

# MATERIAL TESTING LABORATORY

### **MILITARY ENGINEER SERVICES (MES)**

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

Job No : 10/2021-2022(Steel) Copy No. : 01

Name of Client : GE(Army) Chattogram. : Length 600 mm Dia 10mm

Ref Itr No : CEA/697 of 2019-2020/10/E-6 Dt.14 July'2021 Sample Grade : 60

Project Name : CEA/697 of 2019-2020 Date of Collection : Sunday, 18 July, 2021

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 Strength	Ultimate Load	Ultimate Strength	Average Ultimate Strength	% (g	gation Aver gauge Elong ngth) % (ga leng		gation gauge
	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	0.394 10	0.398 10.116	0.1217 78.5398	0.424 0.631		9785.98 43.53	80386 554		12569.13 55.91	103248 712		16.5			
2	0.394 10	0.398 10.116	0.1217 78.5398	0.424 0.631	0.424 0.631	9444.27 42.01	77579 535	79291 547	12333.08 54.86	101309 698	103710 715	17		16	
3	0.394 10	0.398 10.116	0.1217 78.5398	0.424 0.631		9727.53 43.27	79906 551		12973.79 57.71	106572 735		13.5			

### **Cautions:**

- 1. Samples as supplied to the laboratory have been tested. The laboratory authority does not bear any responsibility as to the representative charecter of the samples to be tested.
- 2. It is recommended that the samples are sent in a secure and sealed cover/packet/container under signature of the competent authority.
- 3. In order to avoid fraudulent fabrication of the test results, it is recommended that all test reports should be collected by duly authorized person and not by the contractor/supplier.

## **Observation on Specimen(if any):**

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Minimum Standard Requirements (BDS/ISO 6935-2:1991(E)				Minimum Standard Requirments(ASTM A615/A616M-96a)									
				ASTM A 615 M			ASTM A 615 M			ASTM A 615/A 615 M			
Grade	Y/strength	Ult.Str	Elongation	Grade	Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)			
	N/mm2 or Mpa	N/mm2 or Mpa	%		psi (kg/cm2)	psi (kg/cm2)		Mpa (kg/cm2)	Mpa (kg/cm2)	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		100
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

This is a computer genarated copy

No signature is required

: RSM B420 DWR

Note : [1 Mpa = 145 Psi, 1 kg/cm2 = 14.223 psi]

Laboratory Technichian

Test Performed By

Frog Mark

Vetted By