

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

: 6005/47/12/E-6 Dt. 05 September'2019. : EinC/193 of 2017-2018.

: GE (Air) Chattogram.

: 144/19-20(Steel).

: Wednesday, 11 September, 2019

Copy No.	: 02
Sample Specimen	: Lei
Sample Grade	: 60
Frog Mark	: Aŀ

- ength 600 mm Dia 12mm
- S F 88 200 M

•	Longar ooo min Dia 12m
:	60
•	AKS 500W

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	% (gauge E		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	0.472 12	0.472 11.982	0.1753 113.0973	0.595 0.885		15242.12 67.8	86948 599		17937.59 79.79	102325 705		15.5				
2	0.472 12	0.472 11.982	0.1753 113.0973	0.595 0.885	0.595 0.885	15084.75 67.1	86051 593	86063 593	17786.97 79.12	101465 700	101709 701	16.5		16		
3	0.472 12	0.472 11.982	0.1753 113.0973	0.595 0.885		14934.13 66.43	85191 587		17764.49 79.02	101337 699		14.5				

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.Diameter & Unit weight of 12mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

Minimum Standard Requirements (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			
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		
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