



## MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 41/2023-2024 (Steel).	Copy No : 01
Name of Client : AGE (Navy) Kaptai.	Sample Specimen : Length 600mm , Dia 10mm
Ref.ltr.No : CEN/160 of 2022-2023/10/E-6 Dt.03 Sep'2023.	Sample Grade : 60
Project Name : Construction of RCC Retaining Wall.	Frog Mark : Baizid B-420 DWR
Dt. of Sample Collection : 05 Sep'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	0.394 10.00	0.402 10.21	0.1217 78.5398	0.432 0.642	0.432 0.642	13321.42 59.26	109428 755	108845 751	16122.82 71.72	132440 913	131857 909	1.21	20		20	
2	0.394 10.00	0.402 10.21	0.1217 78.5398	0.432 0.642		13490.29 60.01	110815 764		16356.46 72.76	134359 927		1.21	19			
3	0.394 10.00	0.402 10.21	0.1217 78.5398	0.432 0.642		12939.73 57.56	106293 733		15676.35 69.73	128772 888		1.21	19.5			

**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	psi (kg/cm2)	psi (kg/cm2)	Grade	Mpa (kg/cm2)	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

