



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 : 55/2024-2025 (Steel).

Name of Client : GE (Navy) Dhaka.

Ref.ltr.No : 6000/Naval CW & MC/42/E-6/ Dt.02 Feb'2025.

Project Name : Construction of CW & MC and Multipurpose complex.

Dt. of Sample Collection : 03 Feb'2025

Copy No : 01

Sample Specimen : Length 600mm , Dia 10mm

Sample Grade : 72.5

Frog Mark : BSRM B-500 DWR.

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	0.394 10.02	0.1217 78.5398	0.416 0.619	0.416 0.619	15156.53 67.42	124502 859	124822 861	18260.28 81.23	149998 1034	150192 1036	1.20	16.5		16	
2	0.394 10.00	0.394 10.02	0.1217 78.5398	0.416 0.619		15257.32 67.87	125330 864		18310.67 81.45	150412 1037		1.20	16.5			
3	0.394 10.00	0.394 10.02	0.1217 78.5398	0.416 0.619		15172.57 67.49	124634 860		18280.90 81.32	150167 1036		1.20	15.5			

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.

Ovservation on Specimen(if any):

Minimum Standard Requirements (BDS/ISO 6935-2:1991(E)				Minimum Standard Requirments(ASTM A615/A616M-96a)									
Grade	Y/strength N/mm2 or Mpa	Ult.Str N/mm2 or Mpa	Elongation %	ASTM A 615 M		ASTM A 615 M		ASTM A 615/A 615 M					
				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 (%)			
										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

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

Job No : 55/2024-2025 (Steel).

Copy No : 02

Name of Client : GE (Navy) Dhaka.

Sample Specimen : Length 600mm , Dia 12mm

Ref.ltr.No : 6000/Naval CW & MC/42/E-6/ Dt.02 Feb'2025.

Sample Grade : 72.5

Project Name : Construction of CW & MC and Multipurpose complex.

Frog Mark : BSRM B-500 DWR.

Dt. of Sample Collection: 03 Feb'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	0.000 0.00	0.175 113.097	0.000 0.000	0.000 0.000	17273.04 76.83	98533 680	100337 692	21192.24 94.27	120890 834	122611 846	1.23	19		20	
2	0.472 12.00	0.000 0.00	0.175 113.097	0.000 0.000		18136.59 80.68	103460 714		21938.97 97.59	125150 863		1.21	18.5			
3	0.472 12.00	0.000 0.00	0.175 113.097	0.000 0.000		17357.79 77.21	99017 683		21350.29 94.97	121792 840		1.23	22			

Cautions:

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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	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 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

Laboratory Technician

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