

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 414/19-20(Steel). Copy No. : 03

Name of Client : AGE (Army) Momenshahi. Sample Specimen : Length 600 mm Dia 16mm

Ref Itr No : CEA/260 of 2019-2020/05/E-6 Dt. 08 Mar'2020. Sample Grade : 60

Project Name : CEA/260 of 2019-2020. Frog Mark : AKS 500W
Date of Collection : Monday, 09 March, 2020

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)	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	0.63 16	0.629 15.972	0.3116 201.0619	1.057 1.573		23969.24 106.62	76912 530		29081.42 129.36	93316 643		19.5			
2	0.63 16	0.629 15.972	0.3116 201.0619	1.057 1.573	1.057 1.573	23753.42 105.66	76219 525	76164 525	28683.51 127.59	92039 635	92111 635	18		19	
3	0.63 16	0.629 15.972	0.3116 201.0619	1.057 1.573		23485.9 104.47	75361 520		28353.04 126.12	90978 627		19.5			

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 16 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

Minimu	m Standard	Requiremen	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				
Grade					Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)			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	

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No signature is required

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

Laboratory Technichian

Test Performed By

Vetted By