

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. : 06

Name of Client : GE (Air) Chattogram. Sample Specimen : Length 600 mm Dia 25mm

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	% (g	gation gauge gth)	Elong % (g	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	0.984 25	0.973 24.726	0.7609 490.8739	2.533 3.77		52596.55 233.96	69128 477		73058.75 324.98	96022 662		28				
2	0.984 25	0.973 24.726	0.7609 490.8739	2.533 3.77	2.533 3.77	52780.89 234.78	69371 478	69428 479	72921.62 324.37	95842 661	96053 662	27.5		28		
3	0.984 25	0.973 24.726	0.7609 490.8739	2.533 3.77	Î	53095.63 236.18	69784 481		73265.58 325.9	96294 664		28.5				

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

Minimu	m Standard I	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	strength Ult.Str Elongation Grade Y/strength		Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)			GL (%)		
	N/mm2 or	Control of the Contro	25-26		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		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