



MATERIAL TESTING LABORATORY
MILITARY ENGINEER SERVICES (MES)

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

Job No : 206/14-15
 Name of Client : AGE(Army) Cox's bazar
 Ref Itr No : DW&CE(AIR)/140 of 2013-14/37/E-6
 dt.21/5/2015
 Project Name : DW&CE(AIR)/140 of 2013-14
 Date of Collection : Sunday, May 24, 2015

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 Sample Specimen : Length 600 mm Dia 10mm
 Sample Grade : 60
 Frog Mark : BSRM 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	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	0.392 9.965	0.1217 78.5398	0.411 0.612	0.411 0.612	8679.91 38.61	71301 492	71301 492	11141.58 49.56	91522 631	97382 671	16.5		16	
2	0.394 10	0.392 9.965	0.1217 78.5398	0.411 0.612		8679.91 38.61	71301 492		12211.68 54.32	100312 692		15			
3	0.394 10	0.392 9.965	0.1217 78.5398	0.411 0.612		8679.91 38.61	71301 492		12211.68 54.32	100312 692		15			

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.
- 2.

This is a computer generated copy
No signature is required

Laboratory Technician

Test Performed By

Vetted By

Permissible Value:

1. For 40 grade deformed bar minimum yield strength, $f_y=40,000$ psi and for 60 grade, $f_y=60,000$ psi.
2. Minimum percentage of elongation in 8" gauge length for 40 grade deformed bar, for bar no. 3= 11% and for others =12%
3. Minimum percentage of elongation in 8" gauge length for 60 grade deformed bar, for bar no. 3 to 6 = 9% ,bar no 7 to 8 = 8% and for others = 7%

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