



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 11/2025-2026 (Steel). Copy No : 05
Name of Client : GE (Navy) Khulna. Sample Specimen : Length 600mm , Dia 25mm
Ref.ltr.No : EinC/138 of 2023-2024/72/E-6 Dt.09 July'2025. Sample Grade : 72.50
Project Name : Construction of 1 x OR's /equivalent residential building. Frog Mark : RSM B-500 CWR.
Dt. of Sample Collection: 10 July'2025

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	0.985 25.02	0.7609 490.8739	2.593 3.858	2.593 3.858	66524.89 295.92	87434 603	88065 607	79021.31 351.50	103858 716	105858 730	1.19	19.5		20	
2	0.984 25.00	0.985 25.02	0.7609 490.8739	2.593 3.858		69543.74 309.34	91402 630		83828.34 372.89	110176 760		1.21	19			
3	0.984 25.00	0.985 25.02	0.7609 490.8739	2.593 3.858		64944.91 288.89	85358 589		78778.41 350.42	103539 714		1.21	22			

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 M		ASTM A 615/A 615 M			
				Y/strength	Ult.Str	Y/strength	Ult.Str	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)	Mpa (kg/cm2)	10 mm	13,16,19 mm	22,25 mm	29,32,36 mm
300	300	330	16	40000(2810)	70000(4910)	300	300(3050)	500(5090)	11	12	..	..	
400/400w	400	440	14	60000(4210)	90000(6310)	420	420(4275)	620(6295)	9	9	8	7	
500/500w	500	550	14	75000(5255)	100000(7015)	520	520(5275)	690(7010)	..	7	7	6	

Laboratory Technician

Test Performed By

Vetted By