



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 : 105(D)/2025-2026 (Steel).

Copy No : 01

Name of Client : AGE (Army) Momenshahi.

Sample Specimen : Length 600mm , Dia 10mm

Ref.ltr.No : CEA/280 of 2022-2023/23/E-6 Dt.02 Nov'2025.

Sample Grade : 60

Project Name : Construction of 1 x 50 BOQ & Officer's Mess Complex.

Frog Mark : SCRM B-420 DWR.

Dt. of Sample Collection : 03 Nov'2025

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	0.394 10.00	0.396 10.05	0.1217 78.5398	0.418 0.622	0.418 0.622	14711.71 65.44	120848 833	120012 828	17078.21 75.97	140288 968	140053 966	1.16	21		19	
2	0.394 10.00	0.396 10.05	0.1217 78.5398	0.418 0.622		14559.03 64.76	119594 825		16971.80 75.49	139414 961		1.17	18			
3	0.394 10.00	0.396 10.05	0.1217 78.5398	0.418 0.622		14559.03 64.76	119594 825		17099.03 76.06	140459 969		1.17	18			

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.

Ovservation 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

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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 : 105(D)/2025-2026 (Steel).

Copy No : 02

Name of Client : AGE (Army) Momenshahi.

Sample Specimen : Length 600mm , Dia 12mm

Ref.ltr.No : CEA/280 of 2022-2023/23/E-6 Dt.02 Nov'2025.

Sample Grade : 60

Project Name : Construction of 1 x 50 BOQ & Officer's Mess Complex.

Frog Mark : SCRM B-420 DWR.

Dt. of Sample Collection: 03 Nov'2025

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	0.472 12.00	0.478 12.14	0.175 113.097	0.611 0.909	0.611 0.909	16641.00 74.02	94928 655	93639 646	22405.73 99.67	127813 881	127492 879	1.35	22		22	
2	0.472 12.00	0.478 12.14	0.175 113.097	0.611 0.909		16409.67 72.99	93608 646		22174.40 98.64	126493 872		1.35	21.5			
3	0.472 12.00	0.478 12.14	0.175 113.097	0.611 0.909		16194.53 72.04	92381 637		22468.19 99.94	128169 884		1.39	23			

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.

Ovservation on Specimen(if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E))				Minimum Standard Requirements(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

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Page no: 445

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

Job No : 105(D)/2025-2026 (Steel).

Copy No : 03

Name of Client : AGE (Army) Momenshahi.

Sample Specimen : Length 600mm , Dia 16mm

Ref.ltr.No : CEA/280 of 2022-2023/23/E-6 Dt.02 Nov'2025.

Sample Grade : 60

Project Name : Construction of 1 x 50 BOQ & Officer's Mess Complex.

Frog Mark : SCRM B-420 DWR.

Dt. of Sample Collection: 03 Nov'2025

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	0.630 16.00	0.637 16.17	0.312 201.062	1.084 1.613	1.084 1.613	26278.18 116.89	84320 582	83994 579	36646.37 163.01	117590 811	117466 810	1.39	23.5		23	
2	0.630 16.00	0.637 16.17	0.312 201.062	1.084 1.613		26125.51 116.21	83831 578		36667.19 163.10	117656 811		1.40	22.5			
3	0.630 16.00	0.637 16.17	0.312 201.062	1.084 1.613		26125.51 116.21	83831 578		36509.89 162.40	117152 808		1.40	23			

Cautions:

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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.

Ovservation on Specimen(if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E)				Minimum Standard Requirments(ASTM A615/A616M-96a)									
Grade	Y/strength	Ult.Str	Elongation	Grade	ASTM A 615 M		Grade	ASTM A 615 M		ASTM A 615/A 615 M			
	N/mm2 or Mpa	N/mm2 or Mpa	%		psi (kg/cm2)	psi (kg/cm2)		psi (kg/cm2)	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 mm	13,16,19 mm	22,25 mm	29,32,36 mm
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

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