



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Usha Martin Limited (Wire & Wire Ropes Division), Tatisilwai, Ranchi, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5016 (in lieu of T-2434, T-2435)

Page 1 of 3

Validity 12.02.2017 to 11.02.2019

Last Amended on 27.02.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

CHEMICAL TESTING

I.	METALLIC COATINGS & TREATMENT SOLUTION			
1.	Galvanized (Zinc Coated) Steel Wire	Mass of Zinc Coating	IS: 6745: 1972 RA 2011 (Stripping Method)	0.01 g to 220 g

Amit Kumar
Convenor

N. Venkateswaran
Program Director



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Usha Martin Limited (Wire & Wire Ropes Division), Tatisilwai, Ranchi, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5016 (in lieu of T-2434, T-2435)

Page 2 of 3

Validity 12.02.2017 to 11.02.2019

Last Amended on 27.02.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

I. MECHANICAL PROPERTIES OF METALS				
1.	Steel Wire (1.00 to 5.00mm of diameter)	Breaking load	IS:1608:2005 (RA 2010)	0.5 kN to 50 kN
		Elongation %		0 to 15%
		Diameter		0.1 mm to 6.00 mm
		Torsion	IS :1717 : 2012	0.1 mm to 6.00 mm 1 No. to 100 Nos.
		Reverse Bend	IS :1716:1985 (RA 2006)	0.1mm to 6.00 mm 1 No. to 100 Nos.
2.	Steel Strand (6.00 to 21.00 mm of diameter)	Tensile Proof load 0.1%	IS :6594:2001	0 to 600 kN
		Tensile Proof load 0.2%	IS : 1608 : 2005 (RA 2010)	0 to 600 kN
		Load at 1% elongation	IS:14268:1995(RA 2003)	0 to 600 kN
		Breaking load	AS/NZS:4672(Pt 1&2):2007	0 to 600 kN
		Elongation %	BS :5896:2012	0 to 15%
		Modulus of Elasticity (MOE)	PrEN :10138- 3.2:2005	0 to 300 kN/mm ²
		Core Vs. Outer wire difference (%)	IS :2854:1990 (RA 2006)	0 to 5 %
		Metallic Area	IS :9282:2002 (RA 2008)	0 to 350 mm ²
3.	Steel Strand (6.00 to 21.00 mm of diameter)	Relaxation	IS:14268:1995(RA 2003) AS/NZS:4672 (Pt-1& 2): 2007	0 to 500 kN
		Diameter	IS :6594:2001	6.00 mm to 21.0 mm
		Lay Length	IS :2363:1981(RA 2001) IS :6594:2001	1 mm to 600 mm
4.	Steel Rope (3.00 to 142.00 mm of diameter)	Breaking load	IS 6594:2001	0 to 8500 kN
		Elongation %	IS:14268:1995(RA 2003) BS :5896:2012 PrEN 10138- 3.2:2005 IS :2854:1990 (RA 2006) IS :9282:2002 (RA 2008)	0 to 15%

Amit Kumar

Amit Kumar
Convenor

N. Venkateswaran

N. Venkateswaran
Program Director



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Usha Martin Limited (Wire & Wire Ropes Division), Tatisilwai, Ranchi, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5016 (in lieu of T-2434, T-2435)

Page 3 of 3

Validity 12.02.2017 to 11.02.2019

Last Amended on 27.02.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Diameter	IS :6594:2001	3.00 mm to 160 mm
		Lay Length	IS :2363:1981(RA 2001) IS :6594:2001	1 mm to 1500 mm

Amit Kumar
Convenor

N. Venkateswaran
Program Director