

**TATA STEEL LIMITED****ERW PIPE DIVISION**

Works-Village Nifan & Sarvoli, Near Khopoli, Taluka-Khalapur, Distt. : Raigad- 410202 (Maharashtra) INDIA

CIN No.L27100MH1907PLC000260, Website No. www.tatasteel.com

IS 3589



CM/L 3749780

TSL/ERW/QC/F-23, Rev. 06, Date 13.11.2021

TEST CERTIFICATE

INVOICE NO : 7248033006

T.C. No. : TSL/MTC/2025/IS0000007542

TRUCK NO - KA35C2883

Date : 26.03.2025

Specification : IS 3589

Grade : Fe 410

Customer's Name & Address :

Consignment Address :

Manufacturing Process : ERW /HFIW (Electric Resistance Welded / High Frequency Induction Welded)

Size (OD X WT) (mm)	Heat No.	Total Pcs	Total Length (Mtr)/ Weight (MT)	Requirements	CHEMICAL ANALYSIS (% Max)					MECHANICAL PROPERTIES (Min)		
					C	Mn	P	S	CE	Yield Strength (MPa)	Tensile Strength (MPa)	% El (5.65√A GL)
					Min.	-	-	-	-	235	410	18
406.4 X 6.00	V33635	1	203.570	Max.	0.2000	1.6000*	0.0400	0.0400	0.4500	-	-	-
406.4 X 6.00	V43740	1		-	0.0506	0.7448	0.0145	0.0032	0.1821	413	481	29.2
406.4 X 6.00	V44588	2		-	0.0605	0.8459	0.0175	0.0053	0.2087	420	480	28.8
406.4 X 6.00	V44986	3		-	0.0598	0.7359	0.0192	0.0077	0.1912	421	494	24.6
406.4 X 6.00	V44971	4		-	0.0489	0.7166	0.0182	0.0073	0.1754	400	478	29.0
406.4 X 6.00	V44989	1		-	0.0659	0.7383	0.0185	0.0022	0.1967	435	498	27.7
406.4 X 6.00	V44989	1		-	0.0520	0.7090	0.0150	0.0030	0.1777	396	480	29.2
406.4 X 6.00	V44994	5		-	0.0510	0.7310	0.0200	0.0030	0.1805	440	502	26.1
		17	203.570									

Flattening Test	Hydrostatic Test	Drift/Expansion Test	Eddy Current Test	Hardness Test	Crushing Test	1. This is to Certify that the above fully Confirms to IS 3589 : 2001 & Grade Fe 410 & Manufactured under BIS License Number CM/L - 3749780 2. It is certify that each steel pipes supplied conforms to standard dimensions and mass tolerances. 3. *For each reduction by 0.01% Carbon below the specified max., an increase of 0.05% above the max. of manganese is permissible up to a max. of 1.60 for grades Fe410 and Fe450
OK	OK	NA	NA	NA	NA	

MARKING

Embossing

Paint Stencil

TATA
PIPES

WT OD

ERW

Fe 410

PIPE NO.

LENGTH

HEAT NO.

REVIEWED BY

APPROVED BY