



MEGHALAYA POWER GENERATION CORPORATION LIMITED

OFFICE OF THE EXECUTIVE ENGINEER,

DESIGN DIVISION (C.), UMLAM

SOIL, CONCRETE & STEEL TESTING LABORATORY

REGD NO. MUDA/LTF/2015/FM(GTA)/19.

Sample received from: Goutam Bhattacharya, GM (Marketing) Maithan.

Vide Letter No.: Nill.

Date: 30.04.2019

Subject: Testing of Maithan 600 TMT Bar.

Brand	Grade of Steel.	Size- φ(mm)	Cross-sectional Area (mm <sup>2</sup> )	Test Conducted	Observations	Permissible Limits/Tolerances as per IS:1786: 2008.	Results.	Remarks.
Maithan.TMT.	Fe 600.	8	50.3	0.2% Proof stress/Yield stress.(N/mm <sup>2</sup> )	616.30 N/mm <sup>2</sup>	Min. 600 N/mm <sup>2</sup> for Fe 600	O.K.	The samples conformed as per IS: 1786:2008 Specifications.
				Tensile Test(N/mm <sup>2</sup> )	667.89 N/mm <sup>2</sup>	Not less than 660.00 N/mm <sup>2</sup> for Fe 600.	O.K.	
				Bend Test	No rapture or cracks visible	Bend angle 90°	O.K.	
				Rebend Test	No rapture or cracks visible.	Rebend Angle 135° & 157.5°	O.K.	
				Elongation.	20.00%	Minimum 10%	O.K.	
				Unit Weight.	0.385 Kg/m	0.395±7% upto including 10mm φ	O.K.	

TESTED & RECORDED BY

13/5/2019  
Junior Engineer (C)  
Design Division  
UMLAM, UMLAM

13/5/19  
Assistant Executive Engineer  
Design Division (C)  
UMLAM, UMLAM





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Vide Letter No.: Nill.

Subject: Testing of Maithan 600 TMT Bar.

Date: 30.04.20109

Brand	Grade of Steel.	Size- φ(mm)	Cross- sectional Area (mm <sup>2</sup> )	Test Conducted	Observations	Permissible Limits/Tolerances as per IS:1786: 2008.	Results.	Remarks.
Maithan.TMT.	Fe 600.	10	78.6	0.2% Proof stress/Yield stress.(N/mm <sup>2</sup> )	610.69 N/mm <sup>2</sup>	Min. 600 N/mm <sup>2</sup> for Fe 600	O.K.	The samples conformed as per IS: 1786:2008 Specifications.
				Tensile Test(N/mm <sup>2</sup> )	669.21 N/mm <sup>2</sup>	Not less than 660.00 N/mm <sup>2</sup> for Fe 600.	O.K.	
				Bend Test	No rapture or cracks visible	Bend angle 90°	O.K.	
				Rebend Test	No rapture or cracks visible.	Rebend Angle 135° & 157.5°	O.K.	
				Elongation.	20.56%	Minimum 10%	O.K.	
				Unit Weight.	0.600 Kg/m	0.617±7% upto including 10mm φ	O.K.	

TESTED & RECORDED BY

13/5/2019  
Junior Engineer (C)  
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MePGCL, UMIAM

13/5/19  
Executive Engineer (C)  
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Vide Letter No.: Nill.

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Date: 30.04.2019

Brand	Grade of Steel.	Size- $\phi$ (mm)	Cross-sectional Area ( $\text{mm}^2$ )	Test Conducted	Observations	Permissible Limits/Tolerances as per IS:1786: 2008.	Results.	Remarks.
Maithan.TMT.	Fe 600.	12	113.1	0.2% Proof stress/Yield stress.( $\text{N}/\text{mm}^2$ )	618.92 $\text{N}/\text{mm}^2$	Min. 600 $\text{N}/\text{mm}^2$ for Fe 600	O.K.	The samples conformed as per IS: 1786:2008 Specifications.
				Tensile Test( $\text{N}/\text{mm}^2$ )	669.43 $\text{N}/\text{mm}^2$	Not less than 660.00 $\text{N}/\text{mm}^2$ for Fe 600.	O.K.	
				Bend Test	No rapture or cracks visible	Bend angle 90°	O.K.	
				Rebend Test	No rapture or cracks visible.	Rebend Angle 135° & 157.5°	O.K.	
				Elongation.	21.76%	Minimum 10%	O.K.	
				Unit Weight.	0.900 $\text{Kg}/\text{m}$	0.888 $\pm$ 5% over 10 upto including 16mm $\phi$	O.K.	

TESTED & RECORDED BY

13/5/2019  
Junior Engineer (C)  
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13/5/19  
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