



**STRUCTURAL ENGINEERING LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI- 600036**

Title : Testing of TMT Bar

Client : M/s JSW Steel Limited, Fagun Mansion, 5th Floor, New No.74, (Old No.26), Ethiraj Salai, Egmore, Chennai – 600 008.

Reference No: Your letter dated: 22.07.2016

August 22, 2016

Testing of reinforcement rod 8mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.			363.4/426.6	628	500	16%
Test Value	8	50.3	377	653	572	23

The specimen tested satisfies the code requirements.



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Testing of reinforcement rod 32mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Reduced Diameter of rod (mm)	Nominal Area of Rod (mm ²)	Reduced Area Of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.					6057/6562	619	500	16%
Test Value	32	23.3	804.6	426.4	6215	633	563	23

The specimen tested satisfies the code requirements.

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Testing of reinforcement rod 10mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.			567.6/666.4	609	500	16%
Test Value	10	78.6	616	688	554	23

The specimen tested satisfies the code requirements.

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Testing of reinforcement rod 12mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.			834/941	644	500	16%
Test Value	12	113.1	858	676	585	22.8

The specimen tested satisfies the code requirements.



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Testing of reinforcement rod 16mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.			1485/1674	623	500	16%
Test Value	16	201.2	1528	667	585	19.6

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Testing of reinforcement rod 20mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.			2371/2568	612	500	16%
Test Value	20	314.3	2440	670	558	22.3

The specimen tested satisfies the code requirements.

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Testing of reinforcement rod 25mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Nominal Area of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value - Minimum/Max.			3696/4004	585	500	16%
Test Value	25	491.1	3828	668	532	23

The specimen tested satisfies the code requirements.

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Testing of reinforcement rod 28mm (Fe 500D)

Test Conducted as per Specification IS 1786:2008	Nominal diameter Of rod (mm)	Reduced Diameter of rod (mm)	Nominal Area of Rod (mm ²)	Reduced Area Of Rod (mm ²)	Nominal Mass of Rod (kg/km)	Tensile Strength Of Rod Minimum (kN)	0.2% Proof Stress	Percentage of Elongation
Required Value Minimum/Max.					4636/5023	593	500	16%
Test Value	28	23.3	615.8	426.4	4908	612	539	23

The specimen tested satisfies the code requirements.

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