



MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 95/2025-2026 (Steel).

Copy No : 00

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 08mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection: 04 Jan'2026

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	0.315	0.000	0.0779	0.000	0.000	-2381.19	-30563	-30563	-2381.19	-30563	-30563	1.00	0		6	
	8.00	0.00	50.2655	0.000		-10.592	-211		-10.592	-211						
2	0.315	0.000	0.0779	0.000	0.000	-2381.19	-30563	-211	-2381.19	-30563	-211	1.00	0			
	8.00	0.00	50.2655	0.000		-10.592	-211		-10.592	-211						
3	0.315	0.000	0.0779	0.000	0.000	-2381.19	-30563	-211	-2381.19	-30563	-211	1.00	17.5			
	8.00	0.00	50.2655	0.000		-10.592	-211		-10.592	-211						

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):

1. Diameter & Unit weight of 22 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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

Job No : 95/2025-2026 (Steel).

Copy No : 01

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 10mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection : 04 Jan'2026

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	0.392 9.94	0.1217 78.5398	0.410 0.610	0.410 0.610	12971.13 57.70	106550 735	104640 722	14885.52 66.21	122276 843	123907 855	1.15	17.5	18		
2	0.394 10.00	0.392 9.94	0.1217 78.5398	0.410 0.610		13124.66 58.38	107812 744		15439.13 68.68	126824 875		1.18	17			
3	0.394 10.00	0.392 9.94	0.1217 78.5398	0.410 0.610		12119.78 53.91	99557 687		14927.39 66.40	122620 846		1.23	18.5			

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):

1. Diameter & Unit weight of 10 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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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 : 95/2025-2026 (Steel).

Copy No : 02

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 12mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection: 04 Jan'2026

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	15020.43 66.81	85684 591	85661 591	19600.54 87.19	111811 771	111731 771	1.30	18.5	19		
2	0.472 12.00	0.000 0.00	0.175 113.097	0.000 0.000		15039.04 66.90	85790 592		19621.48 87.28	111930 772		1.30	20			
3	0.472 12.00	0.000 0.00	0.175 113.097	0.000 0.000		14990.20 66.68	85511 590		19537.74 86.91	111452 769		1.30	18.5			

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):

1. Diameter & Unit weight of 12 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

Page no: 0

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

Job No : 95/2025-2026 (Steel).

Copy No : 03

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 16mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 60

Project Name : Construction of RCC Block.

Frog Mark : BSRM 420 D.

Dt. of Sample Collection: 04 Jan'2026

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	0.000	0.312	0.000	0.000	23971.30	76918	76928	32661.65	104803	104714	1.36	23		23	
	16.00	0.00	201.062	0.000		106.63	530		145.29	723						
2	0.630	0.000	0.312	0.000	0.000	23996.89	77000	531	32661.65	104803	722	1.36	23.5		23	
	16.00	0.00	201.062	0.000		106.74	531		145.29	723						
3	0.630	0.000	0.312	0.000	0.000	23955.02	76866	530	32577.91	104535	721	1.36	22		23	
	16.00	0.00	201.062	0.000		106.56	530		144.91	721						

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):

1. Diameter & Unit weight of 16 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

Page no: 0

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

Job No : 95/2025-2026 (Steel).

Copy No : 04

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 20mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 60

Project Name : Construction of RCC Block.

Frog Mark : BSRM 420 D.

Dt. of Sample Collection: 04 Jan'2026

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	0.000	0.4869	0.000	0.000	37337.12	76676	76792	50675.03	104067	103979	1.36	22.5			
	20.00	0.00	314.1593	0.000		166.08	529		225.41	718						
2	0.787	0.000	0.4869	0.000	0.000	37230.12	76456	530	50440.10	103584	717	1.35	22.5		24	
	20.00	0.00	314.1593	0.000		165.61	527		224.37	714						
3	0.787	0.000	0.4869	0.000	0.000	37613.93	77244	533	50782.04	104286	719	1.35	27			
	20.00	0.00	314.1593	0.000		167.31	533		225.89	719						

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):

1. Diameter & Unit weight of 20 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 95/2025-2026 (Steel).

Copy No : 00

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 22mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection: 28 Aug'2025

Sample No	Nominal Dia	Actual Dia	Area Under Test	Actual Unit Weight	Average Actual Weight	Yield or Proof load	Yield or Proof Strength	Average Yield or Proof load	Ultimate load	Ultimate Strength	Average Ultimate Strength	Ratio (Fult/Fy)	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	0.866	0.000	0.5892	0.000	0.000	56069.28	95161	95347	77778.86	132006	131790	1.39	22		25	
	22.00	0.00	380.1327	0.000		249.41	656		345.98	910						
2	0.866	0.000	0.5892	0.000	0.000	56355.39	95646	658	77736.99	131935	909	1.38	26.5			
	22.00	0.00	380.1327	0.000		250.68	660		345.79	910						
3	0.866	0.000	0.5892	0.000	0.000	56113.48	95236	657	77439.25	131430	906	1.38	27.5			
	22.00	0.00	380.1327	0.000		249.60	657		344.47	906						

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 samples are sent in a secured and sealed cover/packet/container under signature of the competent authority.
3. In order to avoid fraudulent test results, it is recommended that all test reports should be collected by a duly authorized person and not by a contractor/supplier.

Observation on Specimen (if any):

1. Diameter & Unit weight of 22 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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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 : 95/2025-2026 (Steel).

Copy No : 05

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 25mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 60

Project Name : Construction of RCC Block.

Frog Mark : BSRM 420 D.

Dt. of Sample Collection: 04 Jan'2026

Sample No	Nominal Dia	Actual Dia	Area Under Test	Actual Unit Weight	Average Actual 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	0.984 25.00	0.000 0.00	0.7609 490.8739	0.000 0.000	0.000 0.000	57723.14 256.76	75866 523	75543 521	77674.18 345.51	102088 704	101923 703	1.35	29.5		28							
2	0.984 25.00	0.000 0.00	0.7609 490.8739	0.000 0.000		57509.14 255.81	75585 521		77588.12 345.13	101975 703			101923 703				1.35	28				
3	0.984 25.00	0.000 0.00	0.7609 490.8739	0.000 0.000		57199.77 254.44	75178 518		77383.42 344.22	101706 701			101706 701				1.35	26.5				

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 samples are sent in a secured and sealed cover/packet/container under signature of the competent authority.
3. In order to avoid fraudulent test results, it is recommended that all test reports should be collected by a duly authorized person and not by contractor/supplier.

Observation on Specimen (if any):

1. Diameter & Unit weight of 25 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

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

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MATERIALS TESTING LABORATORY MILITARY ENGINEER SERVICES(MES)

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

Job No : 95/2025-2026 (Steel).

Copy No : 04

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 28mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection: 28 Aug'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	1.102 28.00	0.000 0.000	0.9544 615.7522	0.000 0.000	0.000 0.000	-2381.19 -10.59	-2495 -17	-2495 -17	-2381.19 -10.59	-2495 -17	-2495 -17	1.00	0		0		
2	1.102 28.00	0.000 0.000	0.9544 615.7522	0.000 0.000		-2381.19 -10.59	-2495 -17		-2381.19 -10.59	-2495 -17		-2495 -17	1.00	0			
3	1.102 28.00	0.000 0.000	0.9544 615.7522	0.000 0.000		-2381.19 -10.59	-2495 -17		-2381.19 -10.59	-2495 -17		-2495 -17	1.00	0			

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):

1

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

Vetted By





MILITARY ENGINEER SERVICES(MES)

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

Job No : 95/2025-2026 (Steel).

Copy No : 08

Name of Client : AGE (Navy) Kaptai.

Sample Specimen : Length 600mm , Dia 28mm

Ref.ltr.No : CEN/71 of 2025-2026/08/E-6 Dt.01 Jan'2026.

Sample Grade : 72.5

Project Name : Construction of RCC Block.

Frog Mark : AKS B-5000 DWR.

Dt. of Sample Collection: 24 Aug '2022

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 (Fult/Fy)	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	1.260 32.00	0.315 8.000	0.078 50.250	0.265 0.395	0.265 0.395	-2381.21 -10.59208	-30572 -211	-54100 -373	-5129.94 -22.819	-65863 -454	-65863 -454	2.15	0		0	
2	1.260 32.00	0.315 8.000	0.078 50.250	0.265 0.395		-5129.94 -22.819	-65863 -454		-5129.94 -22.819	-65863 -454		1.00	0			
3	1.260 32.00	0.315 8.000	0.078 50.250	0.265 0.395		-5129.94 -22.819	-65863 -454		-5129.94 -22.819	-65863 -454		1.00	0			

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):

1

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 Elongam in 8" (203.2 mm) GL (%)					
	N/mm ² or Mpa	N/mm ² or Mpa			psi (kg/cm ²)	psi (kg/cm ²)		Mpa (kg/cm ²)	Mpa (kg/cm ²)	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

Table-1

Bar	Ylt	Ult	E-%
8			
10	66	74.23	17.5
	66.66	76.61	17
	62.34	74.41	18.5
12	74.81	94.5	18.5
	74.89	94.59	20
	74.68	94.23	18.5
16	113.29	150.65	23
	113.4	150.65	23.5
	113.22	150.29	22
20	170.75	228.09	22.5
	170.29	227.08	22.5
	171.94	228.55	27
22	251.28	344.61	22
	252.51	344.43	26.5
	251.47	343.15	27.5
25	258.39	344.16	29.5
	257.47	343.79	28
	256.14	342.91	26.5
28			

Table-2

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1	8	: 00	0
2	10	: 01	533
3	12	: 02	0
4	16	: 03	0
5	20	: 04	0
6	22	: 00	0
7	25	: 05	0

