

Saleem Tahir  
PM ICPL (OMBRe' Holding Pvt Ltd Raiwind,Lahore)

**Test Performed By:** Dr. /Engr. Wasim Abbas

**Client Reference:** OMBRe'/Mughal/Steel/016

**Dated** : 09-01-2024

**SOM Lab Ref:** CED/SOM/3479(Page-1/1)

**Dated** : 09-01-2024

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS Deformed Bar (Mughal Steel)

**Gauge Length:** 200 m

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)				
	kg/m	m	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.826	25	24.90	491	487	257.70	328.50	525	530	669	675	32.5	200	16.3	
2	3.833	25	24.93	491	488	259.70	329.00	529	532	670	674	35.0	200	17.5	
3	2.410	20	19.77	314	307	153.20	209.50	488	500	667	683	35.0	200	17.5	
4	2.403	20	19.74	314	306	153.20	209.00	488	501	665	683	32.5	200	16.3	
5	1.540	16	15.81	201	196	98.50	130.20	490	502	648	664	37.5	200	18.8	
6	1.537	16	15.79	201	196	98.70	130.20	491	505	648	665	30.0	200	15.0	
7	0.857	12	11.79	113	109	55.70	72.50	492	511	641	665	32.5	200	16.3	
8	0.857	12	11.79	113	109	56.70	73.20	501	520	647	671	27.5	200	13.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Khalid  
Pervaiz  
Moaz Steel Lahore.

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

**Client Reference:** MZ/UET/003

**Dated** : 09-01-2024

**SOM Lab Ref:** CED/SOM/3475(Page-1/1)

**Dated** : 09-01-2024

**Test:** Tension Test

**Test Specification:** ASTM-F-1554

**Sample Type:** Plain Bar (Round Steel)

**Gauge Length:** 200 m

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)				
	kg/m	m	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.852	25	25.00	491	491	232.70	520.00	474	474	1059	1060	25.0	200	12.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample 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)

Assistant Project Director,

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

PGS Housing Scheme, Sahiwal. (Const Of Jamia Masjid at Punjab Govt Servant Housing Scheme, SWI)

**Client Reference:** PGSHF/PD/SWL/7381

**SOM Lab**

**Ref:** 3476-80 (Page-1/1)

**Dated:** 30-12-2023

**Dated:** 09-01-2024

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** 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	1.536	6	0.758	0.44	0.451	15.06	21.48	75470	73630	107660	105030	1.50	8.0	18.8	
2	1.536	6	0.758	0.44	0.451	14.63	21.30	73320	71540	106790	104180	1.30	8.0	16.3	
3	0.667	4	0.500	0.20	0.196	6.78	9.09	74750	76280	100270	102320	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	6.73	9.02	74190	74940	99480	100490	1.10	8.0	13.8	
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**Witnessed By:** Ali Raza (Sub-Engineer)

**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)

Engineer Muhammad Irfan  
Dy Dir Infra. DHA Gujranwala.(Sec C)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: 111/15/DD/RS/Lab/Pkg-2A/1916

SOM Lab

Ref: 3477 (Page-1/1)

Dated: 27-12-2023

Dated: 09-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Btatala 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	0.665	4	0.498	0.20	0.195	6.90	8.56	76100	78050	94420	96850	0.90	8.0	11.3	
2	0.666	4	0.500	0.20	0.196	6.32	8.38	69700	71120	92400	94290	0.90	8.0	11.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three 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)

Allied Bank  
 Manager ABL-UMLP-199&200.(Const Of ABL Upper Mall Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: ABL-UML-AMC-QAQC-59

SOM Lab

Ref: 3478 (Page-1/1)

Dated: 09-01-2024

Dated: 09-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Amreli 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	2.607	8	0.988	0.79	0.766	28.77	32.93	80310	82830	91920	94800	1.50	8.0	18.8	
2	2.614	8	0.989	0.79	0.768	28.46	32.69	79460	81730	91270	93880	1.40	8.0	17.5	
3	1.641	6	0.783	0.44	0.482	19.44	25.25	97440	88950	126560	115530	1.00	8.0	12.5	
4	1.643	6	0.784	0.44	0.483	18.81	22.29	94270	85880	111750	101800	1.20	8.0	15.0	
5	1.055	5	0.628	0.31	0.310	12.41	14.32	88260	88260	101890	101890	1.40	8.0	17.5	
6	1.047	5	0.626	0.31	0.308	12.25	14.19	87170	87740	100950	101610	1.40	8.0	17.5	
7	0.657	4	0.496	0.20	0.193	7.56	8.89	83410	86430	98020	101580	1.00	8.0	12.5	
8	0.660	4	0.497	0.20	0.194	7.61	8.94	83970	86570	98580	101630	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 Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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)

Test Performed by: S. Asad Ali Gillani

Muhammad Uzair Sattar  
Hi-Tech Lubricants Ltd  
Lahore.

Client Reference No.: Nil

Dated: 08-01-2024

SOM Lab Ref: CED/SOM/3474 (Page 1/3)

Dated: 09-01-2024

Test Type: Tensile 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	Angle (Chawinda)	14.10x4.80	67.68	34.00	50.50	502.36	746.16	0.45	22.50
2	C-Channel (Chawinda)	19.00x2.10	39.90	19.00	22.20	476.19	556.39	0.50	25.00
3	I-Beam (Chawinda)	24.20x9.70	234.74	84.90	127.70	361.68	544.01	0.50	25.00
4	Angle (Roshan)	16.00x4.20	67.20	31.00	41.00	461.31	610.12	0.40	20.00
5	C-Channel (Roshan)	22.90x2.20	50.38	23.70	26.50	470.42	526.00	0.40	20.00

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