

Test Performed by: S. Asad Ali Gillani

AF Steel Re Rolling Mills  
Lahore.

Client Reference No.: AFS/G-Letter# 2808-1

Dated: 28-08-2024

SOM Lab Ref: CED/SOM/4725 (Page 1/1)

Dated: 03-09-2024

Test Type: Tensile Test

Sample Type: Nut Bolts

Test Specification: ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation	Remarks
1	Nut Bolts (M20x75)	13.2	121.2	886.1	20.0	Samples Breaks at this Load
2	Nut Bolts (M20x75)	12.8	109.2	849.0	20.0	Samples Breaks at this Load
3	Nut Bolts (M16x65)	12.0	102.7	908.5	20.0	Samples Breaks at this Load
4	Nut Bolts (M16x65)	12.0	103.0	911.2	20.0	Samples Breaks at this Load
5	Nut Bolts (M12x50)	8.9	53.7	863.6	26.6	Samples Breaks at this Load
6	Nut Bolts (M16x50)	8.7	59.5	1001.4	26.6	Samples Breaks at this Load

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed by: S. Asad Ali Gillani

Muhammad Irshad  
Dy Dir Dev DHA Gujranwala  
(Sports Arena & Family Park Villas Space)

Client Ref.No.: 111/3/DD/Dev/ESAC-06/112

Dated: 21-08-2024

SOM Lab Ref: CED/SOM/4729 (Page 1/3)

Dated: 03-09-2024

Test Type: Tensile Test & Bend Test

Specification: ASTM A-36

Sample Type: MS Sections

Gauge Length: 2 inches

### Tensile Test Results

Sr. No.	Sample Type	Size of strip (mm)	X Section Area (mm <sup>2</sup> )	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	MS Pole (Dia 6")	23.0 x 3.20	73.60	22.90	31.00	311.14	421.20	0.40	20.00
2	Box Pipe (2"x2")	27.3 x 1.50	40.95	12.00	15.70	293.04	383.39	0.40	20.00
3	Box Pipe (1.5"x1.5")	25.2 x 1.60	40.32	11.00	14.50	272.82	359.62	0.50	25.00
4	Box Pipe (1"x1")	12.7 x 1.60	20.32	5.00	7.20	246.06	354.33	0.40	20.00
5	MS Pole (Dia 6") strip sample, Bend through 180 degrees satisfactorily without any crack								
6	Box Pipe (2"x2") strip sample, Bend through 180 degrees satisfactorily without any crack								
7	Box Pipe (1.5"x1.5") strip sample, Bend through 180 degrees satisfactorily without any crack								
8	Box Pipe (1"x1") strip sample, Bend through 180 degrees satisfactorily without any crack								

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed by: S. Asad Ali Gillani

Muhammad Irshad  
Dy Dir Dev DHA Gujranwala  
(Sports Arena & Family Park Villas Space)

Client Ref.No.: 111/3/DD/Dev/ESAC-06/112

Dated: 21-08-2024

SOM Lab Ref: CED/SOM/4729 (Page 2/3)

Dated: 03-09-2024

Test Type: Unit Weight Test (MS Pole)

**Weight and Size Test**

Sr. No.	Sample Type	Weight (g)	Length (cm)	Weight per Unit Area (Kg/m)	External Dia (mm)	Internal Dia (mm)	Wall Thickness (mm)
1	MS Pole (Dia 6")	3560	31.0	11.48	170.0	163.6	3.2

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed by: S. Asad Ali Gillani

Muhammad Irshad  
Dy Dir Dev DHA Gujranwala  
(Sports Arena & Family Park Villas Space)

Client Ref.No.: 111/3/DD/Dev/ESAC-06/112

Dated: 21-08-2024

Test Type: Unit Weight Test

**Weight and Size Test**

<b>Sr. No.</b>	<b>Sample Type</b>	<b>Weight (g)</b>	<b>Length (cm)</b>	<b>Weight per Unit Area (Kg/m)</b>	<b>X1 (mm)</b>	<b>X2 (mm)</b>	<b>Wall Thickness (mm)</b>
2	Box Pipe (2"x2")	1486	62.5	2.37	50.2	50.0	1.5
3	Box Pipe (1.5"x1.5")	574	30.5	1.88	37.9	37.8	1.6
4	Box Pipe (1"x1")	336	30.7	1.09	25.2	25.0	1.6

**Note:** Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Executive Engineer (B&W)

Test Performed By:

Dr. /Engr.

Nauman Khurram

UVAS,Lahore.(Construction Of Academic Block For IPS at City Campus,Lahore)

Client Reference: E.E 892

SOM Lab

4726 (Page-

Ref:

1/2)

Dated: 08-03-2024

Dated:

03-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Moiz Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.475	6	0.743	0.44	0.433	12.76	18.78	63970	65010	94120	95640	1.40	8.0	17.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Executive Engineer (B&W)

Test Performed By:

Dr. /Engr.

Nauman Khurram

UVAS,Lahore.(Construction Of Academic Block For IPS at City Campus,Lahore)

Client Reference: E.E 891

SOM Lab

4726 (Page-

Ref:

2/2)

Dated: 08-03-2024

Dated:

03-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.559	8	0.979	0.79	0.752	23.39	32.21	65310	68610	89930	94470	1.50	8.0	18.8	
2	0.668	4	0.500	0.20	0.196	6.65	8.46	73290	74790	93300	95200	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Arfan Asif

Test Performed By: Dr. /Engr. Yousaf

ER NESPAK Lhr.(Const Of Green Building for EMC,EPD and Allied` New Entities Estb Under PGDP)

Client Reference: 4731/MAA/03/89

SOM Lab

Ref: 4727 (P-1/1)

Dated: 03-09-2024

Dated: 03-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.469	6	0.742	0.44	0.432	14.73	19.18	73830	75200	96160	97940	1.30	8.0	16.3	
2	1.487	6	0.746	0.44	0.437	14.63	19.16	73320	73830	96060	96720	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	6.09	9.17	67110	68830	101170	103760	1.20	8.0	15.0	
4	0.665	4	0.498	0.20	0.195	6.14	9.23	67670	69410	101730	104340	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Premier Builders

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Procurement Manager .(Lyallpur Galleria-3 Near Nally Wala Pull Canal Road,FSD)

Client Reference: LG-3/007

SOM Lab

4728 (Page-

Ref:

1/1)

Dated: 02-09-2024

Dated:

03-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.506	6	0.751	0.44	0.443	12.69	20.18	63620	63180	101170	100480	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



Engineer Muhammad Irshad  
Dy Dir Dev. DHA Gujranwala.(8 Marla Comm Plaza)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 111/3/DD/Dev/08 Marla Plaza/38

SOM Lab 4730 (Page-1/1)  
Ref: 1/1

Dated: 03-09-2024

Dated: 03-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615  
Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.660	8	0.998	0.79	0.782	24.92	37.07	69580	70290	103500	104560	1.20	8.0	15.0	Siraj
2	2.655	8	0.997	0.79	0.780	26.42	37.97	73770	74710	106010	107370	1.10	8.0	13.8	Siraj
3	0.672	4	0.501	0.20	0.197	6.29	8.20	69360	70410	90380	91750	1.00	8.0	12.5	Sheikhoo
4	0.666	4	0.500	0.20	0.196	6.14	8.02	67670	69050	88470	90270	1.00	8.0	12.5	Sheikhoo
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional officer,  
 BSD No.9,Lhr.(Estb Of Safe City Girls Hostel at Lahore)

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** 438 / 9Th

**SOM Lab Ref:** 4731 (Page-1/1)

**Dated:** 22-07-2024

**Dated:** 03-09-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Aziz Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.675	8	1.000	0.79	0.786	27.44	37.36	76610	77000	104300	104830	1.30	8.0	16.3	
2	2.671	8	1.000	0.79	0.785	27.27	37.16	76130	76610	103730	104390	1.20	8.0	15.0	
3	1.500	6	0.749	0.44	0.441	15.31	21.00	76750	76570	105260	105020	1.20	8.0	15.0	
4	1.501	6	0.749	0.44	0.441	14.85	19.32	74450	74280	96830	96610	1.00	8.0	12.5	
5	0.670	4	0.501	0.20	0.197	6.39	8.31	70480	71560	91610	93010	1.00	8.0	12.5	
6	0.667	4	0.500	0.20	0.196	6.47	8.33	71380	72840	91840	93710	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Asad Alliance

Test Performed By: Dr. /Engr. Asad Ali Gillani

Lahore.(1 x Multipurpose Hall 9x Classrooms,1x Lab &Section Head Office APS Girls Chitral Line)

Client Reference: Nil

SOM Lab 4732 (Page-1/1)

Dated: 03-09-2024

Dated: 03-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SJ Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.672	8	1.000	0.79	0.785	25.40	36.09	70920	71370	100740	101380	1.40	8.0	17.5	
2	1.505	6	0.750	0.44	0.442	15.14	20.00	75880	75530	100250	99800	1.30	8.0	16.3	
3	0.669	4	0.501	0.20	0.197	6.57	8.94	72510	73610	98580	100080	1.00	8.0	12.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)