



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 : 90/2023-2024 (Steel).	Copy No : 05
Name of Client : GE (Air) Chattogram.	Sample Specimen : Length 600mm , Dia 25mm
Ref.ltr.No : 6004/ATI/46/E-6 Dt.16 Oct'2023.	Sample Grade : 60
Project Name : Construction of Airmen Training Institute.	Frog Mark : Baizid B-420 DWR.
Dt. of Sample Collection: 18 Oct'2023	

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	0.997	0.7609	2.659	2.659	53894.30	70834	71833	72261.86	94974	96118	1.34	26.5			
	25.00	25.33	490.8739	3.957		239.73	489		321.44	655						
2	0.984	0.997	0.7609	2.659	3.957	56283.93	73974	495	74850.44	98377	663	1.33	20.5			23
	25.00	25.33	490.8739	3.957		250.36	510		332.95	678						
3	0.984	0.997	0.7609	2.659	3.957	53785.57	70691	488	72282.68	95002	655	1.34	22.5			
	25.00	25.33	490.8739	3.957		239.25	488		321.53	655						

Cautions:

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

Observation on Specimen (if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E))				Minimum Standard Requirements (ASTM A615/A616M-96a)									
Grade	Y/strength N/mm ² or Mpa	Ult.Str N/mm ² or Mpa	Elongation %	ASTM A 615 M		ASTM A 615 M		ASTM A 615/A 615 M					
				Grade	Y/strength psi (kg/cm ²)	Ult.Str psi (kg/cm ²)	Grade	Y/strength Mpa (kg/cm ²)	Ult.Str Mpa (kg/cm ²)	Minimum Elongation in 8" (203.2 mm) GL (%)			
										10 mm	13,16,19 mm	22,25 mm	29,32,36 mm
300	300	330	16	40	40000(2810)	70000(4910)	300	300(3050)	500(5090)	11	12
400/400w	400	440	14	60	60000(4210)	90000(6310)	420	420(4275)	620(6295)	9	9	8	7
500/500w	500	550	14	75	75000(5255)	100000(7015)	520	520(5275)	690(7010)	..	7	7	6

Laboratory Technician

Test Performed By

Vetted By