



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 : 17/2025-2026 (Steel).

Copy No : 05

Name of Client : GE (Army) Mirpur.

Sample Specimen : Length 600mm , Dia 25mm

Ref.ltr.No : CEA/317 of 2024-2025/13/E-6 Dt.20 July'2025.

Sample Grade : 60

Project Name : Construction of 1 x Composite SMBK Complex.

Frog Mark : SCRM B-420 DWR.

Dt. of Sample Collection: 20 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	0.993 25.21	0.7609 490.8739	2.634 3.919	2.634 3.919	61047.01 271.55	80235 553	77912 537	82916.90 368.83	108978 752	109587 756	1.36	21.5		23	
2	0.984 25.00	0.993 25.21	0.7609 490.8739	2.634 3.919		58280.31 259.24	76598 528		83495.22 371.40	109739 757		1.43	23.5			
3	0.984 25.00	0.993 25.21	0.7609 490.8739	2.634 3.919		58511.64 260.27	76902 530		83726.55 372.43	110043 759		1.43	25			

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