



(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name
YOR LAB, PLOT NO. 42/2, SURVEY NO. 83, 150 FEET RING ROAD (WEST), VAVDI,

RAJKOT, GUJARAT, INDIÁ

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-6313 Page No.: 1 / 14

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Pe	ermanent Facility		
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Oxides of nitrogen	IS 5182 (Part 6): 2006	6 μg/m3 to 750 μg/m3
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM2.5)	CPCB guidelines for determination of PM in ambient air (Gravimetric Method): 2007	10 μg/m3 to 500 μg/m3
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide	IS 5182 (Part 2): 2001	8 µg/m3 to 200 µg/m3
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitrogen Dioxide	IS 11255 (Part 7): 2005	2 mg/Nm3 to 400 mg/Nm3
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1): 1985	5 mg/Nm3 to 5000 mg/Nm3
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	IS 11255 (Part 2): 1985	2 mg/Nm3 to 2000 mg/Nm3
7	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC TEST	ASTM A262 (Test A,Test E): 2015	Qualitative(For Practice-E bend test mandrel dia: 3, 4, 5, 6, 8 and 10 mm.)
8	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC Test	ASTM A262 (Test B): 2015	2 mpy to 100 mpy
9	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steel	IGC Test	ASTM A262 (Test C): 2013	2 mpy to 100 mpy





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10	CHEMICAL- CORROSION TESTS	Ferritic, Austenitic and duplex Stainless Steel	IGC Test	EN ISO 3651-2:1998, Method-A: 1998	Qualitative
11	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Chromium	ASTM E1251: 2011	0.06 % to 0.3 %
12	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Copper	ASTM E1251: 2011	0.2 % to 4.0 %
13	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Iron	ASTM E1251: 2011	0.1 % to 1.5 %
14	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Lead	ASTM E1251: 2011	0.003 % to 0.9 %
15	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Magnesium	ASTM E1251: 2011	0.08 % to 2.0 %
16	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Manganese	ASTM E1251: 2011	0.2 % to 1.0 %
17	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Nickel	ASTM E1251: 2011	0.003 % to 0.6 %
18	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Silicon	ASTM E1251: 2011	0.5 % to 14.0 %
19	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Tin	ASTM E1251: 2011	0.006 % to 0.5 %
20	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Titanium	ASTM E1251: 2011	0.09 % to 0.2 %
21	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Vanadium	ASTM E1251: 2011	0.006 % to 0.1 %
22	CHEMICAL- METALS & ALLOYS	Aluminium And Its Alloy	Zinc	ASTM E1251: 2011	0.1 % to 6.0 %
23	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Aluminium	ASTM E 415: 2017	0.01 % to 0.1 %





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24	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Boron	ASTM E 415: 2017	0.001 % to 0.01 %
25	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Carbon	ASTM E 415: 2017	0.03 % to 1.1 %
26	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Chromium	ASTM E 415: 2017	0.01 % to 5.4 %
27	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Copper	ASTM E 415: 2017	0.004 % to 0.5 %
28	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Manganese	ASTM E 415: 2017	0.1 % to 1.5 %
29	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Molybdenum	ASTM E 415: 2017	0.01 % to 1.3 %
30	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Nickel	ASTM E 415: 2017	0.007 % to 2.0 %
31	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Niobium	ASTM E 415: 2017	0.001 % to 0.12 %
32	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Phosphorus	ASTM E 415: 2017	0.005 % to 0.1 %
33	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Silicon	ASTM E 415: 2017	0.02 % to 0.8 %
34	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Sulfur	ASTM E 415: 2017	0.005 % to 0.1 %
35	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Tin	ASTM E 415: 2017	0.002 % to 0.1 %
36	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Titanium	IS 8811: 1998	0.0015 % to 0.1 %
37	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Tungsten	IS 8811: 1998	0.003 % to 0.5 %





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38	CHEMICAL- METALS & ALLOYS	Carbon Steel and Low Alloy Steel	Vanadium	ASTM E 415: 2017	0.003 % to 1.0 %
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338: 2003	0.01 % to 0.3 %
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 9879: RA: 2015	1.5 % to 5.0 %
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338: 2003	0.1 % to 12.0 %
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338: 2003	0.02 % to 1.5 %
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 15338: 2003	0.006 % to 0.1 %
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338: 2003	0.3 % to 3.0 %
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 9879: RA: 2015	0.02 % to 0.5 %
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338: 2003	0.08 % to 1.5 %
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 15338: 2003	0.02 % to 0.2 %
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338: 2003	0.8 % to 2.5 %
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulfur	IS 15338: 2003	0.005 % to 0.1 %
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	IS 15338: 2003	0.006 % to 0.1 %
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338: 2003	0.02 % to 0.1 %





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
52	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Aluminium	BS EN 15079: 2015	0.01 % to 7.0 %
53	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Antimony	BS EN 15079: 2015	0.02 % to 1.0 %
54	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Arsenic	BS EN 15079: 2015	0.006 % to 0.5 %
55	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Bismuth	BS EN 15079: 2015	0.04 % to 0.5 %
56	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Cobalt	BS EN 15079: 2015	0.02 % to 1.0 %
57	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Iron	BS EN 15079: 2015	0.01 % to 6.0 %
58	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Lead	BS EN 15079: 2015	0.06 % to 21.0 %
59	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Nickel	BS EN 15079: 2015	0.03 % to 7.0 %
60	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Phosphorus	BS EN 15079: 2015	0.006 % to 0.2 %
61	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Silicon	BS EN 15079: 2015	0.002 % to 1.0 %
62	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Sulfur	BS EN 15079: 2015	0.01 % to 0.1 %
63	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Tin	BS EN 15079: 2015	0.09 % to 9.0 %
64	CHEMICAL- METALS & ALLOYS	Copper And Its Alloy	Zinc	BS EN 15079: 2015	0.3 % to 45.0 %
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	IS 9879 : 1998	0.01 % to 0.1 %





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66	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879: 1998	0.01 % to 0.3 %
67	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879: 1998	10.0 % to 30.0 %
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879: 1998	0.01 % to 0.2 %
69	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879: 1998	0.02 % to 2.0 %
70	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879: 1998	0.4 % to 10.0 %
71	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879: 1998	0.2 % to 5.0 %
72	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879: 1998	0.2 % to 35.0 %
73	CHEMICAL- METALS & ALLOYS	Stainless steel	Niobium	IS 9879: 1998	0.007 % to 2.0 %
74	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	IS 9879 : 1998	0.04 % to 0.15 %
75	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879: 1998	0.01 % to 0.1 %
76	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879: 1998	0.3 % to 4.5 %
77	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulfur	IS 9879: 1998	0.005 % to 0.1 %
78	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	IS 9879: 1998	0.03 % to 0.1 %
79	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Aluminium	ASTM E2994: 2016	0.05 % to 8.0 %





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80	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Carbon	ASTM E2994: 2016	0.007 % to 0.1 %
81	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Chromium	ASTM E2994: 2016	0.01 % to 0.1 %
82	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Copper	ASTM E2994: 2016	0.002 % to 0.1 %
83	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Iron	ASTM E2994: 2016	0.1 % to 0.3 %
84	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Manganese	ASTM E2994: 2016	0.003 % to 0.1 %
85	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Molybdenum	ASTM E2994: 2016	0.003 % to 0.1 %
86	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Nickel	ASTM E2994: 2016	0.008 % to 0.1 %
87	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Nitrogen	ASTM E2994: 2016	0.003 % to 0.1 %
88	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Silicon	ASTM E2994: 2016	0.007 to 0.1 %
89	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Tin	ASTM E2994: 2016	0.006 % to 0.1 %
90	CHEMICAL- METALS & ALLOYS	Titanium And Its Alloys	Vanadium	ASTM E2994: 2016	0.01 % to 5.0 %
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity	APHA 23rd Edition 2310 B: 2017	5 mg/L to 1000 mg/L
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	APHA 23rd Edition 2320 B: 2017	5 mg/L to 1000 mg/L





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part 44): 1993	5 mg/L to 30000 mg/L
94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	APHA 23rd Edition 5220 B: 2017	4 mg/L to 50000 mg/L
95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (Part 38): 1989	0.5 mg/L to 8 mg/L
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	рН	IS 3025 (Part 11): 1983	1 to 12
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	temperature	APHA 23rd Edition, 2550-B: 2017	0 C to 100 C
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solid	APHA 23rd Edition 2540 C: 2017	5 mg/L to 50000 mg/L
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solid	APHA 23rd Edition 2540 B: 2017	5 mg/L to 10000 mg/L
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA 23rd Edition 2540 D: 2017	5 mg/L to 10000 mg/L
101	CHEMICAL- WATER	Surface Water	Acidity	APHA 23rd Edition 2310 B: 2017	5 mg/L to 1000 mg/L
102	CHEMICAL- WATER	Surface Water	Alkalinity	APHA 23rd Edition 2320 B: 2017	5 mg/L to 1000 mg/L
103	CHEMICAL- WATER	Surface Water	Calcium	APHA 23rd Edition 3500 Ca B: 2017	2 mg/L to 200 mg/L





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104	CHEMICAL- WATER	Surface Water	Calcium Hardness	APHA 23rd Edition 3500 Ca B: 2017	2 mg/L to 400 mg/L
105	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Edition 3500 Mg B: 2017	2 mg/L to 100 mg/L
106	CHEMICAL- WATER	Surface Water	Magnesium Hardness	APHA 23rd Edition 3500 Mg B: 2017	2 mg/L to 200 mg/L
107	CHEMICAL- WATER	Surface water	рН	IS 3025 (Part 11): 1983	1 to 12
108	CHEMICAL- WATER	Surface Water	Temperature	APHA 23rd Edition 2550 B: 2017	0 C to 100 C
109	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23 rd 2540 C: 2017	5 mg/L to 50000 mg/L
110	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 23rd Edition 2340 C: 2017	5 mg/L to 1000 mg/L
111	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Edition 2540 B: 2017	5 mg/L to 10000 mg/L
112	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Edition 2540 D: 2017	5 mg/L to 10000 mg/L
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloy, Titanium And Its Alloys	Brinell Hardness	IS 1500 (Part-1): 2013	100 HBW to 400 HBW
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloy, Titanium And Its Alloys	Brinell Hardness	IS 1500-1: 2013	95.5 HBW (10/300) and HBW (5/750) to 653 HBW (10/300) and HBW (5/750)
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloy, Titanium And Its Alloys	Rockwell Hardness	IS 1586 (Part-1): 2018	20 HRBW to 100 HRBW





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116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloys, Titanium And Its Alloys	% Elongation	IS 1608: 2005	2 % to 80 %
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloys, Titanium And Its Alloys	% Reduction In Area	IS 1608: 2005	2 % to 80 %
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloys, Titanium And Its Alloys	Proof Stress (0.2 %)	IS 1608: 2005	1 kN to 1000 kN
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloys, Titanium And Its Alloys	Ultimate Tensile Strength	IS 1608: 2005	1 kN to 1000 kN
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium And Its Alloys, Titanium And Its Alloys	Yield Stress	IS 1608: 2005	1 kN to 1000 kN
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Brass	Bend	IS 1599: 2012	Qualitative((Mandrel Dia: 16, 20, 24, 30, 32, 36, 40, 48, 50, 60, 64, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160 mm))
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel And Low Alloy Steel, Stainless Steel, Alloy Steel	% Elongation	IS 1608: 2005	2 % to 80 %





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123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel And Low Alloy Steel, Stainless Steel, Alloy Steel	% Reduction In Area	IS 1608: 2005	2 % to 80 %
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Low Alloy Steel, Stainless steel, Alloy Steel	Brinell Hardness	IS 1500 (Part-1): 2013	100 HBW 10/3000 to 400 HBW 10/3000
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Low Alloy Steel, Stainless steel, Alloy Steel	Brinell Hardness	IS 1500 (part-1): 2013	100 HBW (10/3000) and HBW (5/750) to 400 HBW (10/3000) and HBW (5/750)
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Low Alloy Steel, Stainless steel, Alloy Steel	Rockwell Hardness	IS 1586 (Part-1): 2018	20 HRBW to 100 HRBW
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel And Low Alloy Steel, Stainless Steel, Alloy Steel, Cast Iron	Proof Stress (0.2 %)	IS 1608: 2005	1 kN to 1000 kN
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel And Low Alloy Steel, Stainless Steel, Alloy Steel, Cast Iron	Ultimate Tensile Strength	IS 1608: 2005	1 kN to 1000 kN
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel And Low Alloy Steel, Stainless Steel, Alloy Steel, Cast Iron	Yield Stress	IS 1608: 2005	1 kN to 1000 kN





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130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Iron	Rockwell Hardness	IS 1586 (Part-1): 2018	20 HRBW to 100 HRBW
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products	% Elongation	IS 1608: 2005	2 % to 80 %
132	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products	% Reduction In Area	IS 1608: 2005	2 % to 80 %
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products, Brass	Brinell Hardness	IS 1500 (Part-1): 2013	100 HBW to 400 HBW
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products, Brass	Proof Stress (0.2 %)	IS 1608: 2005	1 kN load to 1000 kN load
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products, Brass	Rockwell Hardness	IS 1586-1: 2018	20 HRBW to 100 HRBW
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products, Brass	Ultimate Tensile Strength	IS 1608: 2005	1 kN to 1000 kN





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137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper Materials, Alloys And Products, Brass	Yield Stress	IS 1608: 2005	1 kN to 1000 kN
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Titanium and its Alloys	Rockwell Hardness	IS 5686 (Part 1): 2018	20 HRC to 70 HRC
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Steel Bar	Rebend	IS 1786: 2008	Qualitative((Mandrel Dia.: 16, 20, 24, 30, 32, 36, 40, 48, 50, 60, 64, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 168, 175, 192, 196, 224 mm))
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Steel Bar, Round bar, Square Bar, Hax Bar	Bend	IS 1599: 2012, IS 1786: 2008: .	Qualitative((Mandrel Dia: 16, 20, 24, 30, 32, 36, 40, 48, 50, 60, 64, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160 mm))
141	MECHANICAL- METALLOGRAPHY TEST	Aluminium And Its Alloy, Titanium And Its Alloys, Copper Materials, Alloys And Products	Macro Etch	ASTM E-340: 2015	Qualitative((Magnificati on 1 - 10X))
142	MECHANICAL- METALLOGRAPHY TEST	Aluminium And Its Alloy, Titanium And Its Alloys, Copper Materials, Alloys And Products	Micro Structure Examination	ASTM E 407-07, ASM Hand book- Metallographic & Microstructure Vol. 9: (2004): 2015	Qualitative((Magnificati on 50X to 1000X))





(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name
YOR LAB, PLOT NO. 42/2, SURVEY NO. 83, 150 FEET RING ROAD (WEST), VAVDI,

RAJKOT, GUJARAT, INDIÁ

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-6313 Page No.: 14 / 14

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
143	MECHANICAL- METALLOGRAPHY TEST	Bearing Steel	Microscopic Examination (Carbide Structure)	SEP 1520: 1998	Qualitative((Magnificati on100X to1000X))
144	MECHANICAL- METALLOGRAPHY TEST	Carbon Steel and Low Alloy Steel	Case Depth	IS 6416: 2012	0.010 mm to 5.0 mm
145	MECHANICAL- METALLOGRAPHY TEST	Carbon Steel and Low alloy Steel, Bearing Steel	Decarburization Depth	IS 6396: 2012	0.01 mm to 1.00 mm
146	MECHANICAL- METALLOGRAPHY TEST	Carbon Steel and Low Alloy Steel, Stainless steel, Alloy Steel	Macro Etch	ASTM E-340: 2015	Qualitative((Magnificati on 1 - 5X))
147	MECHANICAL- METALLOGRAPHY TEST	Carbon Steel and Low Alloy Steel, Stainless steel, Alloy steel	Micro Structure Examination	ASTM E 407-07, ASM Hand book- Metallographic & Microstructure Vol. 9: (2004): 2015	Qualitative((Magnificati on 50X to 1000X))
148	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Graphite Structure: Type, Size and Distribution.	IS 7754: 2003	Qualitative((Magnificati on 100X))
149	MECHANICAL- METALLOGRAPHY TEST	Stainless steel, Carbon Steel and Low Alloy Steel	Grain Size (Comparison method)	ASTM E-112: 2013, Plate - I and II	Qualitative((Grain Size No. : 00 to 10, Magnification 100X))