National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY MANAGEMENT LABS, BHEL, CFFP, BHARAT HEAVY ELECTRICALS LIMITED (CFFP), HARIDWAR, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6562 **Page No** 1 of 3

Validity 26/10/2021 to 25/10/2023 **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	High Alloy / Stainless Steel	Copper	ISO 14707 E
2	CHEMICAL- METALS & ALLOYS	High Alloy / Stainless Steel	Molybdenum	ISO 14707 E
3	CHEMICAL- METALS & ALLOYS	High alloy / Stainless Steel	Silicon	ISO 14707 E
4	CHEMICAL- METALS & ALLOYS	High Alloy / Stainless Steel	Titanium	ISO 14707 E
5	CHEMICAL- METALS & ALLOYS	High Alloy /Stainless Steel	Chromium	ISO 14707 E
6	CHEMICAL- METALS & ALLOYS	High Alloy Stainless Steel	Carbon	ISO 14707(E)
7	CHEMICAL- METALS & ALLOYS	High Alloy/ Stainless Steel	Manganese	ISO 14707 E
8	CHEMICAL- METALS & ALLOYS	High Alloy/ Stainless Steel	Nickel	ISO 14707 E
9	CHEMICAL- METALS & ALLOYS	High alloy/ Stainless Steel	Phosphorous	ISO 14707 E
10	CHEMICAL- METALS & ALLOYS	High Alloy/ Stainless Steel	Sulphur	ISO 14707(E)
11	CHEMICAL- METALS & ALLOYS	High Alloy/ Stainless Steel	Tungsten	ISO 14707 E
12	CHEMICAL- METALS & ALLOYS	High Alloy/ Stainless Steel	Vanadium	ISO 14707 E
13	CHEMICAL- METALS & ALLOYS	Low Alloy / Plain carbon Steel	Carbon	ISO 14707 E
14	CHEMICAL- METALS & ALLOYS	Low Alloy /Plain Carbon Steel	Manganese	ISO 14707E
15	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Aluminium	ISO 14707E
16	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Chromium	ISO14707E
17	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Copper	ISO14707E
18	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Molybdenum	ISO 14707E

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19	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Nickel	ISO14707E
20	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Phosphorus	ISO14707E
21	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Silicon	ISO14707E
22	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Sulphur	ISO14707E
23	CHEMICAL- METALS & ALLOYS	Low Alloy/ Plain Carbon Steel	Vanadium	ISO14707E
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material (Casting & Forgings)	Charpy Impact testing (V-notch) (at temperature range from -50°C to +150°C)	IS 1757 (1)
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	% Elongation	ASTM E8/E8M
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	% Elongation	IS 1608
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	% Reduction in area(%Ra)	ASTM E8/E8M
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	%Reduction in Area(Ra)	IS1608
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Bend Testing	IS 1599
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Brinell Hardness	IS 1500-1
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Charpy Impact testing (U-notch) (at room temperature)	IS1499
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Tensile (0.2%PS)	ASTM E8/E8M
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Tensile (0.2%PS)	IS1608

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34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Tensile (UTS)	ASTM E8/E8M
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials (Castings & Forgings)	Tensile (UTS)	IS1608
36	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain size (by Comparison Method)	IS 4748
37	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Inclusion Rating : Method A	ASTM E45
38	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Inclusion Rating by Method A	IS 4163
39	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Grain Size (by Comparison method)	ASTM E112
40	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials (Castings & Forgings)	Microstructural Analysis	ASM Metals Handbook, Vol-9