



Laboratory Test Report

Dated: 28.06.2019

1. Test done for : Mackintosh Burn Limited
2. Reference No : TA/NBDD/17/85K/ST-01 Dated on 10.06.2019
3. NIET No : MBL/NBDD/NIT 22 of 2017-18
4. Name of the work : Construction of Auditorium near Tufanganj Municipality in the District of Coochbehar under North Bengal Development Department (Our job No- 2017/85X).
5. Name Of Agency : Z-Star Commotrade Pvt. Ltd.
6. Type of test : Physical Test of TMT Bar (Fe-500D) of ELEGANT Brand as Per IS 1786-2008.

Physical Test Results:-

Bar Dia (mm)	Unit Weight (Kg/m)		0.2% Proof stress/Yield Stress (N/mm ²)		Tensile Strength (N/mm ²)		Elongation (%)		Bend & Re-bend test
	Value Obtained	Standard	Value Obtained	Per-missible* (Min)	Value Obtained	Per-missible* (Min)	Value Obtained	Per-missible* (Min)	
10	0.619	0.617	560	500	640	565	19.800	16.00	O.K
12	0.889	0.888	555		634		19.77		O.K
16	1.582	1.580	552		631		19.75		O.K
20	2.471	2.470	551		627		19.72		O.K
25	3.851	3.850	549		623		19.68		O.K

(Tolerance for dia including and upto 10mm , over 10mm and including and upto 16mm and over 16mm nominal masses of $\pm 7%$, $\pm 5%$, $\pm 3%$ respectively are allowable . *As per IS:1786-2008.

Note :- Tests were carried out on the sample sent by the Agency in sealed conditions.

Remarks: Samples were found to satisfy with the Physical Test Requirement as per IS: 1786-2008.

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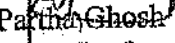
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Physical Test Results:-

Bar Dia (mm)	Unit Weight (Kg/m)		0.2% Proof stress/Yield Stress (N/mm ²)		Tensile Strength (N/mm ²)		Elongation (%)		Bend & Re-bend test
	Value Obtained	Standard	Value Obtained	Per-missible* (Min)	Value Obtained	Per-missible* (Min)	Value Obtained	Per-missible* (Min)	
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Remarks: Samples were found to satisfy with the Physical Test Requirement as per IS: 1786-2008.

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5. Name Of Agency : Z-Star Commotrade Pvt. Ltd.
6. Type of test : Chemical Test of TMT Bar (Fe-500D) of ELEGANT Brand as Per IS 1786-2008


Chemical Test Results:-

Bar Dia (mm)	Carbon as C (%)		Sulphur as S(%)		Phosphorus as P(%)		Sulphur & Phosphorus (%)	
	Value Obtained	Permissible* (max)	Value Obtained	Permissible* (max)	Value Obtained	Permissible* (max)	Value Obtained	Permissible* (max)
10	0.20	0.25	0.033	0.040	0.034	0.040	0.066	0.075
12	0.20		0.032		0.031		0.064	
16	0.19		0.030		0.030		0.062	
20	0.19		0.028		0.028		0.058	
25	0.18		0.027		0.026		0.054	

*As per IS:1786-2008.

Note :- Tests were carried out on the sample sent by the Agency in sealed conditions.

Remarks: Samples were found to satisfy with the Chemical Test Requirement as per IS: 1786-2008


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