National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GODREJ METALLURGICAL TESTING LABORATORY, GODREJ PRECISION ENGG., GODREJ & BOYCE MFG CO. LTD. PLANT 04, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7932 **Page No** 1 of 3

Validity 26/09/2021 to 25/09/2023 **Last Amended on** 06/12/2021

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- METALS & ALLOYS	Austenitic Stainless Steel	Chemical Analysis of C, Si, Mn, P, S, Cr, Ni, Mo, Cu, N, V, Co.	ASTM E 1086, IS 9879
2	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Alloy Steel	Chemical Analysis of C, Si, Mn, P, S, Cr, Ni, Mo, Al, Cu, N, V, Co, Ti, Sn, Nb	ASTM E 415, IS 8811
3	CHEMICAL- METALS & ALLOYS	Titanium Alloys	Chemical Analysis of Fe, Si, Al, V, Zr.	ASTM E 2994
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, metals and alloys Fasteners (Bolts, Nuts)	Proof Load	IS 1367 (Part 6), ASTM A 370, IS 1367 (Part 3)
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Bend Test	ASTM A 370, ASME Section IX
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Charpy Impact Test (V notch & U notch) Temp. Range: Ambient to (-) 196°C	ASTM A 370, ASME Section IX
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Drop Weight Testing	ASTM E 208
8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature (50 Deg C to 350 Deg C) Tensile Test 0.2 % PS	ASTM E 21 : 2020, Section IX :
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature (50 Deg C to 350 Deg C) Tensile Test 0.2 % PS	ASTM E 21, Section IX
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature (50 Deg C to 350 Deg C) Tensile Test UTS	ASTM E 21, ASME Section IX
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature Tensile Test (50 Deg C to 350 Deg C) % RA	ASTM E 21
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature Tensile Test (50 Deg C to 350 Deg C) YS	ASTM E 21, ASME Section IX
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Elevated Temperature Tensile Test (50 Deg C to 350 Deg C)% E	ASTM E 21, ASME Section IX
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Hardness Test (VICKERS) HV1	ASTM E 92, ASME Section IX

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Certificate Number TC-7932 **Page No** 2 of 3

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15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Hardness Test (VICKERS) HV10	ASTM E 92, ASME Section IX
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Hardness Test (VICKERS) HV30	ASTM E 92, ASME Section IX
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Hardness Test (VICKERS) HV5	ASTM E 92, ASME Section IX
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test % Elongation	ASTM A 370, ASME Section IX
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test % RA	ASTM A 370, ASME Section IX
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test 0.2% PS	ASTM A 370, ASME Section IX
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test Through Thickness (%RA)	ASTM A 770
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test UTS	ASTM A 370, ASME Section IX
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys	Tensile Test YS	ASTM A 370, ASME Section IX
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Nonferrous, welded metals and alloys (Tubes/Pipes)	Flattening Test	ASTM A 370
25	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice A	ASTM A 262
26	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice B	ASTM A 262
27	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice C	ASTM A 262
28	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice E	ASTM A 262
29	MECHANICAL-METALLOGRAPHY TEST	Ferrous base & Ti based components. Welded material of Ferrous & Ti based.	Macro Etch Test of welds	ASTM E 340, ASTM E 381, ASME (Sec IX)

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30	MECHANICAL-METALLOGRAPHY TEST	Ferrous base & Ti based components. Welded material of Ferrous & Ti based.	Microstructure	ASTM E 3, ASTM E 407, ASM Metal Hand Book Vol. IX
31	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals and Alloys	Inclusion Rating In Steel	ASTM E 45
32	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Welded Metals and Alloys	Ferrite Measurement with Ferrite scope	ASTM A 800/800M
33	MECHANICAL-METALLOGRAPHY TEST	Steels	Average Grain Size Measurement. Austentic Grain size in Austenitic Steel. Ferritic grain size in ferritic steel.	ASTM E 112