

## 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) South, Dhaka. : 6000/Misc/24/E-6 Dt. 17 Aug'2021. : CEA/513 of 2020-2021. : Wednesday, 25 August, 2021

: 32/2021-2022 (Steel).

Copy No. Sample Specimen Sample Grade Frog Mark

: Length 600 mm Dia 20mm

: 60

: 04

: RSM B-420 DWR

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 Avera gauge Elonga ggth) % (gau lengt		gation auge
	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	0.791 20.08	0.4869 314.1593	1.671 2.486		32266.98 143.53	66264 457		43775 194.72	89897 620		23.5			
2	0.787 20	0.791 20.08	0.4869 314.1593	1.671 2.486	1.671 2.486	35387.34 157.41	72672 501	69122 477	45036.19 200.33	92487 638	91199 629	20.5		21	
3	0.787 20	0.791 20.08	0.4869 314.1593	1.671 2.486		33321.34 148.22	68429 472		44415.71 197.57	91213 629		19			

## **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	m Standard	Requiremer	nts (BDS/ISO	Minimum Standard Requirments(ASTM A615/A616M-96a)										
6935-2:1991(E)			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	Ult.Str	Minimum El	ongation in 8"(2	203.2 mm) (	GL (%)	No signature is required
	N/mm2 or	Contraction of the second	22.25	3	psi	psi		Mpa	Mpa	10	13,16,19 mm	22,25	29,32,36	
	Мра	Мра	%	· · · · · · · · · · · · · · · · · · ·	(kg/cm2)	(kg/cm2)		(kg/cm2)	(kg/cm2)	mm		mm	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