



# BIRASINI TEST HOUSE

Govt. Approved / ISO IEC : 17025 : 2017 / ISO : 9001 : 2015  
ISO : 14001 : 2015 & OHSAS 45001 : 2018 Certified Laboratory  
(NABL Accredited Testing Laboratory)



## TEST REPORT

<b>Issued To,</b> M/S Indus Tubes Ltd. G.T. Road, Chhaprola, Distt. G.B. Nagar, (U.P.)	<b>Report No.</b> : 50-05032024-03 <b>Date of Receiving</b> : 05/03/2024 <b>Date of Starting</b> : 05/03/2024 <b>Date of Completion</b> : 09/03/2024 <b>Date of Reporting</b> : 09/03/2024 <b>Submitted By</b> : Customer
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**Sample Description** : 150mm NB Heavy, ERW, Calvanized Screwed & Socketed Tube

**Batch No.** : 10

Specification As Per IS: 1239 (Part-I) 2004

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S.No.	Test Parameters	Unit	Method	Result	Limit
1.	Chemical Test Cl- 6.2 & Table-2				
	Carbon	%	IS: 228 Part-1	0.082	0.14 Max
	Manganese	%	IS: 228 Part- 2	0.29	0.64 Max
	Sulphur	%	IS: 228 Part-9	0.012	0.045 Max
	Phosphorus	%	IS: 228 Part-3	0.010	0.045 Max
2.	Mechanical Test				
	Tensile Strength Cl - 14.1	MPa	IS:1608 (Part-1)	391	320 Min
	Elongation (GL=5.65√S <sub>0</sub> ) Cl - 14.1.1	%	IS:1608 (Part-1)	29.5	20 Min
3.	Flattening Test Cl-14.3	-	IS 2328-2018	Satisfactory	A ring not less than 40mm in length shall be flattened cold between parallel plates with the weld, if any at 90° (point of maximum bending). No opening shall occur by fracture in the weld area until the distance between the plates is less than 75% of the original outside diameter of the tube and no cracks or breaks in the metal elsewhere than in the weld shall occur until the distance between the plates is less than 60% of the original outside diameter.

\*The above test report generated on the basis of sample given by the customer itself.

Authorised Signatory

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Laboratory Office: 4/31 B, Site-IV, Industrial Area, Sahibabad, Ghaziabad, U.P. - 201010  
Ph:- 0120-4526493, E-mail : birasinitesthouse1@gmail.com, Website : www.birasinitesthouse.in



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## TEST REPORT

Report No. : 50-05032024-03

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S.No.	Test Parameters	Unit	Method	Result	Limit
4.	Dimensions				
	Outside diameter Cl-8 Table-4	mm	IS:1239(P-1)	165.4	163.9 to 166.5
	Thickness Cl-9.1 (a-1)& Table-4	mm	IS:1239(P-1)	5.20	5.40 + Not Ltd. - 10%
	Mass of Screwed & Socketed Tube Cl-9.1 (b-2) & Table -4	Kg/m	IS:1239(P-1)	20.54	21.3 ± 10%
	Height of Internal Weld Fin Cl 6.5	-	IS:1239(P-1)	Within the limit	Shall not exceed 60% of the wall thickness
5.	Galvanizing Tests, Cl-12.1				
	Mass of zinc	gm/m <sup>2</sup>	IS: 4736/IS: 6745	492	360 Min
	Uniformity	-	IS: 4736/IS: 2633	Passes the test	No red deposit of copper on base metal
	Adhesion	-	IS: 4736/IS: 2629	Passes the test	No develop any crack in coating
6.	Threads Cl 10.1	-	IS: 554	Satisfactory	Conforming to IS: 554
7.	Socket				
	Outside Diameter Cl-8.6 Table-6	mm	IS:1239(P-2)	178.4	178.0 Min.
	Length Cl-8.6 Table-6	mm	IS:1239(P-2)	97.2	96.0 Min.
	Drift Expansion Cl-11.2.1 Table-29	-	IS:1239(P-2)	Passes the test	0.5% Min.
8.	Marking Cl-17	-	IS:1239(P-1)	OK	Mfr's Name ITL Indus IS:1239(Pt-I), Heavy & ISI logo with CM/L No.1899385
9.	Workmanship Cl -15	-	IS:1239-(P-1)	OK	Pipe Shall be cleanly finish and reasonable free from injurious defects the end shall be free from sharp edge and burrs of pipe. Tube shall be reasonably straight.

Remarks: Sample meets the requirement to IS 1239 (Part-I)-2004 with respect to above test.

\*\*\* End of Report\*\*\*

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## TEST REPORT

Issued To,  
M/S Indus Tubes Ltd.  
G.T. Road, Chhaprola,  
Distt-GB. Nagar (U.P.)

Report No. 50-10072021-18  
Report Date 13/07/2021  
Sample Received On 10/07/2021  
Analysis Date 10/07/2021 to 13/07/2021  
Report Prepared On 13/07/2021  
Submitted By Customer

Sample Description : 323.9mm OD x 9.5mm, EW/HFW, Black Bevel End Pipe

Specification As Per IS/ISO3183-2007, Gr. L-210, PSL-1

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S. No	Test Parameters	Unit	Method	Result	Limit
1.	Chemical Test Cl- 9.2 & Table-4				
	Carbon	%	ASTM A 751	0.160	0.21 Max.
	Manganese	%	ASTM A 751	0.830	0.90 Max.
	Sulphur	%	ASTM A 751	0.017	0.030 Max
	Phosphorus	%	ASTM A 751	0.014	0.030 Max.
2.	Mechanical Test CL -9.3.1 & Table-6				
	Tensile Strength	MPa	ASTM A 370	407	335 Min.
	Yield Strength	MPa		302	210 Min.
	Elongation % (GL=5.65VS <sub>0</sub> )	MPa		39.5	34 Min
	Weld Tensile Strength	MPA		410	335 Min.
3.	Flattening Test, Cl-9.2.1	%	ASTM A 370	Satisfactory	A ring not less than 60mm in length shall be flattened cold between parallel plates with the weld at 0° & 90°. No opening of the weld before the distance between the plates is less than 50% of the original outside diameter and no cracks or breaks other than in the weld before the distance between the plates is less than 33% of the original outside diameter.

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## TEST REPORT

Report No. 50-10072021-18

Specification As Per IS/ISO3183-2007, Gr. L-210, PSL-1

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S. No	Test Parameters	Unit	Method	Result	Limit
4.	Dimensions Cl-9.11.1 to 9.11.3 ,9.14.1				
	Outside diameter	mm	IS/ISO3183	323.6	323.9 ± 0.75%
	Thickness	mm	IS/ISO3183	9.45	9.5 ± 10%
	Ovality	mm	IS/ISO3183	0.90	4.86 (0.015xOD Max.)
	Mass of Plain tube	Kg/m	IS/ISO3183	73.58	73.65 (+) 10%, (-) 3.5%
	Straightness	%	IS/ISO3183	0.02	0.2% (Max.) of total length
	Bevel Angle Cl-9.12.5.2	-	IS/ISO3183	32°	30° + 5°, - 0°
	Root Face Cl-9.12.5.2	mm	IS/ISO3183	1.50	1.60 ± 0.80
5.	Weld Seam CL-9.13.2.1 & Table-15				
	Height of inside weld flash,	mm	IS/ISO3183	0.20	1.5 Max.
	Depth of groove	mm	IS/ISO3183	Nil	0.05 Max.
6.	Hydrostatic Test CL-9.4.1 & 10.2.6	-	IS/ISO3183	Pipe withstand without leakage at hydro pressure of 7.3 MPa for 10 seconds	Hydrostatic test shall be carried out at test pressure of 7.3 MPa
7.	Workmanship CL-9.10.1	-	IS/ISO3183	Passes the test	Pipe shall be cleanly finish and reasonably free from injurious defects. The ends shall be free from sharp edge and burrs of pipe.
8.	Marking CL-11.2.1	-	IS/ISO3183	Passes the test	Mfr's Name, OD, Thickness, IS/ISO3183, Pipe steel grade, Product specification level designation, Type of pipe, Batch No. & ISI logo

**Remarks:** Sample meets the requirement to As Per IS/ISO3183-2007, Gr. L-210, PSL-1 with respect to above test only.

**\*\* End of Report\*\***

  
**Authorised Signatory**

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## TEST REPORT

Issued To,  
M/S Indus Tubes Ltd.  
G.T. Road, Chhaprola,  
Distt-GB. Nagar (U.P.)

Report No. 50-09072021-15  
Report Date 12/07/2021  
Sample Received On 09/07/2021  
Analysis Date 09/07/2021 to 12/07/2021  
Report Prepared On 12/07/2021  
Submitted By Customer

Sample Description : 219.1mm OD x 7.10mm Thickness, ERW, Black Plain End Pipe

Specification As Per IS: 9295-83, Gr. YSt-210

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S. No	Test Parameters	Unit	Method	Result	Limit
1.	Chemical Test (%) Cl :7.1 & 7.2				
	Sulphur	%	IS 228 Part-9	0.025	0.065 Max.
	Phosphorus	%	IS 228 Part-3	0.018	0.065 Max.
2.	Mechanical Test CL- 8.0 & Table-1				
	Tensile Strength	MPa	IS:1608-2005	398	330 Min
	Yield Strength	Mpa		291	210 Min
	Elongation % (GL=5.65V <sub>S0</sub> )	MPa		29	20 Min
3.	Drift Expansion Test CL-8.2		IS:2335	Satisfactory	A test piece approx. 100mm in length and the minimum increase in outside diameter after expansion shall be 2.5 percent. A ring not less than 50mm in length shall be flattened cold between parallel plates with the weld, if any at 45° (point of maximum bending). No opening shall occur by fracture in the weld area until the distance between the plates is less than 75% of the original outside diameter of the tube and no cracks or breaks in the metal elsewhere than in the weld shall occur until the distance between the plates is less than 60% of the original outside diameter.
4.	Flattening Test,CI-8.3	%	IS 2328:1985	Satisfactory	

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## TEST REPORT

Report No. 50-09072021-15

Specification As Per IS: 9295-83, Gr. YSt-210

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S. No	Test Parameters	Unit	Method	Result	Limit
5.	Dimensions				
	Outside diameter Cl-13.1.4 Table-2	mm	IS:9295	219.2	219.1 ± 0.80%
	Thickness Cl-13.1.4 Table-2	mm	IS:9295	7.06	7.10 ± 10%
	Ovality Cl-13.1.1	mm	IS:9295	0.50	0.80 Max.
	Mass of Plain tube Cl-13.1.3.&Table-5	Kg/m	IS:9295	37.03	37.12 ± 10%
	Eccentricity CL-13.1.2	%	IS:9295		5% Max.
	Straightness CL-15.1	-	IS:9295	Passes the test	1/1000 (Max.) of any length
	Height of internal Fin CL-6.2	-	IS:9295	0.10	1.70mm Max.
6.	Workmanship Cl-14	-	IS:9295	Passes the test	Pipe shall be free from harmful defects, reasonably smooth and free from rust. The ends shall cut square.
7.	Marking Cl-18	-	IS:9295	Passes the test	Mfr's Name, OD, Thickness, IS:9295, Grade & ISI marked

**Remarks:** Sample meets the requirement to As per IS: 9295-83, Gr. YSt-210 with respect to above test only.

**\*\* End of Report\*\***

**Authorised Signatory**

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## TEST REPORT

Issued To,	Report No.	: 50-16112023-08
M/S Indus Tubes Ltd.	Date of Receiving	: 16/11/2023
G.T. Road, Chhaprola,	Date of Starting	: 16/11/2023
Distt. G.B. Nagar, (U.P.)	Date of Completion	: 18/11/2023
	Date of Reporting	: 18/11/2023
	Submitted By	: Customer

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Sample Description	: 200mm NB x 7.1mm Thickness ERW Black Bevel End
Batch No.	: 13

Specification As Per IS: 4270-2001, Gr. Fe-410 (with Amdt. No.2)

S.No.	Test Parameters	Unit	Method	Result	Limit
1.	Chemical Test Cl- 5.2				
	Sulphur	%	IS: 228 Part-9-1989	0.018	0.040 Max
	Phosphorus	%	IS: 228 Part-3-1987	0.020	0.040 Max
2.	Hardness of weld portion Cl- 5.3	HV	IS: 1501-2002	150	230 Max
3.	Mechanical Test Cl 6.1 & Table-1				
	Yield Strength	MPa	IS:1608 (P-1)-2022	412	235 Min
	Tensile Strength	MPa		484	410 Min
Elongation (GL=5.65VS <sub>0</sub> )	%	20.5		15 Min	
4.	Flattening Test Cl-6.2	-	IS 2328:2005	Satisfactory	No crack or flow shall occur by fracture in the weld until the distance between plates under load condition is less than 66% of O.D. and no cracks or breaks in the metal elsewhere than in the weld shall occur until the distance between the plates is 33% of O.D. of the sample.

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## TEST REPORT

Report No. : 50-16112023-08

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S.No.	Test Parameters	Unit	Method	Result	Limit
5.	Dimensions CI-7 Table-2				
	Outside diameter CI-7.2.1 & Table-3	mm	IS: 4270-2001	219.3	219.1 ± 1%
	Thickness CI-7.2.2 & Table-2	mm		7.2	7.1 + 15% - 12.5% (For welded Tubes)
	Mass of plain tube CI-7.2.3 & Table-2	Kg/m		37.56	37.12 + 10% -8%
	Straightness CI-7.3	mm		Passes the test	Tube shall not deviate from straightness by more than 1 in 600 of any length
6	Pipe Ends				
	Bevel Ends	°	IS: 4270-2001	46	Bevel angle at 45° ± 2.5°
	Root Face	mm		1.70	1.60 ± 0.80
7.	Hydrostatic Test CI-8	-	IS: 4270-2001	Pipe withstand without leakage at hydro pressure of 7 MPa for 3 seconds	Hydrostatic test shall be carried out at test pressure of 7 MPa



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## TEST REPORT

Report No. : 50-16112023-08

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S.No.	Test Parameters	Unit	Method	Result	Limit
8.	Protective coating CI-12	-	IS: 4270-2001	Passes the test	Unless otherwise specified by the purchaser the black tubes shall be externally coated with bituminous solution or any other protective anti-corrosion coating. The bituminous solution shall be of a quality such as to produce a coating which, dry, shall be smooth, tough and tenacious and sufficiently hard not to flow on exposure to a temperature of 65°C and shall not be brittle at 0°C. It not be such as will impart a taste to the water.
9.	Workmanship CI -14.1	-	IS: 4270-2001	Passes the test	Pipe shall be cleanly finished and when visually inspected should be free from injurious defects and shall be cleanly cut and reasonably square with axis of the tube.
	Workmanship CI -14.2	-		Passes the test	For ERW/HFIW pipes, the inner weld fin height shall not be more than 60% of the wall thickness.

Remarks: Sample meets the requirement to IS: 4270-2001, Gr. Fe-410 with respect to above test.

**\*\* End of Report\*\***



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