National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 1 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized (Zinc coated steel wire)	Mass of Zinc Coating	IS 6745 Cl.5 (Stripping Method)
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized (Zinc Coated Steel Wire)	Mass of Zinc Coating	ISO 1460 cl.7 stripping method
3	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	AS 1391
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	EN 12385-1:2002+A1
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	IS 1608 (Part 1)
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	IS 6594
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	IS 9282(R2008)
8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	ISO 2408
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	ISO 3108
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Breaking Load	ISO 6892-1
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	API Specification 9A
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	AS 3569
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	EN 12385-1:2002+A1

SCOPE OF ACCREDITATION

Laboratory Name : USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 2 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	IS 13917 Amd.1
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	IS 6594
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	IS 9282
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	ISO 10425
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	ISO 2232
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Diameter	ISO 2408
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Elongation %	IS 6594
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Lay Length	IS 9282
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Lay Length	ISO 2408
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope	Proof load	IS 2762
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	AS/NZS 4672 (Part 1 & 2)
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	ASTM A1061/1061M
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	BS 5896
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	IS 14268

SCOPE OF ACCREDITATION

Laboratory Name : USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 3 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	IS 6006
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	IS 6594
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Breaking Load	PrEN 10138-3
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Core Vs. Outer Wire Difference (%)	AS/NZS 4672 (Part 1 & 2)
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Core Vs. Outer Wire Difference (%)	ASTM A416
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Core Vs. Outer Wire Difference (%)	BS 5896
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Core Vs. Outer Wire Difference (%)	PrEN 10138-3
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Cross Sectional Area	AS/NZS 4672 (Part 1 & 2)
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Cross Sectional Area	ASTM A416
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Cross sectional Area	PrEN 10138-3
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	AS 2841
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	AS/NZS 4672 (Part 1 & 2)
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	ASTM A416
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	BS 5896

SCOPE OF ACCREDITATION

Laboratory Name :	USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5016	**Page No**	4 of 8
Validity	12/02/2022 to 11/02/2024	**Last Amended on**	03/04/2022

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
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	IS 14268
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	IS 6594
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Diameter	PrEN 10138-3
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Elongation %	AS/NZS 4672 (Part 1 & 2)
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Elongation %	ASTM A1061/1061M
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Elongation %	IS 14268
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Elongation %	IS 6006
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	AS 2841
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	AS/NZS 4672(Part 1 & 2)
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	ASTM A416
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	BS 5896
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	IS 14268
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	IS 6006
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	IS 9282

SCOPE OF ACCREDITATION

Laboratory Name : USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 5 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Lay Length	Pr EN 10138-3
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load at 1% Elongation	AS/NZS 4672(Part 1& 2)
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load at 1% Elongation	ASTM A1061/1061M
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load at 1% Elongation	IS 14268
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load at 1% Elongation	IS 6006
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load at 1% Elongation	PrEN 10138-3
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	AS/NZS 4672 (Part 1 & 2)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	ASTM A1061/1061M
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	BS 5896
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	IS 14268
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	IS 6006
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Load Relaxation	PrEN 10138-3
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Modulus of Elasticity (MOE)	AS/NZS 4672 (Part 1 & 2)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Modulus of Elasticity (MOE)	ASTM A1061/1061M

SCOPE OF ACCREDITATION

Laboratory Name : USHA MARTIN LIMITED (WIRE & WIRE ROPES DIVISION), TATISILWAI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 6 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Modulus of Elasticity (MOE)	IS 2854
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Modulus of Elasticity (MOE)	ISO 15630-3
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.1%	AS/NZS 4672(Part 1 & 2)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.1%	BS 5896
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof load 0.1%	IS 14268
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.1%	Pr.EN 10138-3
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.2%	AS/NZS 4672 (Part 1& 2)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.2%	ASTM A1061/1061M
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.2%	IS 14268
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Tensile Proof Load 0.2%	IS 6006
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Weight per Meter	BS 5896
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Weight per Meter	IS 6006
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand	Weight per Meter	Pr EN 10138-3
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	BS 5896

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 7 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	EN 10264-1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	IS 1608-Part1
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	IS 9282
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	ISO 2232
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Breaking Load	ISO 6892-1
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Diameter	EN 10264-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Diameter	IS 6006
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Diameter	IS 9282
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Diameter	ISO 2232
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Diameter	ISO 6892-1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Elongation %	BS 5896
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Elongation %	IS 1608-Part 1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Elongation %	IS 9282
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Elongation %	ISO 6892-1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5016 **Page No** 8 of 8

Validity 12/02/2022 to 11/02/2024 **Last Amended on** 03/04/2022

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98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Reverse Bend	BS 5896
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Reverse Bend	EN 10218-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Reverse Bend	IS 1716
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Reverse Bend	ISO 2232
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Reverse Bend	ISO 7801
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Torsion	BS EN 10218-1
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Torsion	IS 1717
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Torsion	ISO 2232
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire	Torsion	ISO 7800