA: 2020	----
		Shrinkage Limit	IS 2720(Part-6):1972, AMD-1:1982	----
		Grain Size Analysis, (Dry & Wet)	IS 2720(Part-4):1985 RA: 2020	----
		Specific Gravity- Fine Grained Soil	IS 2720(Part 3/ Section- 2):1980 RA: 2021	----
		Unconfined Compressive Strength	IS 2720(Part-10):1991 RA: 2020	----
		Triaxial Compression - UU (C)	IS 2720(Part-11):1993 RA: 2021	----
		Triaxial Compression - UU (phi)	IS 2720(Part-11):1993 RA: 2021	----

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Plot No. 326, Sector-68, IMT Faridabad (Haryana)-121004, India

Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
22	GSB/WMM/WBM	California Bearing Ratio (CBR)	IS 2720(Part-16):1987 RA: 2021	----
		Flakiness index	IS 2386(P-1):1963, AMD-1:1983	----
		Elongation index	IS 2386(P-1):1963, AMD-1:1983	----
		Impact Value	IS 2386(P-4):1963, AMD-3:1983	----
		Liquid Limit	IS 2720(Part-5):1985 RA: 2020	----
		Plastic Limit	IS 2720(Part-5):1985 RA: 2020	----
		Los Angles Abrasion Test	IS 2386(P-4):1963, AMD-3:1983	----
		Sieve Analysis	IS 2386(P-1):1963, AMD-1:1983	----
		MDD (Heavy Compaction)	IS 2720(Part-8):1983 RA: 2020	----
		OMC (Heavy Compaction)	IS 2720(Part-8):1983 RA: 2020	----
		MDD (Light Compaction)	IS 2720(Part-7):1980 AMD-2:1984	----
		OMC (Light Compaction)	IS 2720(Part-7):1980 AMD-2:1984	----
23	Track Ballast	Aggregate Abrasion Value	IS 2386(P-4):1963, AMD-3:1983	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
24	Plain Gypsum Plaster Board	Aggregate impact value	IS 2386(P-4):1963, AMD-3:1983	----
		Gradation (53-0.75mm)	IS 2386(P-1):1963, AMD-1:1983	----
		Water Absorption	IS 2386(P-2):1963 AMD-1:1983	----
		Paper Liner cl.5.3	IS 2095Part-1:2023	----
		Dimensions & Tolerance Length (cl.7.1–Table-3), Cl- 7.1.1	IS 2095Part-1:2023	----
		Dimensions & Tolerance Width (cl.7.1–Table-3), CL7.1.1	IS 2095Part-1:2023	----
		Dimensions & Tolerance Thickness (cl.7.1–Table- 3),Cl-7.1.1	IS 2095Part-1:2023	----
Dimensions & Tolerance Straightness of Edge (cl.7.1.2.1)	IS 2095Part-1:2023 Annex-A	----		
Dimensions & Tolerance Squareness of Edge (cl.7.1.2.2)	IS 2095Part-1:2023 Annex-A	----		
Dimensions & Tolerance Depth of taper (cl.7.1.3-(a)),Cl	IS 2095Part-1:2023 Annex-B	----		

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Dimensions & Tolerance Width of taper (cl.7.1.3-(b))	IS 2095Part-1:2023 Annex-B	----
		Depth of Gypsum Plaster board after taper (cl.7.1.3-(b))	IS 2095Part-1:2023 Annex-B	----
		Density (cl.7.2-Table-4)	IS 2095Part-1:2023 Annex-C	----
		Flexural Load (cl.7.3-Table-5)	IS 2095Part-1:2023 Annex-D	----
	Plain Gypsum Plaster Board (Type R1 & R2)	Impact Resistance (cl.7.4-Table-6)	IS 2095Part-1:2023 Annex-E	----
	Plain Gypsum Plaster Board (Type R1 & R2)	Surface Hardness (cl.7.5)	IS 2095Part-1:2023 Annex-F	----
	Plain Gypsum Plaster Board (Type R2)	Loading Capability (cl.7.6)	IS 2095Part-1:2023	----
	Plain Gypsum Plaster Board (Type H1,H2,FH&W)	Water Absorption (cl.7.7 Table-7)	IS 2095Part-1:2023 Annex-G	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
25	Coated/Laminated Gypsum Plaster Board	Dimensions & Tolerance Length (cl.6.1.1–Table-2)	IS 2095 Part-2:2022	----
		Dimensions & Tolerance Width (cl.6.1.1–Table-2)	IS 2095 Part-2:2022	----
		Dimensions & Tolerance Thickness (cl.6.1.1–Table-2)	IS 2095 Part-2:2022	----
		Dimensions & Tolerance Straightness of Edge (cl.6.1.2.1)	IS 2095Part-1:2023 Annex-A	----
		Dimensions & Tolerance Squareness of Edge (cl.6.1.2.2)	IS 2095Part-1:2023 Annex-A	----
		Dimensions & Tolerance Edge and End Profiles (cl.6.1.3)	IS 2095Part-2:2022 (cl.6.1.3)	----
		Density (cl.6.2)	IS 2095Part-1:2023 Annex-C	----
		Flexural Breaking Load (cl.6.2 Table-3)	IS 2095Part-1:2023 Annex-D	----
26	Reinforced Gypsum Plaster Board and Ceiling Tiles	Dimensions & Tolerance Length (cl.6.1.1–Table-3)	IS 2095 Part-3:2022	----
		Dimensions & Tolerance Width (cl.6.1.1–Table-3)	IS 2095 Part-3:2022	----
		Dimensions & Tolerance Thickness (cl.6.1.1–Table-3)	IS 2095 Part-3:2022	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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		Dimensions & Tolerance Straightness of Edge (cl.6.1.2.1)	IS 2095Part-1:2023 Annex-A	----
		Dimensions & Tolerance Squareness of Edge (cl.6.1.2.2)	IS 2095Part-1:2023 Annex-A	----
		Dimensions & Tolerance Edge and End Profiles (cl.6.2.2)	IS 2095Part-3:2022 (cl.6.1.3)	----
		Density (cl.6.3 Table-4)	IS 2095Part-1:2023 Annex-C	----
		Flexural Breaking Load (cl.6.4)	IS 2542 (P-2/Sec-4):1981	----
		Impact Strength (cl.6.5 Table-5)	IS 13360(P-5,Sec-5):2017	----
		Water Absorption (cl.6.6 Table-6)	IS 2095Part-1:2023 Annex-G	----
		Jolting Test (cl.6.7)	IS 2095Part-3:2022 Annex-A	----

Group: Mechanical Properties of Material

1	Hot Rolled Medium and High Tensile Structural Steel	Tensile Strength	IS 1608(Part-1): 2022	----
		Yield Stress	IS 1608(Part-1): 2022	----
		% Elongation	IS 1608(Part-1): 2022	----
		0.2% proof stress	IS 1608(Part-1): 2022	----
		Total Elongation at maximum force	IS 1608(Part-1): 2022	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Bend Test	IS 1599: 2023	----
		Reduction of area %	IS 1608(Part-1): 2022	----
		Rebend Test	IS 1786:2008 AMD-4:2019	----
		TS/YS Ratio	IS 1786:2008 AMD-4:2019	----
2	Dimensions for Hot Rolled Steel Beam, Column, Channel & Angle Sections	Mass	IS:808: 2021	----
3	Specification for Rolling & Cutting Tolerance for Hot Rolled Steel Products	Mass	IS: 1852:1985, AMD-2:2001	----
4	Hot rolled carbon steel sheet and strip	Dimensions	IS 1079: 2017	----
5	Cast Ductile Iron Pressure Pipe	Dimension-(CI-13)	IS 8329: 2000	----
6	Galvanized steel stripe & sheet	Dimension-(CI-14)	IS 277:2018, RA 2022	----
7	Spiral Welded Pipe	Dimension-(CI-9)	IS 5504:2025	----
8	Pre-Painted Aluminium Zinc alloy metallic coated steel strip and sheet	Dimension-(CI-13)	IS 15965:2012	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
9	Hot Dip Al-Zinc alloys metallic coated steel strip & sheet	Dimension-(CI-13)	IS 15961:2025	----
10	Ferrous Metal alloy (Tube, Pipe, Rod, Sheet, Angle, Channel, Beam)	Dimension	EMTC/TPM/2.23	----
11	Ferrous Metal alloy (Tube, Pipe, Rod, Sheet, Angle, Channel, Beam)	Mass Per meter	EMTC/TPM/2.24	----
12	Ferrous Metal alloy (TMT)	Mass Per meter	IS 1786:2008 AMD- 4:2019	----
13	Aluminium Composite Panel	Dimension	IS 17682:2021	----
14	Galvanized Steel Chain like fence fabric	Dimension	IS 2721:2003	----
15	Al & Al Alloys (Sheet, Plate, wire, Rod, Bar & its Products)	Reduction Area %	ASTM B557:2015, RA2023	----
		Tensile Strength	ASTM B557:2015, RA2023	----
		0.2% proof stress	ASTM B557:2015, RA2023	----
		Yield Stress	ASTM B557:2015, RA2023	----
		% Elongation	ASTM B557:2015, RA2023	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
16	Al & Al Alloys, Cu & Cu Alloy (Sheet, Plate, wire, Rod, Bar& its Products)	% Elongation	ASTM E8/E8M:2025	----
		% Elongation	IS 1608(Part-1): 2022	----
		0.2% proof stress	ASTM E8/E8M:2025	----
		0.2% proof stress	IS 1608(Part-1): 2022	----
		Bend Test	ASTM E 290:2022	----
		Bend Test	IS 1599:2021	----
		Reduction of area %	ASTM E8/E8M:2025	----
		Reduction of area %	IS 1608(Part-1): 2022	----
		Tensile Strength	ASTM E8/E8M:2025	----
		Tensile Strength	IS 1608(Part-1): 2022	----
		Yield Stress	ASTM E8/E8M:2025	----
Yield Stress	IS 1608(Part-1): 2022	----		
17	Ferrous & Nickel Material & Other Metal alloys & products	% Elongation	IS 1608(Part-1): 2022	----
		% Elongation	ASTM E -8-2022	----
		% Elongation	ISO 6892-1-2019	----
		% Elongation	JIS Z 2241:2022	----
		Reduction of area %	IS 1608(Part-1): 2022	----
		Reduction of area %	ASTM E -8-2022	----
		Reduction of area %	ISO 6892-1-2019	----
		Reduction of area %	JIS Z 2241:2022	----
		0.2% proof stress	IS 1608(Part-1): 2022	----
		0.2% proof stress	ASTM E -8-2022	----
		0.2% proof stress	ISO 6892-1-2019	----
0.2% proof stress	JIS Z 2241:2022	----		

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Flatening Test	ASTM A 530:2018	----
		Flatening Test	IS 2328:2018	----
		Tensile Strength	IS 1608(Part-1): 2022	----
		Tensile Strength	ASTM E -8-2022	----
		Tensile Strength	ISO 6892-1-2019	----
		Tensile Strength	JIS Z 2241:2022	----
		Yield Stress	IS 1608(Part-1): 2022	----
		Yield Stress	ASTM E -8-2022	----
		Yield Stress	ISO 6892-1-2019	----
		Yield Stress	JIS Z 2241:2022	----
		Bend Test	IS 1599:2023	----
18	Welded Plate, Pipe, Rod	Fillet Weld Break (Fracture Test)	AWS D.1.2:2014	----
			AWS B 4.0 :2016	----
			AWS D.1.1:2025	----
			IS 3600(Part-8):2024	----
			ASME Sec-IX:2023	----
			BS EN ISO 9017:2018	----
			IS 7307(Part-1) : 1974	----
		Nick Break	API 1104:22nd: 2021	----
			AWS B 4.0 :2016	----
			IS 2825: 1989	----
			IS 3600(part-8): 2024	----
		Pull out Test (Mock Test)	ASME Sec-IX:2023	----
		Traverse Tensile Strength	IS 7307(Part-1) : 1974	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Welded Guided Face, Root & Side band	API 1104:22nd: 2021	----
		Welded Guided Face, Root & Side band	ASME Sec-IX:2023	----
		Welded Guided Face, Root & Side band	AWS B 4.0 :2016	----
		Welded Guided Face, Root & Side band	BS EN ISO 9017:2018	----
		Welded Guided Face, Root & Side band	IS 7307(Part-1) : 1974	----
19	Welds & welded Specimen	Tear Test	ASME Sec-IX:2023	----
		Traverse Tensile Strength	API 1104:22nd: 2021	----
			ASME Sec-IX:2023	----
			AWS B 4.0 :2016	----
Vicker Hardness Test	IS 3600(part-3): 2025	----		
		Vicker Hardness Test	BS EN ISO 9015-1:2011	----
20	Ferrous & Non Ferrous metals, alloys & Products	Load Test	EMTC/TPM/2.22	----
21	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel/MBCB	Tensile Strength	IS 1608(Part-1): 2022	----
		Percentage Elongation	IS 1608(Part-1): 2022	----
		0.2% proof stress	IS 1608(Part-1): 2022	----
		Total Elongation at maximum force	IS 1608(Part-1): 2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Bend Tests	IS 1599: 2023	----
		Rebend Test	IS 1786:2008 AMD-4:2019	----
		TS/YS Ratio	IS 1786:2008 AMD-4:2019	----
		Mass	IS 1786:2008 AMD-4:2019	----
22	Reinforcement couplers for mechanical splices of bars	% Elongation	IS:1608(Part-1) 2022	----
		Location of failure	IS: 16172:2023	----
		Slip test	IS: 16172:2023	----
		Tensile Strength	IS:1608(Part-1) 2022	----
23	Cast Iron Fittings for Pressure Pipes for Water, Gas & Sewage	Mass	IS 1538:1993, AMD-6:2016	----
	Cast Iron/Ductile Iron Drainage Pipes	Mass	IS 1729:2023	----
24	Centrifugally Cast Iron Pressure pipes for Water, Gas & Sewage application	Mass	IS 1536:2023	----
25	Galvanized Steel Barbed Wire for Fencing	Mass	IS 278:2009 RA: 2020	----
26	Steel plates, sheets, Strips& Flats for Structural & General Engg. Purposes- Dimension	Mass	IS: 1730:1989 RA: 2019	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
27	Steel Tubes for Structural Purposes-Specification	Mass	IS: 1161:2014, AMD-2:2023	----
	Steel Tubes for Structural Purposes	Diameter	IS: 1161:2014, AMD-2:2023	----
28	Steel Pipes	Flattening Test	IS 2328: 2018	----
	Steel Plates	Sides (Length, Width)	IS 1730:1989 RA: 2019	----
	Steel Plates	Thickness	IS 1730:1989 RA: 2019	----
29	Steel Products (Angle, Channel, Beam)	Depth	IS 808: 2021	----
30	Steel Tubes Used for Water Wells	Dimensions	IS 4270:2001, AMD-2:2017	----
31	Steel Bars round and Square for structural and general engineering purpose	Dimensions	IS 1732:1989/ RA: 2019	----
	Steel Bars, Round & Square for Structural & General Engg. Purpose	Mass	IS: 1732:1989 RA:2019	----
	Steel Tubes, Tubulars and Other Wrought Fittings Part 1: Steel Tubes	Mass	IS 1239(Part-1): 2004, AMD-6:2021	----
32	Hollow steel sections for structural use	Mass	IS 4923: 2017, AMD-3:2024	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
33	Wrought aluminium and aluminium alloys — extruded round tube and hollow sections for general engineering purposes	Dimensions	IS 1285:2023	----
34	Ferrous materials, alloys & products	Jominy End Quench/Hardenability Test	IS: 3848:2024	----
35	Ferrous & Nonferrous materials, alloys & products	Brinell Hardness 10/250	ASTM E10 : 2018: 2018	----
		Brinell Hardness 10/250	IS 1500(P-1): 2019	----
		Brinell Hardness 10/500	ASTM E10 : 2018	----
		Brinell Hardness 10/500	IS 1500(P-1):2019: 2019	----
		Brinell Hardness 10/1000	ASTM E10 : 2018	----
		Brinell Hardness 10/1000	IS 1500(P-1): 2019	----
		Brinell Hardness 10/1500	ASTM E10 : 2018	----
		Brinell Hardness 10/1500	IS 1500(P-1): 2019	----
		Brinell Hardness 10/3000	ASTM E10 : 2018	----
		Brinell Hardness 10/3000	IS 1500(P-1): 2019	----
		Brinell Hardness 5/250	ASTM E10 : 2018	----
		Brinell Hardness 5/250	IS 1500(P-1): 2019	----
36	Ferrous & Nonferrous materials, alloys & products	Rockwell Hardness HRA	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Hardness HRBW	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Rockwell Hardness HRC	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Superficial Hardness HR15N	IS 1586(P-1): 2025	----
			ASTM E18 : 2018	----
		Rockwell Superficial Hardness HR30N	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Superficial Hardness HR45N	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Superficial Hardness HR15TW	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Superficial Hardness HR30TW	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
		Rockwell Superficial Hardness HR45TW	ASTM E18 : 2020	----
			IS 1586(P-1): 2025	----
37	Ferrous & Non-Ferrous materials, alloys & products	"Vicker Hardness HV1"	ASTM E92 : : 2017	----
			IS 1501(P-1):: 2025	----
		"Vicker Hardness HV5"	ASTM E92: 2017	----
			IS 1501(P-1):: 2025	----
		"Vicker Hardness HV10"	ASTM E92: 2017	----
			IS 1501(P-1): 2025	----
"Vicker Hardness HV30"	ASTM E92: 2017	----		
	IS 1501(P-1):2025	----		

Jitendra Parmar
Dealing Officer

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 102)

Laboratory Name: TESTING LABORATORY “EMMTECH CALIBRATION”
Plot No. 326, Sector-68, IMT Faridabad (Haryana)-121004, India

Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
38	Ferrous & Non-Ferrous materials, alloys & Products	Micro Vicker Hardness HV0.1	IS 1501(P-1): 2025	----
		Micro Vicker Hardness HV0.1	ASTM E 384:2022	----
		Micro Vicker Hardness HV0.2	IS 1501(P-1): 2025	----
			ASTM E 384:2022	----
		Micro Vicker Hardness HV0.3	IS 1501(P-1): 2025	----
			ASTM E 384	----
		Micro Vicker Hardness HV0.5	IS 1501(P-1): 2025	----
			ASTM E 384:2022	----
39	High strength deformed steel bars & wires for concrete reinforcement (TMT Steel Bar)	Pull Out Test Bond Strength at a measured slip of 0.25 mm	IS 2770(P-1):1967 (RA:2022)	----
		Pull-Out Test Bond Strength at a measured slip of 0.025 mm	IS 2770(P-1):1967 (RA:2022)	----
40	Uncoated Stress relieved low relaxation seven ply strand wire for pre stressed concrete	Breaking strength	IS 1608(P-1):2022	----
		Diameter difference between centre and surrounding wire	IS 14268:2022	----
		Length of lay	IS 14268:2022	----
		Nominal area	IS 14268:2022	----
		Nominal diameter	IS 14268:2022	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
41	Bolt/screw fasteners	Nominal mass	IS 14268:2022	----
		Workmanship & Finish	IS 14268:2022	----
		% Elongation on 600 mm Gauge Length	IS 1608(P-1):2022	----
		0.2 % proof load	IS 1608(P-1):2022	----
		Modulus of elasticity	IS 1608(P-1):2022	----
		Tensile Strength	ASTM A 193:2025 IS 1367 Part 3 2017	----
		% Elongation	IS 1367 Part 3 2017 ASTM A 193:2025	----
		Yield Strength	ASTM A 193:2025 IS 1367 Part 3 2017	----
		Proof Load	IS 1367 Part 3 2017 ASTM A 193	----
		Reduction of Area %	IS 1367 Part 3 2017 ASTM A 193	----
42	Nut	Hardness HRB/HRC	IS 1586 Part 1 2025	----
		Dimension	IS 3757 1985, AMD-2:1989	----
		Dimension	EN 14399-3 2015	----
43	Washer	Proof Load	IS 1367 Part 6:2025	----
		Hardness	IS 1586 Part 1 2025	----
		Hardness	IS 1586 Part 1 2025	----

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Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
44	Aluminium & Its Alloys and bars, rod	Dimension /Size Dia	IS 2673:2002	----
		0.2% Proof Stress	IS 1608 Part-1:2022	----
		Dimension /Size Thickness	IS 6477:1983	----
		Elongation	IS 1608 Part-1:2022	----
		Freedom from defect	IS 733:1983, AMD-2:2018	----
		Tensile Strength	IS 1608 Part-1:2022	----
		Thickness	IS 2676:1981	----
45	Aluminium Composite Panel	Dimensions	IS 17682 annex B 2021, AMD-2:2025	----

		Squareness, straightness	IS 17682 annex C:2021, AMD-2:2025	----
		Tensile strength	IS 1608 (Part 1) 2022	----
Yield Strength	IS 1608 (Part 1) 2022	----		
Elongation	IS 1608 (Part 1) 2022	----		
Group: Metallographic Test				
1	Ferrous materials, alloys & Products	Micro Structure @ (50X , 100X, 200X , 500X) Magnification	ASM-9:2004	----
		Case Depth	IS 6416:2022	----

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Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Mechanical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Phase analysis @ (50X ,100X, 200X , 500X) Magnification	ASTM E562: 2019	----
		Grain Size @ 100X Magnification	IS 4748: 2021	----
		Grain Size @ 100X Magnification	ASTM E 112: 2019	----
		Coating thickness @ 100 X	IS 3203:1982, AMD-1:1987	----
		Coating Thickness @ 100 X	ASTM B 499: 2021	----
		Decarburization @ (50X ,100X, 200X , 500X) Magnification	IS 6396:2023	----
		Decarburization @ (50X ,100X, 200X , 500X) Magnification	ASTM E 1077: 2021	----
		Inclusion	IS 4163: 2021	----
		Inclusion	ASTM E 45: 2025	----
		Macro /Micro Examination	IS 11371:2022	----
		Macro /Micro Examination	ASME Sec-9: 2019	----
		Macro /Micro Examination	AWS D.1.2:2014	----
		Macro /Micro Examination	IS 7307(Part-1) : 1974	----
		Macro /Micro Examination	API 1104:22nd: 2021	----
		Macro /Micro Examination	ASME Sec-IX:2023	----
		Heat Affected Zone	ASME Sec-9: 2019	----

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Plot No. 326, Sector-68, IMT Faridabad (Haryana)-121004, India

Validity: 28.10.2025 to 27.10.2027 **Amended on** N/A

Non-Destructive Testing (At Site)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Other (Hardened concrete)

1	Concrete/Reinforced Concrete (NDT)	Ultrasonic Pulse Velocity Test	IS 516(P-5/SEC-1): 2018	----
2	Concrete (NDT)	Rebound Hammer	IS 516(P-5/SEC-4): 2020	----
3	Concrete (NDT)	Carbonation test	IS 516(P-5/SEC-3): 2021	----
4	Concrete (NDT)	"Crack Depth measurement in reinforced structures"	IS 516(P-5/SEC-1): 2018	----
5	Reinforced Concrete Structure	Pile Integrity test	IS 14893-2021	----
6	Reinforced Concrete Structure	Pile Integrity test	ASTM D5882:2016	----
7	Reinforced Concrete Structure	Half-cell potentials	ASTM C876:2022	----
	Reinforced Concrete Structure	Half-cell potentials	IS 516(Part-5/Sec-2):2021	----

Other (soil Field)

8	Soil/GSB/WMM/WBM	Compaction (by Soil Core Cutter)	IS 2720 (P-29):1975 RA: 2020	----
9	Soil/GSB/WMM/WBM	Compaction (by Sand Replacement)	IS 2720 (P-28):1974 RA: 2020	----
10	Soil	Load test	IS 1888:1982 RA:2021	----

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