



# 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 : 02
Name of Client : GE (Navy) South, Chattogram.	Sample Specimen : Length 600mm , Dia 12mm
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	0.472	0.473	0.175	0.599	0.599	19475.66	111098	110830	22827.63	130219	130866	1.17	11.5			
	12.00	12.025	113.097	0.891		86.63	766		101.54	898						
2	0.472	0.473	0.175	0.599	0.891	19878.17	113394	764	23040.45	131433	906	1.16	11.5			
	12.00	12.025	113.097	0.891		88.42	782		102.49	906						
3	0.472	0.473	0.175	0.599	0.891	18932.04	107997	745	22954.86	130945	903	1.21	12			
	12.00	12.025	113.097	0.891		84.21	745		102.11	903						

**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 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