



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name RAVI LABS, H.NO.5-100/2, PLOT NO.706, ROAD NO.6, BUDDANAGAR COLONY, HYDERABAD, MEDCHAL, TELANGANA , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8259 Page No. : 1 / 4

Validity 03/01/2019 to 02/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	% Elongation	IS 1608 part1: 2018	1 % to 80 %
2	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	% Reduction of area	IS 1608 part1: 2018	1 % to 80 %
3	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	0.2% Proof stress	IS 1608 part1: 2018	200 MPa to 1000 MPa
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Bend Test	IS 1599: 2012	Qualitative(20 mm to 320 mm Mandal dia)
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Brinell Hardness Test	IS 1500 (Part-1): 2013	30 HBW 2.5/187.5 to 650 HBW 2.5/187.5
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Rockwell Hardness Test	IS 1586 (Part-1): 2012	20 HRC to 70 HRC
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Vickers Hardness Test	IS 1501 (Part-1): 2013	10 HV5 to 1000 HV5



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8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Yield Stress	IS 1608 part1: 2018	200 MPa to 1000 MPa
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Materials	Young's Modulus	ASTM E111: 2017	50 GPa to 300 GPa
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous/Non Ferrous Materials	Tensile Strength	IS 1608-Part 1: 2018	300 MPa to 1000 MPa
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	% Elongation	IS 1608 part 1: 2018	1 % to 80 %
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Mass per meter	IS 1786: 2008	20 kg to 10 kg
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Rebend Test	IS 1786: 2008	Qualitative(20mm to 320mm Mandrel dia)



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14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Tensile Strength	IS 1608 part1: 2018	0.05 kN to 1000 kN
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Yield Stress	IS 1608 part 1: 2018	300 N/mm <sup>2</sup> to 900 N/mm <sup>2</sup>
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength Deformed Steel Bars and Wires for Concrete Reinforcement (TMT Bars)	Bend test	IS 1786: 2008	Qualitative(20mm to 320mm Mandal dia)
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HT Stand Wires	0.2% Proof Load	IS 1608 part 1: 2018	130 kN to 250 kN
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HT Stand Wires	Breaking Strength	IS 1608 part 1: 2018	150 kN to 300 kN
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials - Sheet and Strip	Erichsen Cupping Index	IS 10175: 2012	0.2 mm to 2.0 mm
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	% Elongation	IS 1608 part 1: 2018	5 % to 30 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Tensile Strength	IS 1608 part 1: 2018	400 N/mm <sup>2</sup> to 1000 N/mm <sup>2</sup>