

## 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/23/E-6 Dt. 22 Aug'2021. : CEA/735 of 2020-2021. : Monday, 23 August, 2021

: 29/2021-2022(Steel).

Copy No.	: 01
Sample Specimen	: Length 600 n
Sample Grade	: 60
Frog Mark	: AKS 500 W

ngth 600 mm Dia 10mm

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	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	0.394 10	0.395 10.041	0.1217 78.5398	0.418 0.622		10208.62 45.41	83858 578		11798.03 52.48	96914 668		14			
2	0.394 10	0.395 10.041	0.1217 78.5398	0.418 0.622	0.418 0.622	10208.62 45.41	83858 578	84178 580	11921.67 53.03	97930 675	98133 677	15.5		14	
3	0.394 10	0.395 10.041	0.1217 78.5398	0.418 0.622		10325.52 45.93	84818 585		12119.51 53.91	99555 686		12.5			

## **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):**

1.

Minimum Standard Requirements (BDS/ISO Minimum Standard Requirments(ASTM A615/A616M-96a)																
	6935-	2:1991(E)			ASTM A 61	.5 M		ASTM A 61	5 M	AS	615/A	615 M		This is a computer genarated co		
Grade	Y/strength	Ult.Str	Elongation	Grade	Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)			GL (%)	No signature is required		
	N/mm2 or	and the second second	35275	3	psi	psi		Mpa	Mpa	10	13,16,19 mm	22,25	29,32,36			
	Мра	Mpa	%		(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