National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ARKKAYS METALLURGICAL LABORATORY, ARKKAYS NATIONAL ENGINEERING & FOUNDRY COMPANY, IRUNGATTUKOTTAI, B-73 SIPCOT INDUSTRIAL PARK,, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11361 **Page No** 1 of 5

Validity 07/02/2023 to 06/02/2025 **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	Plain Carbon & Low Alloy Steel	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Aluminium	IS 8811
3	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Boron	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Boron	IS 8811
5	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 8811
7	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	IS 8811
9	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Cobalt	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Cobalt	IS 8811
11	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	IS 8811
13	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Lead	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Lead	IS 8811
15	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	IS 8811
17	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name : ARKKAYS METALLURGICAL LABORATORY, ARKKAYS NATIONAL ENGINEERING & FOUNDRY COMPANY, IRUNGATTUKOTTAI, B-73 SIPCOT INDUSTRIAL PARK,, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11361 **Page No** 2 of 5

Validity 07/02/2023 to 06/02/2025 **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
19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	IS 8811
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Niobium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Niobium	IS 8811
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	IS 8811
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	IS 8811
27	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	IS 8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM E1086
32	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	ASTM E1086
33	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM E1086
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086

SCOPE OF ACCREDITATION

Laboratory Name : ARKKAYS METALLURGICAL LABORATORY, ARKKAYS NATIONAL ENGINEERING & FOUNDRY COMPANY, IRUNGATTUKOTTAI, B-73 SIPCOT INDUSTRIAL PARK,, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11361 **Page No** 3 of 5

Validity 07/02/2023 to 06/02/2025 **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
38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	ASTM E1086
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM E1086
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM E1086
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished (bars,rods,wires) and finished products	Brinell hardness Test 5/750 HBW	IS 1500 (Part 1)
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished (bars,rods,wires) and finished products	Rockwell Hardness Test HRC	ASTM A370
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	% Elongation	ASTM A370
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	% Reduction in Area	ASTM A370
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	% Reduction in area	IS 1608 (Part 1)
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Brinell Hardness Test 10/3000 HBW	ASTM A370
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Brinell Hardness Test 10/3000 HBW	IS 1500 (Part 1)
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Brinell Hardness Test 5/750 HBW	ASTM A370

SCOPE OF ACCREDITATION

Laboratory Name : ARKKAYS METALLURGICAL LABORATORY, ARKKAYS NATIONAL ENGINEERING & FOUNDRY COMPANY, IRUNGATTUKOTTAI, B-73 SIPCOT INDUSTRIAL PARK,, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11361 **Page No** 4 of 5

Validity 07/02/2023 to 06/02/2025 **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
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Rockwell Hardness Test (HRB)	IS 1586 (Part 1)
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Rockwell Hardness Test HRB	ASTM A370
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Rockwell Hardness Test HRC	IS 1586 (Part 1)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Tensile Strength	ASTM A370
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Tensile Strength	IS 1608 (Part 1)
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Tensile Test % Elongation	IS 1608 (Part 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Vickers Hardness Test HV 30	IS 1501 (Part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Vickers Hardness Test HV30	ASTM E92
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Yield Strength	ASTM A370
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous alloy semi finished(bars,rods,wires) and finished products	Yield Strength	IS 1608 (Part 1)
64	MECHANICAL-METALLOGRAPHY TEST	Steel Product	Average Grain Size	IS 4748
65	MECHANICAL-METALLOGRAPHY TEST	Steel Product	Inclusion Rating	ASTM E45
66	MECHANICAL-METALLOGRAPHY TEST	Steel Product	Inclusion Rating	IS 4163
67	MECHANICAL-METALLOGRAPHY TEST	Steel Product	Macrostructural Analysis	IS 13015
68	MECHANICAL-METALLOGRAPHY TEST	Steel Product	Micro Structural Analysis	ASM Volume 9

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ARKKAYS METALLURGICAL LABORATORY, ARKKAYS NATIONAL ENGINEERING & FOUNDRY COMPANY, IRUNGATTUKOTTAI, B-73 SIPCOT INDUSTRIAL PARK,, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11361 **Page No** 5 of 5

Validity 07/02/2023 to 06/02/2025 **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
69	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Average Grain Size	ASTM E112
70	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Banding	ASTM E1268
71	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macrostructural Analysis	ASTM E381