National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ISGEC HEAVY ENGINEERING LIMITED, RADAUR ROAD, YAMUNANAGAR, HARYANA, INDIA
Accreditation Standard ISO/IEC 17025:2017
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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
Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, pipe, forging, casting (Ferrous materials, alloys & products)	Drop weight test	ASTM E208
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, pipe, forging, casting, tubes (Ferrous materials, alloys & products)	Yeild Stress / 0.2% Proof Stress	ASTM A370
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Forging, Tube (Non-Ferrous materials, alloys & products)	Tensile Strength	ASTM E8/E8M
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	% Elongation	ASTM E8/E8M
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Brinell Hardness (HBW)	IS1500 Part-1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Charpy Impact (+50°C to -105°C and -196°C)	ASME Sec VIII Div.1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Charpy Impact (+50°C to -105°C and -196°C)	ASTM A370
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Rockwel Hardness (HRC)	ASTM E18
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Rockwel Hardness (HRC)	IS 1586 part-1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, pipe, tube, forging, casting (Ferrous materials, alloys & products)	Tensile Strength	ASTM E8/E8M
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Vicker Hardness (HV10)	IS1501 part-1
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Ferrous materials, alloys & products)	Yeild Stress / 0.2% Proof Stress	ASTM E8/E8M
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Non-Ferrous materials, alloys & products)	Brinell Hardness (HBW)	IS 1500 Part-1

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Non-Ferrous materials, alloys & products)	Charpy Impact (+50°C to -105°C and -196°C)	ASME Sec VIII Div.1
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Non-Ferrous materials, alloys & products)	Vicker Hardness (HV10)	IS 1501 part-1
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Welds & Welded test specimens)	Brinell Hardness (HBW)	IS1500 part-1
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Welds & Welded test specimens)	Charpy Impact (+50°C to -105°C and -196°C)	ASTM A370
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Welds & Welded test specimens)	Charpy Impact (+50°C to-105°C and -196°C)	ASME SEC VIII Div. 1
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Welds & Welded test specimens)	Rockwel hardness (HRC)	ASTM E18
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, Casting (Welds & Welded test specimens)	Vicker Hardness (HV10)	IS 1501 part-1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, Pipe, Tube, Forging, casting (Welds & Welded test specimens)	Yeild Stress / 0.2% Proof Stress	ASTM A370
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate, pipe,tube,forging,casting (Welds & Welded test specimens)	Tensile Strength	IBR Rules
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,forging,casting (Welds & Welded test specimens)	Drop weight	ASTM E208
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging, casting (Ferrous materials, alloys & products)	% Elongation	ASTM A370
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	% Elongation	IBR Rule
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	% Reduction Area	ASTM A370
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	% Reduction Area	ASTM E8/E8M

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28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	% Reduction Area	IBR Rule
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Bend Test	IS1599
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Bend Test	ASTM E 290
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Bend Test	IBR Rule
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Brinell Hardness	ASTM E10
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Charpy Impact test (+50°C to -105°C and -196°C)	ASTM E23
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Tensile Strength	ASTM A370
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Tensile Strength	IBR Rule
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Vicker Hardness (HV10)	ASTM E92
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Yeild Stress / 0.2% Proof Stress	IBR Rule
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	% Elongation	ASTM E8/E8M
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	% Elongation	IBR Rule
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	% Reduction Area	ASTM E8/E8M
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	% Reduction Area	IBR Rule

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42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Bend test	IBR Rule
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Bend test	IS 1599
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Brinell Hardness (HBW)	ASTM E10
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Charpy Impact test (+50°C to -105°C and -196°C)	ASTM E23
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Tensile Strength	IBR Rule
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Vicker Hardness (HV10)	ASTM E92
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	plate,pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Yeild Stress / 0.2% Proof Stress	ASTM E8/E8M
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,Pipe,tube,forging,casting (Non-Ferrous materials, alloys & products)	Yeild Stress / 0.2% Proof Stress	IBR Rule
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Elongation	ASME Sec IX
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Elongation	ASTM A370
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Elongation	IBR Rule
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Reduction Area	ASME Sec IX
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Reduction Area	ASTM A370
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	% Reduction Area	IBR Rule

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Bend Test	IBR Rule
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Bend Test	ASME Sec IX
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Bend Test (Face, Root, Side bend)	ASTM E 190
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Brinell Hardness (HBW)	ASTM E10
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Charpy Impact test (+50°C to -105°C and -196°C)	ASTM E23
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Tensile Strength	ASME Sec IX
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Tensile Strength	ASTM A370
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Vicker Hardness (HV10)	ASTM E92
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Yeild Stress / 0.2% Proof Stress	ASME Sec IX
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plate,pipe,tube,forging,casting (Welds & Welded test specimens)	Yeild Stress / 0.2% Proof Stress	IBR Rule
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube to tube sheet mock up (Ferrous materials, alloys & products)	Pull out test	ASME Sec VIII Div.1
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube to tube sheet mock up (Non-Ferrous materials, alloys & products)	Pull out test	ASME Sec VIII Div.1
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tube to tube sheet mock up (Welds & Welded test specimens)	Pull out test	ASME Sec VIII Div.1
69	MECHANICAL-METALLOGRAPHY TEST	Plate,pipe,forging,tube,casting (Welds & welded test specimens)	Macro etch test	ASME Sec IX

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70	MECHANICAL-METALLOGRAPHY TEST	Plate,pipe,tube,forging,casting (Ferrous materials, alloys & products)	Macro etch test	ASTM E340
71	MECHANICAL-METALLOGRAPHY TEST	Plate,pipe,tube,forging,casting (Non-Ferrous metals, alloys & products)	Macro etch test	ASTM E340
72	MECHANICAL-METALLOGRAPHY TEST	Plate,pipe,tube,forging,casting (Welds & welded test specimens)	Macro etch test	ASTM E340