National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TOWER & MATERIAL TESTING LAB - KEC INTERNATIONAL LTD NAGPUR, B-190/215 MIDC INDUSTRIAL AREA, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5758 **Page No** 1 of 4

Validity 29/05/2022 to 28/05/2024 **Last Amended on** 17/11/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings on Galvanized articles	Mass of Zinc coating	IS 6745
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings on Galvanized articles	Mass of Zinc coating	ISO 1460
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings on Galvanized articles	Mass of zinc coatings	ASTM A90M
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings on galvanized articles	Zinc coating uniformity test / Preece Test	ASTM A239
5	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings on galvanized articles	Zinc coating uniformity test / Preece Test	IS 2633
6	CHEMICAL- METALS & ALLOYS	Structural steel	Aluminium	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Structural steel	Aluminium	IS 8811
8	CHEMICAL- METALS & ALLOYS	Structural steel	Carbon	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Structural steel	Carbon	IS 8811
10	CHEMICAL- METALS & ALLOYS	Structural steel	Chromium	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Structural Steel	Chromium	IS 8811
12	CHEMICAL- METALS & ALLOYS	Structural steel	Copper	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Structural steel	Copper	IS 8811
14	CHEMICAL- METALS & ALLOYS	Structural steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Structural steel	Molybdenum	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Structural steel	Molybdenum	IS 8811

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Certificate Number TC-5758 **Page No** 2 of 4

Validity 29/05/2022 to 28/05/2024 **Last Amended on** 17/11/2022

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17	CHEMICAL- METALS & ALLOYS	Structural steel	Nickel	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Structural steel	Nickel	IS 8811
19	CHEMICAL- METALS & ALLOYS	Structural Steel	Niobium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Structural steel	Niobium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Structural Steel	Phosphorous	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Structural steel	Phosphorous	IS 8811
23	CHEMICAL- METALS & ALLOYS	Structural steel	Silicon	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Structural steel	Silicon	IS 8811
25	CHEMICAL- METALS & ALLOYS	Structural steel	Sulphur	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Structural steel	Sulphur	IS 8811
27	CHEMICAL- METALS & ALLOYS	Structural steel	Titanium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Structural steel	Titanium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Structural steel	Vanadium	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Structural steel	Vanadium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Strurtural steel	Manganese	ASTM E415
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ASTM E8M
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	IS 1608-Part1
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ISO 6892-1

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5758	**Page No**	3 of 4
Validity	29/05/2022 to 28/05/2024	**Last Amended on**	17/11/2022

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35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend	ASTM A370 (Shapes: Angles, Beams, Channels, T-sections, Z-sections, Rods & Bars and Flat)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend	IS 1599 (Shapes: Angles, Beams, Channels, T-sections, Z-sections, Rods & Bars and Flat)
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at 0 degree Celsius of temperature	IS 1757-Part1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at 0 degree Celsius temperature	BSEN ISO 148-1
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at -20 degree Celsius of temperature	BS EN ISO 148-1
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at -20 Degree Celsius of temperature	IS 1757-Part 1
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at Room temperature	BSEN ISO 148-1
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact (V-notch) at Room temperature	IS 1757-Part 1
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile strength	ASTM E8M
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile strength	IS 1608-Part1
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile strength	ISO 6892-1
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Weight of steel per metre	ASTM A6M
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Weight of steel per metre	BSEN 10056-1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5758 **Page No** 4 of 4

Validity 29/05/2022 to 28/05/2024 **Last Amended on** 17/11/2022

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48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield stress	ASTM E8M
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield stress	IS 1608-Part 1
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield stress	ISO 6892-1
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hot Rolled Steel Beam ,Colomn,Channel & Angles	Weight of steel per metre	IS 808
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Adhesion test	ASTM A123M
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Adhesion test	IS 2629
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Adhesion test	ISO 1461
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Thickness of zinc coating	IS 4759
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Thickness of zinc coating	ISO 1461
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coating (Angle: 25x25x3mm - 250x250x35mm and Plate 0.5mm to 40mm)	Thickness of Zinc coatings	ASTM A123M
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic coatings (Angle: 25x25x3mm to 250x250x35mm)	Embrittlement test	ASTM A143M
59	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Prototype Transmission Tower testing	Loading Test (Full Scale) except strain measurement	IS 802 Part III/IEC 60652