



MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 88/2020-2021(Steel).
 Name of Client : AGE (Air) PKP.
 Ref Itr No : CE (Air)/183 of 2019-2020/14/E-6 Dt. 22 Sept'2020.
 Project Name : CE (Air)/183 of 2019-2020.
 Date of Collection : Wednesday, 23 September, 2020

Copy No. : 03
 Sample Specimen : Length 600 mm Dia 16mm
 Sample Grade : 60
 Frog Mark : RSM B-420 DWR

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	Elongation % (gauge length)		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	0.63 16	0.634 16.099	0.3116 201.0619	1.074 1.598	1.074 1.598	21399.66 95.19	68667 473	69018 476	30578.66 136.02	98120 676	98127 676	14.5		16	
2	0.63 16	0.634 16.099	0.3116 201.0619	1.074 1.598		22098.82 98.3	70910 489		31136.19 138.5	99909 689		14.5			
3	0.63 16	0.634 16.099	0.3116 201.0619	1.074 1.598		21028.73 93.54	67476 465		30027.87 133.57	96353 664		19			

Cautions:

1. Samples as supplied to the laboratory have been tested. The laboratory authority does not bear any responsibility as to the representative character 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.

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E))				Minimum Standard Requirements (ASTM A615/A616M-96a)										
Grade	Y/strength N/mm2 or Mpa	Ult.Str N/mm2 or Mpa	Elongation %	ASTM A 615 M		ASTM A 615 M		ASTM A 615/A 615 M						
				Grade	Y/strength psi (kg/cm2)	Ult.Str psi (kg/cm2)	Grade	Y/strength Mpa (kg/cm2)	Ult.Str Mpa (kg/cm2)	Minimum Elongation in 8"(203.2 mm) GL (%)				
300	300	330	16	40	40000(2810)	70000(4910)	300	300(3050)	500(5090)	10	11	13,16,19	22,25	29,32,36
400/400w	400	440	14	60	60000(4210)	90000(6310)	420	420(4275)	620(6295)	mm	9	9	8	7
500/500w	500	550	14	75	75000(5255)	100000(7015)	520	520(5275)	690(7010)	mm	..	7	7	6

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No signature is required

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

Test Performed By

Vetted By