



MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 411/19-20(Steel).
 Name of Client : GE (Air) Chattogram.
 Ref Itr No : 6005/62/14/E-6 Dt. 01 Mar'2020.
 Project Name : CE (Air)/76 of 2018-2019.
 Date of Collection : Thursday, 05 March, 2020

Copy No. : 01
 Sample Specimen : Length 600 mm Dia 10mm
 Sample Grade : 60
 Frog Mark : GPH 500+

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	0.394 10	0.393 9.982	0.1217 78.5398	0.413 0.614	0.413 0.614	9851.17 43.82	80922 558	82621 570	12119.51 53.91	99555 686	98786 681	16.5		16	
2	0.394 10	0.393 9.982	0.1217 78.5398	0.413 0.614		10365.99 46.11	85151 587		12117.26 53.9	99537 686		18.5			
3	0.394 10	0.393 9.982	0.1217 78.5398	0.413 0.614		9956.83 44.29	81790 564		11840.74 52.67	97265 671		11.5			

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. 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 Requirements (ASTM A615/A616M-96a)									
Grade	Y/strength	Ult.Str	Elongation	ASTM A 615 M			ASTM A 615 M			ASTM A 615/A 615 M			
	N/mm2 or Mpa	N/mm2 or Mpa	%	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	13,16,19	22,25	29,32,36
400/400w	400	440	14	60	60000(4210)	90000(6310)	420	420(4275)	620(6295)	mm	mm	mm	mm
500/500w	500	550	14	75	75000(5255)	100000(7015)	520	520(5275)	690(7010)	11	12
										9	9	8	7
										..	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