


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>4199</p> <p>Accredited to ISO/IEC 17025:2017</p>	<b>Induction Pipe Bending UK Limited</b> <b>Trading as IPB Mechanical Testing</b>	
	<b>Issue No: 022    Issue date: 11 February 2020</b>	
	<b>11 Sedling Road</b> <b>Wear Industrial Estate</b> <b>Washington</b> <b>Tyne &amp; Wear</b> <b>NE38 9BZ</b>	<b>Contact: Mr I Dawson</b> <b>Tel: +44 (0)1914 178066</b> <b>Fax: +44 (0)1914 178078</b> <b>E-Mail: idawson@ipbtesting.co.uk</b> <b>Website: www.ipbtesting.co.uk</b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>ENGINEERING MATERIALS, MACHINERY, STRUCTURES &amp; PRODUCTS</b>  <b>METALS, ALLOYS and METAL PRODUCTS</b>  Carbon steel, stainless steel, duplex stainless steel	<u>Mechanical Tests</u>  Tensile - ambient temperature (forces from 0.25kN to 500kN)  Hardness: Brinell HBW 10/3000  Vickers (HV10)  Charpy Impact (V notch) (-196°C to ambient) including lateral expansion and percentage shear  Izod (ambient)  Bend	BS EN ISO 6892-1:2016 Method A ASTM A370-18 ASTM E8/E8M-16a Method B API 5L (45 <sup>th</sup> Edition) 2012  BS EN ISO 6506-1:2014 ASTM A370-18 ASTM E10-18  BS EN ISO 6507-1:2018  BS EN ISO 148-1:2016 ASTM A370-18 ASTM E23-18  BS 131-1:1961(2007)  BS EN ISO 7438:2016
Metals & weldments - corrosion Stainless steels	<u>Corrosion Tests</u>  Pitting corrosion  Intergranular corrosion	ASTM G48-11(2015) (Method A)  ASTM A262-15 methods C & E ASTM G28-02(2015) method A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Chemical Tests</u>	
Low Alloy and Carbon Steel	Elemental analysis C, Mn, Si, S, P, Cu, Ni, Cr, Mo, Sn, Nb, V, Al, Ti, B, Zr, Pb, W, Co, Mg	Documented In-House Method IPBMT/ITP-28 using spark source Optical Emission Spectroscopy
Nickel Alloys	Elemental analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, Nb, Ti, V, Fe.	Documented In-House Method IPBMT/ITP-28 using spark source Optical Emission Spectroscopy
Stainless Steels and Duplex Stainless Steels	Elemental analysis C, Mn, Si, S, P, Cu, Ni, Cr, Mo, V, Ti, Al Nb	Documented In-House Method IPBMT/ITP-28 using spark source Optical Emission Spectroscopy
	<u>Metallurgical Tests</u>	
Metals & weldments - metallurgical Duplex stainless steels	Phase analysis (Ferrite count)	ASTM E562-11
	Grain size - comparative method	ASTM E112-13
	Detecting detrimental Intermetallic phases (Duplex stainless steels)	ASTM A923-14 (Method A)
	<u>Mechanical and Metallurgical Tests</u>	
Weldments, Steels and Aluminium Alloys	Test designated in specified welding codes, excluding non-destructive testing, as detailed below -  Bend, Fracture, Hardness, Impact, Tensile, Macro and Micro-examination	BS EN 287:Part 1:2011 (WSuperseeded) BS EN ISO 9606-1:2017 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017 BS EN ISO 15614-2:2005 BS EN ISO 17639:2013 BS EN ISO 4136:2012 BS EN ISO 5173:2010+A1(2011) BS EN ISO 9015-1:2011 BS EN ISO 9016-1:2012 BS EN ISO 9017:2018 AWS D1.1/D1.1M:2015 ASME IX:2017
END		