



TEST CERTIFICATE

000356167

Issued to :

JSW STEEL LIMITED
607, 6TH FLOOR
BHIKAJI CAMA BHAWAN
BHIKAJI CAMA PLACE
NEW DELHI --

J.O.No. 501-171-3904
Reg.No. 1369443
Date 28-01-2015
GC-01 (REV-04)

Your Ref.No. -

Kind Attn: MR VIKRAM GUPTA , DY MANAGER

Sample Particulars :

Date 21.01.2015

One Sample described as TMT Bar- JSW TMT PLUS, Grade FE 500D dia 16 mm was received.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS

(As Per IS: 1786-2008 with amendment No.2)

S.No.	Tests	Observation	Requirement Grade Fe-500D	Conformity	Protocol Adopted
A. Chemical Tests (% by wt.)					
1.	Carbon	0.17	0.25 Max.	Yes	IS:228 Pt 1-2002
2.	Sulfur	0.015	0.040 Max	Yes	IS:228 Pt 9-2004
3.	Phosphorus	0.022	0.040 Max	Yes	IS:228 Pt 3-2002
4.	Sulfur + Phosphorus	0.037	0.075 Max	Yes	IS: 1786-2008
B. Physical Tests					
1.	T S/YS ratio ¹	1.19	≥ 1.10, but TS not less than 565.0	Yes	IS: 1786-2008
	Tensile Strength , N/mm ²	658		Yes	IS:1608-2005
2.	Yield Stress , N/mm ²	552	500 Min.	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	25.0	16.0 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run (Kg)	1.564	Not less than 1.485	Yes	IS: 1786-2008
7. Deformations & Surface Characteristics					
a.	Mean ribs area in mm ² /mm length	3.24	2.40 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transverse ribs in mm ² /mm length	3.24	0.80 Min.	Yes	IS: 1786-2008

Remarks: The sample conforms to IS: 1786-2008 with amendment No.2 for Grade FE 500 D.

Note: 1 - TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

D.O.R.: 21/01/2015

D.O.C.: 28/01/2015

AUTHORISED SIGNATORY
(EMPLOYEE CODE: 5065)