MATERIAL TESTING LABORATORY
MILITARY ENGINEER SERVICES (MES)
TEST RESULTS FOR TENSILE STRENGTH OF PLAIN/DEFORMED/RIBBED COLD TWISTED M.S. BARS

Job No	: 402/19-20(Steel).	Copy No.	: 04
Name of Client	: GE (Air) Chattogram.	Sample Specimen	: Length 600 mm Dia 16mm
Ref Itr No	: CE (Air)/253 of 2018-2019/27/E-6 Dt. 24 Feb'2020.	Sample Grade	: 60
Project Name	: CE (Air)/253 of 2018-2019.	Frog Mark	: BSRM 420
Date of Collection	: Thursday, 27 February, 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	Elongation % (gauge length)		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	0.624 15.856	0.3116 201.0619	1.042 1.55		21523.31 95.74	69063 476		29850.27 132.78	95783 660		25.5			
2	0.63 16	0.624 15.856	0.3116 201.0619	1.042 1.55	1.042 1.55	21107.41 93.89	67729 467	67459 465	29656.94 131.92	95162 656	95169 656	25.5		25	
3	0.63 16	0.624 15.856	0.3116 201.0619	1.042 1.55		20439.73 90.92	65586 452		29470.34 131.09	94564 652		24.5			

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.

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