

Sample | Nominal

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

: 36/2021-2022(Steel) Copy No. Job No : 04

Name of Client : AGE (Army) Jahanabad. Sample Specimen : Length 600 mm Dia 20mm

Yield or

Sample Grade Ref Itr No : 6000/Test/07/E-6 Dt. 25 Aug'2021. : 60

Project Name : EinC/172 of 2020-2021. Date of Collection : Sunday, 29 August, 2021

Actual Dia | Area Under | Actual Unit | Average

rerage eld or roof ength	Ultimate Load	Ultimate Strength	Average Ultimate Strength	Elong % (g leng	auge	Average Elongation % (gauge length)		
psi Mpa	lb kn	psi Mpa	psi Mpa	8inch	5d**	8inch	5d**	
	50876.75 226.31	104481 720		23.5				

: Purbachal B-420 DWR.

Frog Mark

No	Dia		Test	Weight	Actual Unit Weight	Proof Load	Proof Strength	Yield or Proof Strength	Load	Strength	Ultimate Strength	% (g	auge gth)	Elong % (g	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	0.787 20	0.787 19.992	0.4869 314.1593	1.656 2.465		34218.33 152.21	70271 484		50876.75 226.31	104481 720		23.5			
2	0.787 20	0.787 19.992	0.4869 314.1593	1.656 2.465	1.656 2.465	34220.58 152.22	70276 484	70653 487	51198.23 227.74	105141 725	105144 725	20		22	
3	0.787 20	0.787 19.992	0.4869 314.1593	1.656 2.465		34773.61 154.68	71412 492		51524.2 229.19	105811 729		22.5			

Yield or

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 20 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