National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL METALLURGICAL TESTING UNIT, FOUNDRY FORGE PLANT, HEAVY ENGINEERING CORPORATION LIMITED, RANCHI, HEC LTD., RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7292 **Page No** 1 of 2

Validity 10/01/2022 to 09/01/2024 **Last Amended on** -

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- METALS & ALLOYS	Carbon And Low Alloy Steel.	Aluminium	ASTM E-415
2	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Antimony	ASTM E-415
3	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Arsenic	ASTM E-415
4	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Carbon	ASTM E-415
5	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Chromium	ASTM E-415
6	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Cobalt	ASTM E-415
7	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Copper	ASTM E-415
8	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Manganese	ASTM E-415
9	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Molybdenum	ASTM E-415
10	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Nickel	ASTM E-415
11	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Phosphorus	ASTM E-415
12	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Silicon	ASTM E-415
13	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Sulphur	ASTM E-415
14	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Tin	ASTM E-415
15	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel.	Vanadium	ASTM E-415
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	% Elongation at High Temperature up to 600 degree Celsius.	ASTM E-21
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	% Elongation at Room Temperature	IS1608 Part-1

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18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	% Reduction in Area at High Temperature up to 600 degree Celsius.	ASTM E-21
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	% Reduction in area at Room Temperature	IS 1608 Part-1
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	0.2% Proof Strength at High Temperature up to 600 degree Celsius.	ASTM E-21
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	0.2% Proof Strength at Room Temperature	IS 1608 Part-1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen	Tensile Strength at High Temperature up to 350 degree Celsius.	ASTM E-21
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen.	Charpy 'V' notch Impact Test from ambient temperature to -50 Degree Celsius.	ASTM E_23
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products, welds and welded test specimen.	Tensile Strength at room Temperature	IS 1608-part-1