



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 237/2022-2023(Steel).
 Name of Client : GE (Navy) North, Chattogram.
 Ref.ltr.No : CEN/141 of 2021-2022/14/E-6 Dt.29 Jan'2023.
 Project Name : Construction of JCO's Mess.
 Dt. of Sample Collection: 31 Jan'2023

Copy No : 03
 Sample Specimen : Length 600mm , Dia 16mm
 Sample Grade : 60
 Frog Mark : Baizid Steel 500+

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	0.630	0.636	0.312	1.083	1.083 1.611	29577.82	94908	90801 626	35775.14	114794	111622 770	1.21	15		17	
	16.00	16.165	201.062	1.611		131.57	655		159.13	792						
2	0.630	0.636	0.312	1.083		29728.18	95391		90801 626	35886.18						
	16.00	16.165	201.062	1.611	132.24	658	159.63	794								
3	0.630	0.636	0.312	1.083	25587.39	82104	90801 626	32698.45		104922	111622 770	1.28	19.5		17	
	16.00	16.165	201.062	1.611	113.82	566		145.45	724							

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.

Oservation on Specimen(if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E))				Minimum Standard Requirements(ASTM A615/A616M-96a)									
Grade	Y/strength N/mm2 or Mpa	Ult.Str N/mm2 or Mpa	Elongation %	ASTM A 615 M			ASTM A 615 M			ASTM A 615/A 615 M			
				Grade	Y/strength psi (kg/cm2)	Ult.Str psi (kg/cm2)	Grade	Y/strength Mpa (kg/cm2)	Ult.Str Mpa (kg/cm2)	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