



REPORT NO. ITLM2025012645			ULR NO. ULR12365485		
ISSUED TO	:	THE EXECUTIVE ENGINEER, HARIDWAR	DATE OF RECEIPT	:	2025-11-12
			DATE OF START OF ANALYSIS	:	2025-11-05
LETTER REF. NO. & DATE	:	ITL/0012&2025-11-11	DATE OF COMPLETION OF ANALYSIS	:	2025-11-13
SAMPLE DESCRIPTION	:	TMT STEEL 12MM MAKE TATA	DATE OF ISSUE	:	2025-11-20
NAME OF WORK		GREATER NOIDA DEVELOPMENT AREA			

S. No.	Tests	Test Methods	Requirements IS 1786:2008 With Amendment No. 4 Grade: Fe-550	Results	Conformity
Discipline : Mechanical, Group : Mechanical Properties of Metals					
PHYSICAL TEST					
1.	Mass (kg/mtr.)	IS 1786:2008	0.888±5%	85	
2.	Yield Stress, N/mm <sup>2</sup>	IS 1608(P-1):2022	550.0 Min.	85	
3.	Tensile Strength, N/mm <sup>2</sup>	IS 1608(P-1):2022	585.0 Min.		
4.	TS/YS Ratio	IS 1608(P-1):2022	1.06 Min.		
5.	Elongation, %	IS 1608(P-1):2022	10.0 Min.		
6.	Bend Test	IS 1599:2023	No Rupture or Crack in the bent portion		
7.	Rebend Test	IS 1786:2008	No Rupture or Crack in the rebent portion		
Discipline : Chemical, Group : Metals & Alloys					
CHEMICAL TEST					
1.	Carbon, %by mass	IS 228(P-1):2025	0.30 Max.		
2.	Sulphur, %by mass	IS 228(P-9):1989	0.055 Max.		
3.	Phosphorus, %by mass	IS 228(P-3):2024	0.050 Max.		
56	ghjh	hgh	uyu		
jjh hjkj					
4.	Sulphur + Phosphorus, %by mass	IS:228 (P-9&3)	0.100 Max.		
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