



## MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 75/2023-2024 (Steel).	Copy No : 05
Name of Client : GE (Army) PMB.	Sample Specimen : Length 600mm , Dia 25mm
Ref.ltr.No : EinC/178 of 2022-2023/10/E-6 Dt.02 Oct'2023.	Sample Grade : 60
Project Name : Construction of 1 x Bridge.	Frog Mark : Purbachal B-420 DWR.
Dt. of Sample Collection: 03 Oct'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 (Fult/Fy)	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		8inch	5d	8inch	5d
1	0.984 25.00	0.989 25.11	0.7609 490.8739	2.613 3.888	2.613 3.888	57338.80 255.05	75361 520	74896 517	74128.69 329.74	97428 672	96913 668	1.29	28.5		27	
2	0.984 25.00	0.989 25.11	0.7609 490.8739	2.613 3.888		56024.84 249.21	73634 508		72791.61 323.79	95671 660		1.30	27			
3	0.984 25.00	0.989 25.11	0.7609 490.8739	2.613 3.888		57590.94 256.18	75692 522		74290.62 330.46	97641 673		1.29	26			

**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 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)		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