

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 265/2018-2019 (Steel). Copy No. : 03

Name of Client : GE(Army) Comilla. Sample Specimen : Length 600 mm Dia 16mm

Ref Itr No : CEA/ 317 of 2018-2019/03/E-6 Dt. 03 April 2019. Sample Grade : 60

Project Name : CEA/ 317 of 2018-2019. Frog Mark : BSRM 420
Date of Collection : Wednesday, 03 April, 2019

Actual Dia Area Under Yield or Yield or Elongation Sample Nominal Actual Unit Average Average Ultimate Ultimate Average Average No Test Weight Actual Ŭnit **Proof Load** Proof Yield or Load Ultimate Elongation Dia Strength % (gauge Weight Proof Strength Strength length) % (gauge Strength length) 8inch | 5d** 8inch | 5d** inch inch lb/ft lb/ft lb lb sq.inch psi psi psi psi mm mm sq.mm kg/m kg/m kn Mpa Mpa kn Mpa Мра 23.5 1 0.63 0.623 0.3116 1.037 21613.23 69352 31567.82 101294 16 15.817 201.0619 1.543 96.14 478 140.42 698 2 0.63 21550.29 30475.24 97788 100056 24 24 0.623 0.3116 1.037 1.037 69150 69297 477 690 16 15.817 201.0619 1.543 1.543 95.86 478 135.56 674 3 24 0.63 0.623 0.3116 1.037 21624.47 69388 31502.63 101085 16 15.817 201.0619 1.543 96.19 478 140.13 697

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.

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 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

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

Laboratory Technichian

Test Performed By

Vetted By