

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

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

Job No : 62/2020-2021(Steel). Copy No. : 03

Name of Client : AGE (Air) Cox's Bazar. Sample Specimen : Length 600 mm Dia 20mm

Ref Itr No : CE Air/172 of 2019-2020/15/E-6 Dt. 06 Sept'2020. Sample Grade : 60

Project Name : CE Air/172 of 2019-2020. Frog Mark : Baizid 500+

Date of Collection : Wednesday, 09 September, 2020

| 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) | Elong | auge |
|--------------|----------------|-----------------|--------------------|-----------------------|----------------------------------|------------------------|-------------------------------|--|--------------------|----------------------|---------------------------------|-------|-------------------------|-------|------|
| | 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 | 0.794 20.177 | 0.4869 314.1593 | 1.687 2.51 | | 32977.38 146.69 | 67723 467 | | 54682.78 243.24 | 112297 774 | | 22.5 | | | |
| 2 | 0.787 20 | 0.794 20.177 | 0.4869 314.1593 | 1.687 2.51 | 1.687 2.51 | 33056.06 147.04 | 67884 468 | 67032 462 | 51434.28 228.79 | 105626 728 | 108171 746 | 20.5 | | 22 | |
| 3 | 0.787 20 | 0.794 20.177 | 0.4869 314.1593 | 1.687 2.51 | | 31889.3 141.85 | 65488 451 | | 51904.13 230.88 | 106591 735 | | 21.5 | | | |

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.

| 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 | CONTRACTOR CONTRACTOR | 32.8 | | 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 | 2 | 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) | | 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