



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 72/2023-2024 (Steel).
 Name of Client : GE (Army) PMB.
 Ref.ltr.No : EinC/203 of 2022-2023/14/E-6 Dt.20 Sep'2023.
 Project Name : Construction of 5 x Security and Surveillance Post.
 Dt. of Sample Collection: 26 Sep'2023

Copy No : 03
 Sample Specimen : Length 600mm , Dia 16mm
 Sample Grade : 60
 Frog Mark : Purbachal B-420 DWR.

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 16.00	0.635 16.13	0.312 201.062	1.078 1.604	1.078 1.604	25822.47 114.86	82858 571	84174 581	33419.33 148.66	107235 740	109098 752	1.29	22	21								
2	0.630 16.00	0.635 16.13	0.312 201.062	1.078 1.604		26803.30 119.23	86005 593		26072.30 115.97	83660 577		34608.36 153.94	111050 766				109098 752	1.29	20			
3	0.630 16.00	0.635 16.13	0.312 201.062	1.078 1.604		26072.30 115.97	83660 577					33972.20 151.12	109009 752					1.30	21.5			

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.

Ovservation on Specimen(if any):

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