



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 233/2022-2023(Steel).	Copy No : 03
Name of Client : GE (Navy) South, Chattogram.	Sample Specimen : Length 600mm , Dia 16mm
Ref.ltr.No : CEN/214 of 2021-2022/16/E-6 Dt.18 Jan'2023	Sample Grade : 72.5
Project Name : Construction of Over Ground Water Reservoir.	Frog Mark : Golden Ispat B-500 CWR.
Dt. of Sample Collection: 25 Jan'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	0.630	0.631	0.312	1.064	1.064	29237.77	93817	95423	35118.16	112686	114161	1.20	13			
	16.00	16.025	201.062	1.583		130.06	647		156.21	777						
2	0.630	0.631	0.312	1.064	1.583	29917.87	95999	658	35967.14	115410	787	1.20	14			14
	16.00	16.025	201.062	1.583		133.08	662		159.99	796						
3	0.630	0.631	0.312	1.064	1.583	30058.99	96452	665	35647.91	114386	789	1.19	14			
	16.00	16.025	201.062	1.583		133.71	665		158.57	789						

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 a secured 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.

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