



**National Accreditation Board for  
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



**CERTIFICATE OF ACCREDITATION**

**MECHANICAL LABORATORY,  
JINDAL STAINLESS (HISAR) LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Hot Rolling Division, O.P. Jindal Marg, Hisar, Haryana

in the field of

**TESTING**

**Certificate Number** TC-7074

**Issue Date** 27/03/2018

**Valid Until** 26/03/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Signed for and on behalf of NABL

N. Venkateswaran  
Program Director



89076970100030001112

Anil Relia  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

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## SCOPE OF ACCREDITATION

**Laboratory** Mechanical Laboratory, Jindal Stainless (Hisar) Limited,  
Hot Rolling Division, O.P. Jindal Marg, Hisar, Haryana

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7074

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**Validity** 27.03.2018 to 26.03.2020

Last Amended on --

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

I. MECHANICAL PROPERTIES OF METALS				
1.	Ferrous Material Alloys & Products	Tensile Strength	IS 1608: 2005 (RA 2017)	100 MPa to 2300 MPa
		0.2% proof stress	ASTM A 370: 2017	100 MPa to 2200 MPa
		Yield strength	ASTM E 8: 2016a	
		% Elongation		0.4 % to 80.0 %
		% Reduction area		5.0 % to 80.0 %
		Charpy impact test V Notch (At ambient temp. & up to (-)196 deg. C)	IS 1757 (Part 1): 2014 ASTM A 370-2017 ISO 148-1-2016 ASTM E 23 – 16b	2 J to 240 J
		Rockwell Hardness	IS 1586 (Part 1): 2012 ASTM A 370: 2017	60 HRBW to 100 HRBW 20 HRC to 70 HRC
Bend	ASTM A 370: 2017 ASTM A 480: 2017 ASTM E 290: 2014 IS 1599: 2012 (RA 2017)	Qualitative (Mandrel diameter in mm: 6, 7, 8, 9, 9.5, 10, 12, 14, 16, 18, 20, 24, 25)		
II. METALLOGRAPHY TEST				
1.	Austenitic stainless steel	Estimation of grain size by Microscopic comparison method	ASTM E-112: 2013 IS 4748: 2009	ASTM No. 1.0 to 10.0 at 100 X
		Non metallic Inclusion Rating -Method A & E	ASTM E-45-2013 IS 4163: 2004	A,B,C,D (Thin & Thick) 0.5 to 3.0 at 100X
		Intergranular test Practice A Practice E	ASTM A 262: 2015 IS 10461 (Part 2): 1994 (RA 2007)	Qualitative 250X 500X 1T/180° Etching area upto 190mm <sup>2</sup>
		Intergranular corrosion Method A	ISO 3651-2-1998	1T/180° (Qualitative)

Sreeram Pinnamaraju  
Convenor

N. Venkateswaran  
Program Director