


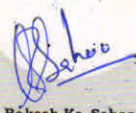



MILL TEST CERTIFICATE

CERTIFICATE ACCORDING TO EN 10204 : 3.1

PURCHASER NAME :				TEST CERTIFICATE No.:		2624/2022							
PURCHASER ORDER No. :		342378HOU		Date :		14-02-2023							
WORK ORDER No. :		LBS/WO/EXP/22-23/131		Date :		27-02-2023							
NAME OF STEEL SUPPLIER :		BHUSHAN POWER & STEEL LTD - INDIA - Melt & Pour		INVOICE NO:		LBSTEXP2223212							
STEEL MAKING METHOD :		BF-EAF-LRF-CCM-(EMS)-RM, Fully Killed		INVOICE Date :		30.03.2023							
PROCESS OF PIPE MANUFACTURE :		CDS / CS / PIPES											
MANUFACTURE PROCESS ROUTE :		PM-HI-STP-CD-HT-Finishing-NDT-P&F-Dispatch.		CUSTOMER UID NO		PO. SL. NO. 3							
SPECIFICATION & GRADE :		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	18B027	E230449	1.05" X 0.154" X 19 Feet Long.				4999	94977.72	-	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	-	-	-	-	-	-	-	-
1	E230449	L/A	0.19	0.70	0.15	0.006	0.009	0.020	0.004	0.000	0.000	0.002	0.311
	18B027	P1/A	0.18	0.69	0.15	0.005	0.009	0.019	0.005	0.001	0.001	0.002	0.300
		P2/A	0.19	0.70	0.14	0.006	0.008	0.020	0.005	0.001	0.001	0.002	0.312
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, Pipes tested in Full section											
1	18B027	Min	35000	60000	30	-	-	-	-	-			
		Max	-	-	-	99	-	-	-	-			
			41304	64129	48.00	72 - 73	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	18B027	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. 18B027 / HYD 2500 PSI / NDE / PO NO. 342378HOU / 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, LAL BABA SEAMLESS TUBES PVT. LTD.													
ISSUED BY:									 Rakesh Kr. Sahoo Asst. Manager (QA/QC)				
 Sourav Maity ENGINEER (QA/QC)													

LAL BABA SEAMLESS TUBES PRIVATE LIMITED

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