



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.:	2531/2022
PURCHASER ORDER No. :	342378HOU	Date :	14-02-2023
WORK ORDER No. :	LBS/WO/EXP/22-23/131	TEST CERTIFICATE Date :	28.03.2023
NAME OF STEEL SUPPLIER :	RASHTRIYA ISPAT NIGAM LIMITED - INDIA - Melt & Pour	INVOICE NO:	LBSTEXP223211
STEEL MAKING METHOD :	BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed	INVOICE Date :	28.03.2023
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. 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	Coating
1	18R330	22E03132	1.315" X 0.179" X 19 Feet Long.				536	10183.65	-	Square with Chamfer	Black Paint

Sr. No.	HEAT NO	CHEMICAL COMPOSITION (%)											
		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	22E03132	L/A	0.18	0.64	0.10	0.007	0.024	0.015	0.000	0.000	0.000	0.000	0.285
	18R330	P1/A	0.18	0.65	0.11	0.009	0.023	0.015	0.005	0.004	0.001	0.002	0.293
		P2/A	0.17	0.64	0.11	0.008	0.022	0.015	0.005	0.003	0.001	0.001	0.281

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, Pipes tested in Full section							
1	18R330	Min	35000	60000	30	-	-	-	-	-
		Max	-	-	-	99	-	-	-	-
			40956	65032	48.37	69 - 71	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	18R330	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. 18R330 / 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: Sourav Maity ENGINEER (QA/QC)			 Rakesh Kr. Sahoo Asst. Manager (QA/QC)
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LAL BABA SEAMLESS TUBES PRIVATE LIMITED

Corporate Office: 27, Shakespeare Sarani, 3rd Flr., Kolkata 700 017, WB
Registered Office & Plant: Kashberia, Bardhanyaghata Debhog, Haldia(E), WB 721 657, IN
Ahmednagar Unit: Plot No. F-48, Ahmednagar, Bypass Rd. MH - 414 111, IN

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WORK ORDER No. :	LBS/WO/EXP/22-23/131	TEST CERTIFICATE Date :	28.03.2023
NAME OF STEEL SUPPLIER :	RASHTRIYA ISPAT NIGAM LIMITED - INDIA - Melt & Pour	INVOICE NO:	LBSTEXP223211
STEEL MAKING METHOD :	BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed	INVOICE Date :	28.03.2023
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. 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	Coating
1	18R330	22E03132	1.315" X 0.179" X 19 Feet Long.				536	10183.65	-	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	22E03132	L/A	0.30	1.20	-	0.025	0.025	0.30	0.40	0.40	0.12	0.08	-	
		P1/A	0.18	0.64	0.10	0.007	0.024	0.015	0.000	0.000	0.000	0.000	0.285	
		18R330	P1/A	0.18	0.65	0.11	0.009	0.023	0.015	0.005	0.004	0.001	0.002	0.293
		P2/A	0.17	0.64	0.11	0.008	0.022	0.015	0.005	0.003	0.001	0.001	0.281	

Sr. No.	HEAT NO	REQUIRED	MECHANICAL PROPERTIES							
			YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	ELONGATION (%)	HARDNESS (HRB)	IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE
1	18R330		G.L = 50 mm, Pipes tested in Full section							
		Min	35000	60000	30	-	-	-	-	
		Max	-	-	-	99	-	-	-	
1	18R330		40956	65032	48.37	69 - 71	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	18R330	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. 18R330 / 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: Sourav Maity ENGINEER (QA/QC)	 	 Rakesh Kr. Sahoo Asst. Manager (QA/QC)
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Registered Office & Plant: Kashberia, Bardhanyaghata Debhog, Haldia(E), WB 721 657, IN
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STEEL MAKING METHOD :	BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed	INVOICE Date :	28.03.2023
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. 5
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		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	-	-	
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Sr. No.	HEAT NO	REQUIRED	MECHANICAL PROPERTIES			HARDNESS (HRB)	IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE
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1	18R330	Min	35000	60000	30	-	-	-	-	-
		Max	-	-	-	99	-	-	-	-
			40956	65032	48.37	69 - 71	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	18R330	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. 18R330 / HYD 2500 PSI / NDE / PO NO. 342378HOU / MADE IN INDIA

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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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STEEL MAKING METHOD :		BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed		INVOICE Date :		28.03.2023							
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. 5							
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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	-
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MECHANICAL PROPERTIES													
Sr. No.	HEAT NO	REQUIRED	YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	ELONGATION (%)	HARDNESS (HRB)	IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE			
		Min	35000	60000	30	-	-	-	-	-			
		Max	-	-	-	99	-	-	-	-			
1	18R330		40956	65032	48.37	69 - 71	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				
		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. 18R330 / HYD 2500 PSI / NDE / PO NO. 342378HOU / MADE IN INDIA													
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ISSUED BY:													
Sourav Maity ENGINEER (QA/QC)												Rakesh Kr. Sahoo Asst. Manager (QA/QC)	

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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	-
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		Min	35000	60000	30	-	-	-	-	-			
		Max	-	-	-	99	-	-	-	-			
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		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. 18R330 / HYD 2500 PSI / NDE / PO NO. 342378HOU / MADE IN INDIA													
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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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Registered Office & Plant: Kashberia, Bardhanyaghata Debhog, Haldia(E), WB 721 657, IN
Ahmednagar Unit: Plot No. F-48, Ahmednagar, Bypass Rd. MH - 414 111, IN

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