






**MILL TEST CERTIFICATE**

CERTIFICATE ACCORDING TO EN 10204 : 3.1

<b>PURCHASER NAME :</b>				<b>TEST CERTIFICATE No.:</b>		1583/2023							
<b>PURCHASER ORDER No. :</b>		356711HOU		<b>Date :</b>		29-06-2023							
<b>WORK ORDER No. :</b>		LBST/WO/EXP/23-24/13		<b>TEST CERTIFICATE Date :</b>		05.10.2023							
<b>NAME OF STEEL SUPPLIER :</b>		BHUSHAN POWER & STEEL LTD - INDIA - Melt & Pour		<b>INVOICE NO:</b>		LBSTEXP2324061							
<b>STEEL MAKING METHOD :</b>		BF-EAF-LRF-CCM-(EMS)-RM, Fully Killed		<b>INVOICE Date :</b>		05.10.2023							
<b>PROCESS OF PIPE MANUFACTURE :</b>		CDS / CS / PIPES											
<b>MANUFACTURE PROCESS ROUTE :</b>		PM-HI-STP-CD-HT-Finishing-NDT-P&F-Dispatch.		<b>CUSTOMER UID NO</b>		<b>PO. SL. NO. 5</b>							
<b>SPECIFICATION &amp; GRADE :</b>		ASTM A53 GR.B(Ed.2012)/ASME SA53 GR.B(Ed.2019)//ASTM A106 GR.B(Ed.2015)/ASME SA106 GR.B(Ed.2019)/NACE MR0103(EDT- 2015) / NACE MR0175(EDT- 2015) / ISO15156											
Sr. No.	LBST HEAT NO	SUPPLIER HEAT NO	SIZE				Quantity			General			
			OD (INCH)	ID (INCH)	WT (INCH)	Length (FEET)	Nos.	FEET.	MT.	End Condition	Coating		
1	C233257	C233257	1.05" X 0.154" X 19 Feet Long.				1631	30989.00	-	Square with Chamfer	Black Paint		
CHEMICAL COMPOSITION (%)													
Sr. No.	HEAT NO	REQUIRED	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%V	%C.E
		Min.	-	0.40	0.10	-	-	-	-	-	-	-	-
		Max.	0.30	1.20	-	0.025	0.025	0.30	0.40	0.40	0.12	0.08	-
1	C233257	L /A	0.19	0.72	0.13	0.002	0.018	0.013	0.007	0.005	0.001	0.001	0.314
	C233257	P1 /A	0.19	0.71	0.12	0.003	0.017	0.012	0.006	0.004	0.002	0.002	0.313
		P2 /A	0.19	0.71	0.12	0.002	0.018	0.013	0.006	0.004	0.001	0.001	0.313
MECHANICAL PROPERTIES													
Sr. No.	HEAT NO	REQUIRED	YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	ELONGATION (%)		HARDNESS (HRB)	IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE		
			G.L = 50 mm, Tubes tested on full section										
		Min	35000	60000	30		-	-	-	-	-		
		Max	-	-	-		99	-	-	-	-		
1	C233257		39704	61409	48.60		69 - 70	NA	OK	NA	7.0		
NON-DESTRUCTIVE TEST						SURFACE QUALITY							
Sr. No.	HEAT NO	STRAIGHTNESS	HYDRO-STATIC TEST as Per ASTM A530 (100%)	E.C.T. as Per ASTM E-309 (100%)	U.T. AS PER ASTM E-213 (100%)	VDI	IN SIDE / OUT SIDE		RA VALUE	PMI			
1	C233257	Satisfactory	2500 PSI ,OK	OK	NA	Satisfactory	Satisfactory		NA	NA			
Heat Treatment : Heat Treated Above 650°C (1200°F)													
MARKING: LBST /  /CDS/ ASTM A106B ASME SA106B ASTM A53B ASME SA53B NACE MR 0175/NACE MR0103 ISO 15156 / OD 1.05",XS/SCH.80 X WT 0.154" X LG 19 FEET /HEAT NO C233257/HYD. 2500 PSI / NDE / PO NO.356711HOU / MADE IN INDIA													
REMARKS: 1. All materials are Lead (Pb) & Mercury (Hg) Free. 2. Country of manufacturer- India & country of melt source - India. 3. We hereby certify that the material herein described has been Manufactured, Sample tested & Inspected in accordance with above standard, specification & P.O requirement & result found satisfactory.													
Legends : 1. L/A - Ladle Analysis, 2. P1/A - Product Analysis One,3. P2/A - Product Analysis Two, 4. CDS= Cold Drawn Seamless, 5. CS = Carbon Steel, 6. PM - Piercing Mill, 7. HI - Hollow Inspection, 8. STP - Surface Treatment Plant, 9. CD= Cold Drawn, 10. HT - Heat Treatment, 11. NDT - Non Destructive Testing, 12. VDI= Visual Dimension Inspection, 13. P&F - Packing & Forwarding.													
For, <b>LAL BABA SEAMLESS TUBES PVT. LTD.</b>													
ISSUED BY:													
Atanu Pachhal ENGINEER (QA/QC)													
										Rakesh Kr. Sahoo Asst. Manager (QA/QC)			

**LAL BABA SEAMLESS TUBES PRIVATE LIMITED**

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