

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 122/19-20(Steel) Copy No. : 01

Name of Client : AGE (Air) Cox'sbazar. Sample Specimen : Length 600 mm Dia 10mm

Ref Itr No : CE Air/227 of 2017-2018/15/E-6 Dt. 04 September'2019. Sample Grade : 60

Project Name : CE Air/227 of 2017-2018 Frog Mark : Baizid 400+

Date of Collection : Thursday, 05 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	% (g	gation gauge gth)	Elong % (g	erage gation gauge gth)
	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	0.394 10	0.393 9.99	0.1217 78.5398	0.413 0.615		9338.61 41.54	76712 529		13272.78 59.04	109029 752		18.5			
2	0.394 10	0.393 9.99	0.1217 78.5398	0.413 0.615	0.413 0.615	8810.3 39.19	72372 499	74385 513	13295.26 59.14	109213 753	108795 750	19		18	
3	0.394 10	0.393 9.99	0.1217 78.5398	0.413 0.615		9017.13 40.11	74071 511		13164.87 58.56	108142 746		17.5			

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 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	rade Y/strength Ult.Str Elongation				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] Lab

Laboratory Technichian

Test Performed By

Vetted By