National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MATERIAL TESTING LABORATORY AND QUALITY MANAGEMENT CENTRE, SIBBARI ROAD, ATHAL-BASTI, GHUNGOOR (SMS), SILCHAR, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6157 **Page No** 1 of 3

Validity 26/10/2021 to 25/10/2023 **Last Amended on** 15/12/2021

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- WATER	Water	Acidity (as CaCO3)	IS 3025 Pt- 22
2	CHEMICAL- WATER	Water	Alkalinity (as CaCO3)	IS 3025 Pt-23
3	CHEMICAL- WATER	Water	Chlorides (as Cl)	IS 3025 Pt- 32
4	CHEMICAL- WATER	Water	Organic solid and Inorganic solid (Volatile and fixed residue)	IS 3025 Pt-18
5	CHEMICAL- WATER	Water	pH	IS 3025 Pt-11
6	CHEMICAL- WATER	Water	Sulphates (as SO3)	IS 3025 Pt- 24
7	CHEMICAL- WATER	Water	Suspended (non filterable) matter	IS 3025 Pt- 17
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Pt-I
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Pt-3
10	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 Pt-2
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 Pt-4
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 Pt-4
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 Pt-5
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 Pt-I
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031 Pt- 5
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier Method	IS 4031 Pt- 3
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 Pt-4
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Pt-I
19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Pt-I
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angles Abrasion Value	IS 2386 Pt- 4

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21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Particle size distribution	IS 383
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 Pt-3
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 Pt-3
24	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Free Surface Moisture	IS 2386 Pt- 3
25	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle size distribution	IS 383
26	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 Pt-3
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 Pt- 3
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metal	% of Elongation	IS 1608 :Part 1
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metal	Bend test (Mandrel size in mm): 8/10/12/20/30/32/36/40/44/50/60/70/76/84/90/96/112/120	IS 1599 & IS 1786
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metal	Re-bend test(Mandrel size in mm) : 8/10/12/20/30/32/36/40/44/50/60/70/76/84/90/96/112/120	IS 1599 & IS 1786
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metal	Yield Strength (Load Range 10 kN to 600 kN)	IS 1608 :Part 1
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metals	Reduction of Area	IS 1608 : Part 1
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous metals	Ultimate Tensile Stress (Load Range 10 kN to 600 kN)	IS 1608 : Part 1
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals	% of Elongation	IS 1608 :Part 1
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals	% of Reduction of area	IS 1608:Part 1

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36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals	Bend test	IS 1599 & IS 1786
37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals	Ultimate Tensile Stress (Load Range 10 kN to 600 kN)	IS 1608:Part 1
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals	Yield Strength (Load Range 10 kN to 600 kN)	IS 1608:Part 1
39	MECHANICAL- SOIL AND ROCK	Soils	Atterberg's limits	IS 2720 Pt-5
40	MECHANICAL- SOIL AND ROCK	Soils	CBR	IS 2720 Pt-16
41	MECHANICAL- SOIL AND ROCK	Soils	Grain size analysis	IS 2720 Pt-4
42	MECHANICAL- SOIL AND ROCK	Soils	Maximum Dry Density (by Standard Proctor)	IS 2720 Pt-7
43	MECHANICAL- SOIL AND ROCK	Soils	Moisture Content	IS 2720 Pt-9
44	MECHANICAL- SOIL AND ROCK	Soils	Optimum Moisture Content (by Standard Proctor)	IS 2720 Pt-8
45	MECHANICAL- SOIL AND ROCK	Soils	Specific gravity	IS 2720 Pt- 3