

## MATERIAL TESTING LABORATORY **MILITARY ENGINEER SERVICES (MES)**

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

Job No Name of Client Ref Itr No Project Name Date of Collection

: GE (Army) North, Dhaka. : CEA/357 of 2020-2021/11/E-6 Dt.13 July'2021. : CEA/357 of 2020-2021. : Thursday, 15 July, 2021

: 07/2021-2022(Steel).

Copy No.	: 04
Sample Specimen	: Length 600 m
Sample Grade	: 60
Frog Mark	: SAS B 400+

ngth 600 mm Dia 20mm

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 gauge gth)	Elong % (g	erage gation gauge gth)
	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	0.787 20	0.797 20.245	0.4869 314.1593	1.698 2.527		33442.74 148.76	68678 473		47034.75 209.22	96591 666		16.5			
2	0.787 20	0.797 20.245	0.4869 314.1593	1.698 2.527	1.698 2.527	31603.79 140.58	64902 447	67153 463	45998.37 204.61	94463 651	95531 659	23.5		20	
3	0.787 20	0.797 20.245	0.4869 314.1593	1.698 2.527		33053.81 147.03	67880 468		46522.18 206.94	95539 659		20			

## **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):**

1.

Minimu		Requiremer 2:1991(E)	nts (BDS/ISO	Minimum Standard Requirments(ASTM A615/A616M-96a) ASTM A 615 M ASTM A 615 M ASTM A 615/A 615 M										This is a computer genarated copy
Grade	Y/strength	Ult.Str	Elongation	Grade	Y/strength	Ult.Str	Grade	Y/strength			ongation in 8"(2		GL (%)	No signature is required
	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		×.	
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	

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

Test Performed By

Vetted By