



DOC. No: LBST/QAR/15 Rev.05 Dt: 06.01.2021

MILL TEST CERTIFICATE															
CERTIFICATE ACCORDING TO EN 10204: 3.1															
PURCHASER NAME :								TEST CERTIFICATE No.:		0613/2023					
PURCHASER ORDER No. :				348254HOU		Date :		29-03-2023		TEST CERTIFICATE Date :		16.06.2023			
WORK ORDER No. :				LBS/WO/EXP/22-23/144				Date :		06-04-2023		INVOICE NO:		LBSTEXP2324029	
NAME OF STEEL SUPPLIER :				RASHTRIYA ISPAT NIGAM LIMITED - INDIA - Melt & Pour				INVOICE Date :		16.06.2023					
STEEL MAKING METHOD :				BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed											
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. 7			
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	A231639	A231639	1.315" X 0.179" X 19 Feet Long.				1092	20747.28	-	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	A231639	L/A	0.19	0.71	0.14	0.005	0.018	0.020	0.007	0.004	0.001	0.001	0.313		
	A231639	P1/A	0.19	0.72	0.13	0.005	0.017	0.018	0.007	0.003	0.001	0.002	0.315		
		P2/A	0.18	0.70	0.14	0.004	0.018	0.019	0.006	0.004	0.001	0.001	0.302		
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													
		Min	35000	60000	30		-	-	-	-	-	-			
		Max	-	-	-		99	-	-	-	-	-			
1	A231639		46601	64883	45.20		73 - 74	NA	OK	NA	7.0				
NON-DESTRUCTIVE TEST															
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	A231639	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 1.315", XS/SCH 80 X WT 0.179" X LG 19 FEET / HEAT NO. A231639 / HYD. 2500 PSI / NDE / PO NO. 348254HOU / 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:				COMPANY SEAL											
 Souparv Maity ENGINEER (QA/QC)								 Rakesh Kr. Sahoo Asst. Manager (QA/QC)							

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