

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 166/19-20(Steel). Copy No. : 02

Name of Client : AGE (Army) Momenshahi. Sample Specimen : Length 600 mm Dia 12mm

Ref Itr No : CEA/659 of 2018-2019/04/E-6 Dt.22 September'2019. Sample Grade : 60

Project Name : CEA/659 of 2018-2019. Frog Mark : Purbachal 400

Date of Collection : Monday, 23 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)	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	0.472 12	0.473 12.002	0.1753 113.0973	0.597 0.888		12159.97 54.09	69366 478		17595.88 78.27	100375 692		22			
2	0.472 12	0.473 12.002	0.1753 113.0973	0.597 0.888	0.597 0.888	12353.31 54.95	70469 486	69892 482	17616.11 78.36	100491 693	100328 692	22.5		23	
3	0.472 12	0.473 12.002	0.1753 113.0973	0.597 0.888		12243.15 54.46	69841 481		17550.92 78.07	100119 690		23.5			

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.

Minimu	m Standard	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	Ult.Str	Elongation	ongation Grade Y/strength Ult.Str Grade				Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)				
	N/mm2 or	Control of the Contro	2000		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)	1000	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