National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING AND CALIBRATION LABORATORIES R&D CENTRE, BEML LIMITED, BEML NAGAR, KGF, KOLAR, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5705 **Page No** 1 of 3

Validity 23/08/2022 to 22/08/2024 **Last Amended on** 26/08/2022

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- METALS & ALLOYS	Aluminium & its alloys	Chrominum	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Boron	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Carbon	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Chromium	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Copper	IS 8811
16	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Manganese	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Molybdenum	IS 8811
18	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Nickel	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Phosphorus	IS 8811
20	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Silicon	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Sulphur	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon and Low alloy steel	Vanadium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon, sulphur analysis by combustion method	Carbon	ASTM E1019
24	CHEMICAL- METALS & ALLOYS	Carbon, sulphur analysis by combustion method	Sulphur	ASTM E1019
25	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Aluminium	ASTM E2209
26	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Carbon	ASTM E2209
27	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Chromium	ASTM E2209
28	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Manganese	ASTM E2209
29	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Molybdenum	ASTM E2209
30	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Nickel	ASTM E2209
31	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Phosphorus	ASTM E2209
32	CHEMICAL- METALS & ALLOYS	High Manganese Steel	Silicon	ASTM E2209
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Brinell Hardness	IS 1500-1
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Brinell Hardness	IS 1500-1
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Brinell Hardness	IS 1500-1

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36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Micro Vickers Hardness	IS 1501-1
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Micro Vickers Hardness	IS 1501-1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Micro Vickers Hardness	IS 1501-1
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Rockwell Hardness - B Scale	IS 1586-1
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Rockwell Hardness - B Scale	IS 1586-1
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous Metals and its Alloys	Rockwell Hardness - B Scale	IS 1586-1
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness - C Scale	IS 1586-1
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness - C Scale	IS 1586-1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness - C Scale	IS 1586-1
45	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth moving Machinery Cabin	Performance Test Roll over Protective structures (ROPS)	ISO 3471
46	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth Moving Machinery Cabin	Performance Test Falling object protective Structures (FOPS)	ISO 3449
47	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Metro Bogie Chassis Frame	Static and Fatigue Testing	UIC- 615-4