

**UNIVERSAL ENGINEERING AND GEOTECHNICAL SERVICES LLP, VISNAGAR****Observation Sheet for TMT Bar****Job No : UES/20250210/00005/00006****Sample No : UES/20250210/00005****Date : 10/02/2025 To 14/02/2025**

Sr. No.	Diameter of Bar	Weight of Bar	Length of Bar	Nominal Mass	Cross Sectional Area	Initial Gauge Length IS 1608 PART-1	Final Gauge Length IS 1608 PART-1	Observed Yield Load IS 1608 PART-1	Yield Stress IS 1608 : Part 1 : 2022	Observed Ultimate Load IS 1608 PART- 1	Ultimate Stress IS 1608 : Part 1 : 2022	Elongation IS 1608 : Part 1 : 2022	Bend Test IS 1599 : 2019	Rebend Test IS 1599 : 2019
	mm	Kg	m	Kg/m	mm <sup>2</sup>	mm	mm	N	N/mm <sup>2</sup>	N	N/mm <sup>2</sup>	%		
		a	b	c = a / b	d = c / 0.00785	e	f	g	g / d x 1000	h	h / d x 1000	$\frac{(f-e) \times 100}{e}$		
1	5 MM	156	1000	0.156	19.9	25	30.07	8880	446	10700	538	20	OK	OK
2	28 MM	4856	1003	4.841	616.7	140	167.44	271560	440	326000	529	20	OK	OK
3	4 MM	2.478	1000	0.002	0.3	5	12	56.2	187	89	297	140	OK	OK

Tested By :-

Checked By:-\_\_\_\_\_