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 6

Validity 12/02/2019 to 11/02/2021* **Last Amended on** -

*The validity is extended for one year up to 11.02.2022

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
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized (Zinc Coated Steel Wire)	Mass of Zinc Coating	ISO 1460
3	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	EN 12385-1
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	IS 1608 - Part 1
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	IS 6594
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	IS 9282(R2008)
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	ISO 2408
8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	ISO 3108
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Breaking Load	ISO 6892
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Diameter	EN 12385-1
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Diameter	IS 6594
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Diameter	IS 9282(R2008)
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Diameter	ISO 2232

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Diameter	ISO 2408
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Elongation %	IS 6594
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Lay Length	IS 9282
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rope (3.00 to 142.00mm of diameter)	Lay Length	ISO 2408
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Breaking Load	AS/NZS 4672 (Part 1 & 2)
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Breaking Load	BS 5896
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Breaking Load	IS 14268(R2003)
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Breaking Load	IS 6594
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Breaking Load	PrEN 10138-3
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Core Vs. Outer Wire Difference (%)	AS/NZS 4672 (Part 1 & 2)
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Core Vs. Outer Wire Difference (%)	BS 5896
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Core Vs. Outer Wire Difference (%)	PrEN 10138-3
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Diameter	AS/NZS 4672 (Part 1 & 2)

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27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Diameter	BS 5896
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Diameter	IS 14268
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Diameter	IS 6594
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Diameter	PrEN 10138-3
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Elongation %	AS/NZS 4672 (Part 1 & 2)
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Elongation %	IS 14268
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Lay Length	AS/NZS 4672(Part 1 & 2)
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Lay Length	BS 5896
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Lay Length	IS 14268
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Lay Length	IS 9282
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Load at 1% Elongation	AS/NZS 4672(Part 1& 2)
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Load at 1% Elongation	IS 14268
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Load at 1% Elongation	PrEN 10138-3

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40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Metallic Area	AS/NZS 4672 (Part 1 & 2)
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Metallic Area	PrEN 10138-3
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Modulus of Elasticity (MOE)	AS/NZS 4672 (Part 1 & 2)
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Modulus of Elasticity (MOE)	IS 2854
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Relaxation	AS/NZS 4672 (Part 1 & 2)
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Relaxation	BS 5896
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Relaxation	IS 14268
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Relaxation	PrEN 10138-3
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof Load 0.1%	AS/NZS 4672(Part 1 & 2)
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof Load 0.1%	BS 5896
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof load 0.1%	IS 14268
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof Load 0.1%	Pr.EN 10138-3
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof Load 0.2%	AS/NZS 4672 (Part 1& 2)

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53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Strand (6.00 to 21.00mm of diameter)	Tensile Proof Load 0.2%	IS 14268
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00 mm of diameter)	Breaking Load	IS 1608-Part1
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of diameter)	Breaking Load	BS 5896
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of diameter)	Breaking Load	EN 10264-1
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of diameter)	Breaking Load	IS 9282
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of diameter)	Breaking Load	ISO 2232
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Breaking Load	ISO 6892-1
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Diameter	EN 10264-1
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Diameter	IS 1608-Part 1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Diameter	IS 9282
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Diameter	ISO 6892-1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Elongation %	BS 5896
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Elongation %	IS 1608-Part 1

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66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Elongation %	IS 9282(R2008)
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Elongation %	ISO 6892-1
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Reverse Bend	BS 5896
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Reverse Bend	EN 10218-1
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Reverse Bend	IS 1716
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Reverse Bend	ISO 2232
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Reverse Bend	ISO 7801
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Torsion	EN 10218-1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Torsion	IS 1717
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Torsion	ISO 2232
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire (1.00 to 5.00mm of Diameter)	Torsion	ISO 7800