SCOPE OF ACCREDITATION

Laboratory Name : ELECON ENGINEERING COMPANY LIMITED, MATERIALS TESTING LABORATORY, ANAND - SOJITRA ROAD, VALLABH VIDYANNAGAR, ANAND, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 02/12/2022 to 01/12/2024 **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	Stainless steel	Silicon	ASTM E1086
2	CHEMICAL- METALS & ALLOYS	Cast iron	Aluminium	IS 15338
3	CHEMICAL- METALS & ALLOYS	Cast iron	Carbon	IS15338
4	CHEMICAL- METALS & ALLOYS	Cast iron	Chromium	IS15338
5	CHEMICAL- METALS & ALLOYS	Cast iron	Copper	IS 15338
6	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	IS 15338:
7	CHEMICAL- METALS & ALLOYS	Cast iron	Molybdenum	IS 15338
8	CHEMICAL- METALS & ALLOYS	Cast iron	Nikel	IS 15338
9	CHEMICAL- METALS & ALLOYS	Cast iron	Phosphorus	IS 15338:
10	CHEMICAL- METALS & ALLOYS	Cast iron	Silicon	IS 15338
11	CHEMICAL- METALS & ALLOYS	Cast iron	Sulphur	IS15338
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
13	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Aluminium	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	chromium	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Copper	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Molybdenum	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Nickel	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Sulphur	ASTM E415

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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
19	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Titanium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Vanadium	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steels	Carbon	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steels	Manganese	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steels	Phosphorus	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low alloy steels	Silicon	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Aluminum	IS8811
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Carbon	IS:8811
27	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Chromium	IS8811
28	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Copper	IS8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Manganese	IS:8811
30	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Molybdenum	IS:8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Nickel	IS:8811
32	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Phosphorus	IS:8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Silicon	IS:8811
34	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Sulphur	IS:8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Titanium	IS:8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloys Steel	Vanadium	IS:8811
37	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E1086

SCOPE OF ACCREDITATION

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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
38	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS:9879
39	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E1086
40	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS:9879
41	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS:9879
43	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS:9879
45	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E1086
46	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS:9879
47	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E1086
48	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS:8811
49	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E1086
50	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS:9879
51	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS:9879
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E1086
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS:9879
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elogation	IS 1608-Part 1
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction in Area	IS 1608-Part 1

SCOPE OF ACCREDITATION

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Poof stress / Yield strength	IS 1608-Part 1
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell hardness Test	IS 1500 (Part 1)
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact V Notch test (+ 35°C to -60°C)	IS 1757 (Part 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact U Notch test (+ 35°C to -60°C)	IS1757(part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Proof test for Nuts	IS 1367 (Part 6)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell hardness test	IS 1586(Part 1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile strength	IS 1608-Part 1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test	IS 1501 (Part 1)
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test	IS 1501 (Part 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test	IS 1501 (Part 1)
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test	IS 1501 (Part 1)
68	MECHANICAL-METALLOGRAPHY TEST	Metallic materials	Case depth measurement by hardness method	IS 6416 (Cl No.5)
69	MECHANICAL-METALLOGRAPHY TEST	Metallic materials	Grain size measurement by comparison method	IS4748

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

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Validity 02/12/2022 to 01/12/2024 **Last Amended on** -

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70	MECHANICAL-METALLOGRAPHY TEST	Metallic materials	Inclusion rating	ASTM E45
71	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Microstructure	ASM hand book Volume 9