



भारत सरकार  
Government of India

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)  
National Test House (Eastern Region)

ब्लॉक - सी पी, सेक्टर - V, साल्ट लेक सीटी, कोलकाता - 700 091  
Block-CP, Sector-V, Salt Lake City, Kolkata - 700 091



T.C No. NTH(ER)/M(L)/2014/00229C  
Issued To M/s Tech Nirman Ispat Pvt Ltd  
46, B.B.Ganguly Street,  
Kolkata-700012

Dt.27 .05.2014

Ref :- Nil Dated 09.04.2014

Sample Identification : Embossed as "TOP TECH TMT 500D" .

Sample Description: Stated as "TMT Bar 12 mm Dia.".

Product Specification :-As per IS:1786-2008, Fe500D

## TEST RESULTS

Sl no.	Test Parameters	Observed Value	Limit
1 Physical	Mass/Length (Kg/m)	0.855	Min 0.835
2. Physical	0.2% P.S(N/mm <sup>2</sup> )	555.50	Min 500.0
3. Physical	Tensile Strength (N/mm <sup>2</sup> )	633.55	Min 565 .0
4.. Physical	Elongation(%)	25.0	Min 16.0
5. Physical	Total Elongation at max force(%)	8.0	Min 5.0
6. Physical	Bend Test	Satisfactory	There is no rupture or cracks at the surface of bent portion
7. Physical	Rebend Test	Satisfactory	There is no rupture or cracks at the surface of rebent portion
8. Chem.	%C by mass	0.18	Max 0.27
9. Chem	%S by mass	0.036	Max 0.045
10. Chem	% P by mass	0.032	Max 0.045
11. Chem	%(S+P) by mass	0.068	Max 0.085

Remarks :-In respect of test carried out, the sample meets the requirement of IS-1786-2008, for Grade Fe 500D .

Tested By  
S.Majumder  
Sc. Officer(Mech)  
NTH(ER)

Checked by  
Dr. P..Kanjilal  
Sc SD(Mech)  
NTH(ER)

Approved by  
Dr. P..Kanjilal  
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