

MATERIAL TESTING LABORATORY MILITARY ENGINEER SERVICES (MES)

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

Job No Name of Client Ref Itr No Project Name Date of Collection

: 166/19-20(Steel). : AGE (Army) Momenshahi.

: CEA/659 of 2018-2019/04/E-6 Dt.22 September'2019.

: CEA/659 of 2018-2019.

: Monday, 23 September, 2019

Copy No.
Sample Specimen
Sample Grade
Frog Mark

: 01

: Length 600 mm Dia 10mm

: 60

: Purbachal 400

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	Elong % (g leng		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 9.971	0.1217 78.5398	0.412 0.613		8846.27 39.35	72667 501		12845.64 57.14	105520 727		19.5			
2	0.394 10	0.393 9.971	0.1217 78.5398	0.412 0.613	0.412 0.613	8810.3 39.19	72372 499	72341 499	12569.13 55.91	103248 712	103938 717	19.5		20	
3	0.394 10	0.393 9.971	0.1217 78.5398	0.412 0.613		8763.09 38.98	71984 496		12544.4 55.8	103045 710		19.5			

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	Y/strength	Ult.Str	Elongation	Grade	Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	r 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

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

Test Performed By

Vetted By

This is a computer genarated copy No signature is required