

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 169/19-20(Steel). Copy No. : 02

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

Ref Itr No : CEA/556 of 2018-2019/10/E-6 Dt.22 September'2019. Sample Grade : 60

Project Name : CEA/556 of 2018-2019. Frog Mark : Baizid 400+

Date of Collection : Wednesday, 25 September, 2019

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	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	0.634 16.094	0.3116 201.0619	1.073 1.597		20803.92 92.54	66755 460		32505.28 144.59	104302 719		22.5			
2	0.63 16	0.634 16.094	0.3116 201.0619	1.073 1.597	1.073 1.597	21114.16 93.92	67750 467	67272 464	32464.81 144.41	104172 718	104297 719	21.5		22	
3	0.63 16	0.634 16.094	0.3116 201.0619	1.073 1.597		20977.02 93.31	67310 464		32541.25 144.75	104417 720		21.5			

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 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	CONTRACTOR OF THE PARTY OF THE	32.8		psi	psi		Mpa	Mpa	10	13,16,19 mm	22,25	29,32,36
	Mpa	Mpa	%		(kg/cm2)	(kg/cm2)		(kg/cm2)	(kg/cm2)	mm	2	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

This is a computer genarated copy

No signature is required

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

Laboratory Technichian

Test Performed By

Vetted By