

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 300/2018-2019(Steel) Copy No. : 01

Name of Client : GE(Air)Chattogram. Sample Specimen : Length 600 mm Dia 10mm

Ref Itr No : 6005/22/E-6 Dt.30 April'2019 Sample Grade : 60

Project Name : Airmen Training Institute. Frog Mark : SAS 400+ Date of Collection : Thursday, 02 May, 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 length) Strength Strength % (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 1 0.394 0.394 0.1217 0.414 9003.64 73960 12256.64 100682 18 10 9.998 78.5398 0.616 40.05 510 54.52 694 2 23 21 0.394 0.394 0.1217 0.414 0.414 8915.96 73240 74563 12256.64 100682 101611 9.998 78.5398 10 0.616 0.616 39.66 505 514 54.52 694 701 3 22 0.394 0.394 0.1217 0.414 9311.63 76490 12596.1 103470 10 9.998 78.5398 0.616 41.42 527 56.03 713

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 10 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

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