

## 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 : 402/19-20(Steel).

: GE (Air) Chattogram.

: CE (Air)/253 of 2018-2019/27/E-6 Dt. 24 Feb'2020.

: CE (Air)/253 of 2018-2019.

: Thursday, 27 February, 2020

:	05
:	Ler
:	60
:	BS
	:

Length 600 mm Dia 20mm

60

**BSRM 420** 

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	Elong % (g leng	auge	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	0.783 19.895	0.4869 314.1593	1.64 2.441		33982.28 151.16	69786 481		47090.95 209.47	96707 667		25.5			
2	0.787 20	0.783 19.895	0.4869 314.1593	1.64 2.441	1.64 2.441	33746.23 150.11	69302 478	70062 483	47048.24 209.28	96619 666	96954 668	26.5		25	
3	0.787 20	0.783 19.895	0.4869 314.1593	1.64 2.441		34620.74 154	71098 490		47495.61 211.27	97538 672		22			

## **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. Diameter & Unit weight of 20 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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	1	115
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

This is a computer genarated copy No signature is required