



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.:	
PURCHASER ORDER No. : 333442HOU		2253/2022	
Date : 19-10-2022		TEST CERTIFICATE Date : 25-02-2023	
WORK ORDER No. : EXP/22-23/112		Date : 29-10-2022	
INVOICE NO: LBSTEXP2223191		INVOICE Date : 25-02-2023	
NAME OF STEEL SUPPLIER : RASHTRIYA ISPAT NIGAM LIMITED - INDIA - Melt & Pour			
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. 5	
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
1	18R244	22E01555	1.315" X 0.179" X 19.1 Feet Long.			819	15638.39	-	Square with Chamfer	Black Paint

Sr. No.	HEAT NO	REQUIRED	CHEMICAL COMPOSITION (%)										
			%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%V	%C.E
1	22E01555	Min.	-	0.40	0.10	-	-	-	-	-	-	-	-
		Max.	0.30	1.35	-	0.025	0.025	0.30	0.40	0.40	0.12	0.08	-
		L /A	0.17	0.66	0.11	0.009	0.016	0.014	0.000	0.000	0.000	0.000	0.286
		P1 /A	0.17	0.65	0.11	0.009	0.015	0.015	0.006	0.004	0.002	0.001	0.283
1	18R244	P2 /A	0.17	0.66	0.11	0.008	0.016	0.015	0.006	0.004	0.002	0.001	0.284

Sr. No.	HEAT NO	REQUIRED	MECHANICAL PROPERTIES				HARDNESS (HRB)	IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE
			YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	ELONGATION (%)						
			G.L = 50 mm, Pipe tested in full section								
Min			35000	60000	30		-	-	-	-	
Max			-	-	-		99	-	-	-	
1	18R244		46403	64965	49.50		79 - 80	NA	OK	NA	7.0

Sr. No.	HEAT NO	STRAIGHTNESS	NON-DESTRUCTIVE TEST				SURFACE QUALITY		
			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	18R244	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 19.1 FEET / HEAT NO. 18R244 / NDE / HYD 2500 PSI / PO. 333442HOU / 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: Sourav Maity ENGINEER (QA/QC)			 Rakesh Kr. Sahoo Asst. Manager (QA/QC)
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