



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).
 Name of Client : GE (Navy) South, Chattogram.
 Ref.Itr.No : CEN/214 of 2021-2022/16/E-6 Dt.18 Jan'2023
 Project Name : Construction of Over Ground Water Reservoir.
 Dt. of Sample Collection: 25 Jan'2023

Copy No : 05
 Sample Specimen : Length 600mm , Dia 22mm
 Sample Grade : 72.5
 Frog Mark : Golden Ispat B-500 CWR.

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	0.866 22.00	0.867 22.032	0.5892 380.1327	2.011 2.993	2.011 2.993	54778.85 243.67	92970 641	92019 635	67060.14 298.30	113814 785	113659 784	1.22	17.5	18		
2	0.866 22.00	0.867 22.032	0.5892 380.1327	2.011 2.993		54209.78 241.14	92005 635		67080.96 298.39	113850 785		1.24	17.5			
3	0.866 22.00	0.867 22.032	0.5892 380.1327	2.011 2.993		53666.16 238.72	91082 628		66764.04 296.98	113312 781		1.24	18.5			

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					
				psi (kg/cm2)	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