National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL DOCKYARD LABORATORY, BUILDING NO. 43, NAVAL DOCKYARD, VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/07/2021 to 25/07/2023 **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- LUBRICANTS	Oil &Lubricants	Flash point(COC)	IS 1448 (Part 69)
2	CHEMICAL- LUBRICANTS	Oil &Lubricants	Water Content	IS 1448(part-40)
3	CHEMICAL- LUBRICANTS	Oil&Lubricants	Flash point(PMCC)	IS:1448(part-21)
4	CHEMICAL- LUBRICANTS	oil&lubricants	k" viscosity @100 °C	IS 1448 (PART 25)
5	CHEMICAL- LUBRICANTS	Oil&Lubricants	Total Acid Number	IS 1448 (Part 1/Sec 1)
6	CHEMICAL- LUBRICANTS	Oil&Lubricants	Total Base Number(TBN)	IS 1448(Part1/Section2)
7	CHEMICAL- LUBRICANTS	Oil&Lubricants	Wear Metal Analysis(Cu,Fe,Sn,Pb,Zn,Ag,Ca, Na,Si,Al,Cd,Mg,Ni,B,Cr,Mn,P,Ti, Ba,Mo,V.	ASTM D 6595
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTME 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTME E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTME 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTME 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Chromium	ASTM E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Copper	ASTM E 1251
17	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Magnesium	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Manganese	ASTM E 1251
19	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Nickel	ASTM E 1251
20	CHEMICAL- METALS & ALLOYS	Aluminium &its alloys	Titanium	ASTM E 1251

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21	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Carbon	IS:9879
22	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Chromium	IS 9879
23	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Manganese	IS 9879
24	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Molybdenum	IS 9879
25	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Nickel	IS 9879
26	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Phosphorus	IS 9879
27	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Silicon	IS 9879
28	CHEMICAL- METALS & ALLOYS	Austenitic stainless steel	Sulphur	IS 9879
29	CHEMICAL- METALS & ALLOYS	Copper alloys	Manganese	ND(V)/CDL/TMV/4500/01
30	CHEMICAL- METALS & ALLOYS	Copper alloys	Titanium	ND(V)/CDL/TMV/450/1 ISSUE NO 01
31	CHEMICAL- METALS & ALLOYS	Copper alloys	Zinc	ND(V)/CDL/TMV/4500/01 Issue no 01
32	CHEMICAL- METALS & ALLOYS	Copper alloys	Bismuth	ND(V)/CDL/TMV/4500/01 Issue No. 01
33	CHEMICAL- METALS & ALLOYS	Copper alloys	Chromium	ND(V)/CDL/TMV/4500/01 Issue no 01
34	CHEMICAL- METALS & ALLOYS	Copper alloys	Iron	ND(V)/CDL/TMV/4500/01 Issue no 01
35	CHEMICAL- METALS & ALLOYS	Copper alloys	Lead	ND(V)/CDL/TMV/4500/01 Issue no.01
36	CHEMICAL- METALS & ALLOYS	Copper alloys	Magnesium	ND(V)/CDL/TMV/4500/01 Issue no 01
37	CHEMICAL- METALS & ALLOYS	Copper alloys	Nickel	ND(V)/CDL/TMV/4500/01 Issue no 01
38	CHEMICAL- METALS & ALLOYS	Copper alloys	Phosphorous	ND(V)/CDL/TMV/4500/01 Issue no 01
39	CHEMICAL- METALS & ALLOYS	Copper alloys	Silicon	ND(V)/CDL/TMV/4500/01 Issue no 01

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40	CHEMICAL- METALS & ALLOYS	Copper alloys	Sulphur	ND(V)/CDL/TMV/4500/01 Issue no 01
41	CHEMICAL- METALS & ALLOYS	Copper alloys	Tin	ND(V)/CDL/TMV/450001 Issue no.1
42	CHEMICAL- METALS & ALLOYS	Low alloy steel	Phosphorus	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low alloy steel	Carbon	IS:8811
44	CHEMICAL- METALS & ALLOYS	Low alloy steel	Chromium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low alloy steel	Copper	IS :8811
46	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low alloy steel	Molybdenum	IS:8811
48	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nickel	IS:8811
49	CHEMICAL- METALS & ALLOYS	Low alloy steel	Silicon	IS 8811
50	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulphur	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low alloy steel	Vanadium	IS:8811
52	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Aluminium	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
53	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Chromium	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
54	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Copper	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
55	CHEMICAL- METALS & ALLOYS	TItanium & its alloys	Iron	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
56	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Molybdenum	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
57	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Silicon	ND(V)/CDL/TMV/4500/02 ISSUE NO 01
58	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Tin	ND(V)/CDL/TMV/4500/02 ISSUE NO.1

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59	CHEMICAL- METALS & ALLOYS	Titanium & its alloys	Vanadium	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
60	CHEMICAL- METALS & ALLOYS	Titanium &its alloys	Manganese	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
61	CHEMICAL- METALS & ALLOYS	Titanium &its alloys	Zirconium	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
62	CHEMICAL- METALS & ALLOYS	Titanium& its alloys	Carbon	ND(V)/CDL/TMV/4500/02 ISSUE NO 01
63	CHEMICAL- METALS & ALLOYS	Titaniun & its alloys	Nickel	ND(V)/CDL/TMV/4500/02 ISSUE NO.1
64	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	color	IS 5
65	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Consistency	IS 3944 ,IS 101 Pt 1 sec 5
66	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Consistency	IS 3944:1982, IS 101 Pt 1 sec 5
67	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Flash Point	IS 101 (part 1) Sec 6
68	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Flash Point	IS:101(Part 1)Sec 6
69	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Flexibility & Adhesion (Bend test)	IS 101 (part 5)sec 2
70	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Flexibility&Adhesion(Bend test)	IS 101 (Part 5) Sec 2
71	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Resistance to Humidity under conditions of condensation (Artificial Sea water spray test)	IS:101(Part 6)Sec 1
72	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Resistance to Humidity under conditions of condensation (Artificial Sea water spray test)	IS 101(Pt 6) sec 1
73	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Resistance to water	IS 101 (part 7) sec
74	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Resistance to Water	IS:101 (Part7)Sec1
75	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Volatile Matter	IS 101 (Part 2) sec 2
76	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Volatile Matter	IS 101 Part 2 Sec 2

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77	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Weight in Kg/10L	IS 101 (Part 1) Sec 7
78	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Weight in Kg/10L	IS 101 (Part 1)
79	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Flash Point (PMCC)	IS 1448 (Part 21)
80	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	K Viscosity @50 degrees centigrade	IS 1448 (Part 25)
81	CHEMICAL- WATER	Cooling water	Total Hardness	IS:3025(P-21)
82	CHEMICAL- WATER	Cooling watet	Chlorides	IS:3025(P-32)
83	CHEMICAL- WATER	Cooling watet	pH	IS :3025(P-11)
84	CHEMICAL- WATER	De Mineral Water	Chlorides	IS:3025(P-32)
85	CHEMICAL- WATER	De Mineral Water	pH	IS:3025(P-11)
86	CHEMICAL- WATER	De Mineral Water	Specific Conductivity	IS 3025 (Part 14)
87	CHEMICAL- WATER	De Mineral Water	Total Hardness	IS:3025(P-21)
88	CHEMICAL- WATER	ultra pure water	Aluminium	NDV/CDL/UPW/TRAN/01
89	CHEMICAL- WATER	ultra pure water	Ammonium	ASTM D6919
90	CHEMICAL- WATER	ultra pure water	Bromide	USEPA 300
91	CHEMICAL- WATER	ultra pure water	calcium	ASTM D 6919
92	CHEMICAL- WATER	ultra pure water	Chlorides	USEPA 300
93	CHEMICAL- WATER	Ultra pure water	Conductivity	IS 3025 (P14)
94	CHEMICAL- WATER	ultra pure water	copper	NDV/CDL/UPW/TRAN/01
95	CHEMICAL- WATER	ultra pure water	Density	IS 3025 P 12
96	CHEMICAL- WATER	ultra pure water	Dissolved oxygen	IS 3025 P 38
97	CHEMICAL- WATER	ultra pure water	Fluoride	USEPA 300
98	CHEMICAL- WATER	ultra pure water	Hydrazine	NDV/CDL/UPW/TRAN/01
99	CHEMICAL- WATER	ultra pure water	Iron	NDV/CDL/UPW/TRAN/01
100	CHEMICAL- WATER	ultra pure water	Lead	NDV/CDL/UPW/TRAN/01
101	CHEMICAL- WATER	ultra pure water	magnesium	ASTM D 6919
102	CHEMICAL- WATER	ultra pure water	Nitrates	USEPA 300
103	CHEMICAL- WATER	ultra pure water	Nitrite	USEPA 300
104	CHEMICAL- WATER	ultra pure water	Oil content	ASTM D 7066

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105	CHEMICAL- WATER	Ultra pure water	pH	IS 3025
106	CHEMICAL- WATER	Ultra pure water	pH	IS 3025 (P11)
107	CHEMICAL- WATER	ultra pure water	Phosphate	USEPA 300
108	CHEMICAL- WATER	ultra pure water	Potassium	ASTM D 6919
109	CHEMICAL- WATER	Ultra pure water	Salinity	APHA 2520 B
110	CHEMICAL- WATER	ultra pure water	Sodium	ASTM D6919
111	CHEMICAL- WATER	ultra pure water	Sulphates	USEPA 300
112	CHEMICAL- WATER	ultra pure water	Total dissolved solids	IS 3025 (P 16)
113	CHEMICAL- WATER	ultra pure water	Total hardness as CaCO3	IS 3025 (P21)
114	CHEMICAL- WATER	ultra pure water	Turbidity	IS 3025 part 10
115	CHEMICAL- WATER	ultra pure water	zinc	NDV/CDL/UPW/TRAN/01
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Brinell hardness	IS 1500
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Vickers Hardness	IS 1501
118	MECHANICAL- NOISE & VIBRATION	Pumps	Vibration velocity	ISO 10816
119	NON-DESTRUCTIVE-METALS & ALLOYS	Forgings	Magnetic particle examination	IS 7453
120	NON-DESTRUCTIVE-METALS & ALLOYS	Plates and forgings	Ultrasonic flaw detection (back wall method only)	IS 4225