



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

Page no: 63

TEST RESULT FOR TENSILE STRENGTH OF PLAIN/DEFORMED/RIBBED COLD TWISTED M.S BARS

Job No : 15/2025-2026 (Steel).
Name of Client : GE (Navy) North Chattogram.
Ref.ltr.No : CEN/215 of 2024-2025/10/E-6 Dt.16 July'2025.
Project Name : Construction of 1 x 52 C-type Officers Qtr.
Dt. of Sample Collection: 17 July'2025

Copy No : 05
Sample Specimen : Length 600mm , Dia 25mm
Sample Grade : 60
Frog Mark : RSM B-420 DWR.

Sample No	Nominal Dia	Actual Dia	Area Under Test	Actual Unit Weight	Average Actual Unit Weight	Yield or Proof load	Yield or Proof Strength	Average Yield or Proof load	Ultimate load	Ultimate Strength	Average Ultimate Strength	Ratio	Elongation% (gauge length)		Average Elongation% (gauge length)	
	inch mm	inch mm	sq.inch sq.mm	lb/ft kg/m	lb/ft kg/m	lb kn	psi Mpa	psi Mpa	lb kn	psi Mpa	psi Mpa	(Fult/Fy)	8inch	5d	8inch	5d
1	0.984 25.00	0.989 25.13	0.7609 490.8739	2.617 3.893	2.617 3.893	58016.59 258.07	76252 526	76919 530	77755.94 345.87	102195 705	102867 709	1.34	21		23	
2	0.984 25.00	0.989 25.13	0.7609 490.8739	2.617 3.893		57824.59 257.22	75999 524		76125.06 338.62	100052 690		1.32	24.5			
3	0.984 25.00	0.989 25.13	0.7609 490.8739	2.617 3.893		59730.74 265.69	78505 541		80920.52 359.95	106355 733		1.35	22.5			

Cautions:

1. Samples as supplied to the laboratory have been tested.The laboratory authority does not bear any responsibility as to the representative charecture of the samples to be tested.
2. It is recommended that samples are Sent in asecuried and sealed cover/packet/container under signature of the competent authority.
3. In order to avoid fraudulent of the test results,it is recommended that all test reports should be collected by duly authorised person and not by contractor/supplier.

Ovservation on Specimen(if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E)				Minimum Standard Requirments(ASTM A615/A616M-96a)									
Grade				ASTM A 615 M		ASTM A 615 M			ASTM A 615/A 615 M				
				Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)				
				N/mm2 or Mpa	N/mm2 or Mpa		psi (kg/cm2)	psi (kg/cm2)	Mpa (kg/cm2)	10 mm	13,16,19 mm	22,25 mm	29,32,36 mm
300	300	330	16			40	40000(2810)	70000(4910)	300(3050)	500(5090)	11	12	..
400/400w	400	440	14			60	60000(4210)	90000(6310)	420(4275)	620(6295)	9	9	8
500/500w	500	550	14			75	75000(5255)	100000(7015)	520(5275)	690(7010)	..	7	7

Laboratory Technician

Test Performed By

Vetted By