



## MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 93/2023-2024 (Steel).	Copy No : 04
Name of Client : AGE (Air) PKP.	Sample Specimen : Length 600mm , Dia 20mm
Ref.ltr.No : EinC/442 of 2022-2023/13/E-6 Dt.22 Oct'2023.	Sample Grade : 60
Project Name : Construction of 1 X Administrative Building.	Frog Mark : Golden Ispat B-400 DWR.
Dt. of Sample Collection: 23 Oct'2023	

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 load	Ultimate load	Ultimate Strength	Average Ultimate Strength	Ratio	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	(Fult/Fy)	8inch	5d	8inch	5d
1	0.787 20.00	0.787 20.00	0.4869 314.1593	1.657 2.465	1.657 2.465	39424.64 175.37	80963 558	82116 566	55344.74 246.18	113656 784	114103 787	1.40	21.5		21	
2	0.787 20.00	0.787 20.00	0.4869 314.1593	1.657 2.465		39773.95 176.92	81680 563		55231.38 245.68	113424 782		1.39	19			
3	0.787 20.00	0.787 20.00	0.4869 314.1593	1.657 2.465		40759.41 181.31	83704 577		56110.44 249.59	115229 795		1.38	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 charecture of the samples to be tested.
2. It is recommended that samples are Sent in asecuried and sealed cover/packet/container under signature of the competent authority.
3. In order to avoid fraudulent of the test results,it is recommended that all test reports should be collected by duly authorised person and not by contractor/supplier.

Oservation on Specimen(if any):

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

Laboratory Technician

Test Performed By

Vetted By