

Engr. Mian Mubashar Rafiq

**Test Performed By:**

Dr. /Engr.

S.Asad Ali Gillani

PM Union Developers.(Const. Of Union Luxury Apartments Etihad Town Lahore)

**Client Reference:** UA/SO/2021/012

**SOM Lab**

5614 (Page-

**Ref:**

1/1)

**Dated:** 03-01-2022

**Dated:**

04-01-2022

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Afco 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	1.462	6	0.740	0.44	0.430	14.29	19.40	71640	73300	97230	99500	1.20	8.0	15.0	
2	1.488	6	0.746	0.44	0.437	15.79	19.90	79150	79690	99740	100420	1.20	8.0	15.0	
3	1.482	6	0.745	0.44	0.436	13.39	17.70	67140	67760	88700	89520	1.20	8.0	15.0	
4	1.486	6	0.746	0.44	0.437	14.00	18.20	70160	70640	91210	91830	1.30	8.0	16.3	
5	0.655	4	0.494	0.20	0.192	5.99	7.89	66100	68850	87010	90630	1.50	8.0	18.8	
6	0.696	4	0.511	0.20	0.205	6.10	7.80	67220	65580	85990	83900	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 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)

Engr. Hasan Nawaz

**Test Performed By:** Dr. /Engr. Rizwan Raiz

CM Zameen Quadrangle.(Const. Of Zameen Quadrangle at Plot No.49,Gulberg-V Lahore)

**Client Reference:** ZD/ZQ/GSW/009

**SOM Lab** 5615 (Page-

**Ref:** 1/1)

**Dated:** 04-01-2022

**Dated:** 04-01-2021

**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	1.517	6	0.754	0.44	0.446	16.20	20.00	81190	80100	100250	98900	1.20	8.0	15.0	
2	1.516	6	0.754	0.44	0.446	16.30	20.00	81700	80600	100250	98900	1.30	8.0	16.3	
3	0.664	4	0.498	0.20	0.195	6.49	8.80	71610	73440	97010	99500	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	6.49	8.80	71610	72330	97010	97990	1.10	8.0	13.8	
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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)

Sh.Muhammad Tariq

**Test Performed By:**

Dr. /Engr. Wasim Abbas

Engr.REC,The Help Care Society (TAC).(Const. of Extension Block TAC School Jahor Town Lahore)

**Client Reference:** JTC EXT-1

**SOM Lab** 5616 (Page-

**Ref:** 1/1)

**Dated:** 04-01-2022

**Dated:** 04-01-2021

**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	2.569	8	0.980	0.79	0.755	25.91	33.54	72340	75700	93630	97970	1.40	8.0	17.5	
2	2.566	8	0.980	0.79	0.754	24.33	32.64	67930	71170	91120	95470	1.50	8.0	18.8	
3	1.522	6	0.754	0.44	0.447	16.20	21.40	81190	79920	107250	105570	1.10	8.0	13.8	
4	1.473	6	0.743	0.44	0.433	14.00	17.80	70160	71290	89210	90660	1.20	8.0	15.0	
5	0.658	4	0.496	0.20	0.193	5.70	8.40	62840	65120	92630	95990	0.90	8.0	11.3	
6	0.658	4	0.496	0.20	0.193	6.80	9.69	74980	77700	106900	110780	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 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)

Abdul Waheed Anwar

Test Performed By:

Dr. /Engr. Wasim Abbas

Sr.Accountant And Admin Incharg QU BE A Project Of P&D Pvt. Ltd. FSD

Client Reference: Nil

SOM Lab 5617 (Page-

Ref: 1/1)

Dated: 03-01-2022

Dated: 04-01-2022

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	1.439	6	0.734	0.44	0.423	11.29	17.70	56620	58890	88700	92270	1.40	8.0	17.5	
2	0.676	4	0.503	0.20	0.199	6.70	8.99	73850	74230	99150	99640	0.90	8.0	11.3	
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**BEND TEST:**

# 6	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)

Rana Associates

Test Performed By:

Dr. /Engr.

Wasim Abbas

Lahore.(Project: Markazi Jamia Safia Rehmania Lebanat-el-Islam)(Udhawal Kalan Gujrat)

Client Reference: Nil

SOM Lab

5618 (Page-

Ref:

1/1)

Dated: 04-01-2022

Dated:

04-01-2022

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	2.645	8	0.995	0.79	0.777	23.79	34.10	66420	67530	95190	96790	1.50	8.0	18.8	
2	2.619	8	0.990	0.79	0.770	24.79	34.60	69210	71010	96590	99100	1.30	8.0	16.3	
3	1.481	6	0.744	0.44	0.435	14.50	18.70	72660	73490	93710	94790	0.90	8.0	11.3	
4	1.443	6	0.735	0.44	0.424	13.29	17.30	66630	69140	86710	89980	1.00	8.0	12.5	
5	0.660	4	0.497	0.20	0.194	6.60	8.80	72730	74980	97010	100010	0.80	8.0	10.0	
6	0.654	4	0.494	0.20	0.192	6.70	8.70	73850	76930	95890	99880	0.90	8.0	11.3	
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**BEND TEST:**

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

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr. Wasim Abbas**

BSD Chakwal(Const Of Female Student Hostel/Student Services&Medical Centre Ground/First Floor)

**Client Reference:** 1491/CKL

**SOM Lab** 5619 (Page-

**Ref:** 1/1)

**Dated:** 02-12-2021

**Dated:** 04-01-2022

**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	2.690	8	1.004	0.79	0.791	23.19	33.00	64740	64660	92120	92000	1.50	8.0	18.8	
2	1.459	6	0.739	0.44	0.429	14.39	20.59	72150	74000	103210	105860	1.20	8.0	15.0	
3	0.603	4	0.475	0.20	0.177	6.39	8.90	70480	79640	98130	110890	1.40	8.0	17.5	
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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)

Sohaib Ashraf  
PM United LifeStyle Pvt. Ltd.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: ULS/2021-22/002

SOM Lab 5620 (Page-

Ref: 1/1)

Dated: 04-01-2022

Dated: 04-01-2022

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	2.611	8	0.988	0.79	0.767	26.60	34.00	74250	76480	94910	97750	1.40	8.0	17.5	
2	2.598	8	0.986	0.79	0.763	25.80	24.42	72030	74580	68190	70600	1.50	8.0	18.8	
3	1.405	6	0.725	0.44	0.413	14.79	19.59	74140	78990	98210	104630	1.20	8.0	15.0	
4	1.414	6	0.728	0.44	0.416	14.89	19.40	74650	78960	97230	102840	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 Six Samples Received and Tested
# 6	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)

Syed Mohsin Ali

Test Performed By:

Dr. /Engr. Wasim Abbas

RE QA/QC Department, Bahria Town Lhr. (Water Course Southern Ext. Ph-I Bahria Orchard Lhr)

Client Reference: QA/QC-Steel-2457

SOM Lab 5621 (Page-

Ref: 1/1)

Dated: 30-12-2021

Dated: 04-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF 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	1.487	6	0.746	0.44	0.437	14.20	18.49	71180	71670	92690	93320	1.10	8.0	13.8	
2	0.660	4	0.497	0.20	0.194	6.60	8.80	72730	74980	97010	100010	1.20	8.0	15.0	
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**BEND TEST:**

# 6	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)



**Test Performed by:** Dr Asad Ali Gillani

Assistant Engineer Construction,  
Public Health Engg. City-III,  
Sub Division Muzafferabad.  
(Construction Remaining work/Repair Water Supply System Muzafferabad (Pkg-III))

**Client Reference No:** 132830/PHE/Sub Division/City-II/2021

Dated: 20-11-2021

**SOM Lab Ref:** CED/SOM/5612 (Page 1/1)

Dated: 04-01-2022

**Test Type:** Hardness Test

**Samples Type:** GI Pipes

#### **Hardness Test Details:**

**Machine used:** Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

#### **Hardness Test Results**

<b>Sample No.</b>	<b>Sample Type (Dia)</b>	<b>Hardness</b>
1	GI Pipe (1")	HR – 73.8 – B
2	GI Pipe (1-1/2")	HR – 68.0 – B
3	GI Pipe (2")	HR – 70.3 – B
4	GI Pipe (3")	HR – 83.3 – B

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

**Test Performed By: Dr. Asad Gillani**

Malik Sohaib,

Laboratory Incharge.

Transtech Engineering Company, Haveli Bahadur Shah, Jhang.

(Project: Const. of 1263MW Punjab Thermal Power Plant, Jhang)

**Client Reference:** TEC/UET/22010201

**Dated:** 04-01-2022

**SOM Lab Ref:** CED/SOM/5613(Page-1/2)

**Dated:** 04-01-2022

**Test:** Tension Test

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

**Sample Type:** Anchor Bolt Steel Rod

**Gauge Length:** 200 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	Original Diameter	Tested Diameter									
	mm	mm	mm <sup>2</sup>	kN	kN	MPa	MPa	mm	mm	%	
1	24	23.51	434	125.70	195.70	290	451	52.5	200	26.3	
2	24	23.62	438	125.50	195.00	287	446	50.0	200	25.0	
3	16	15.42	187	82.00	119.00	440	638	35.0	200	17.5	
4	16	15.32	184	82.50	120.20	448	653	17.5	200	8.8	

Witness by: Basit Ali

**Note:-**

Only Four 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)

**Test Performed By: Dr. Asad Gillani**

Malik Sohaib,

Laboratory Incharge.

Transtech Engineering Company, Haveli Bahadur Shah, Jhang.

(Project: Const. of 1263MW Punjab Thermal Power Plant, Jhang)

**Client Reference:** TEC/UET/22010201

**Dated:** 04-01-2022

**SOM Lab Ref:** CED/SOM/5613(Page-2/2)

**Dated:** 04-01-2022

**Hardness Test Details:**

**Machine used: Avery Rockwell Hardness Testing Machine**

(Minor Load: 10 Kgf      Major Load: 90.0 kgf      Scale: C )

**Hardness Test Results**

Sample No.	Sample Type	Hardness
1	Nut (24mm)	HR – 28 – C

**Machine used: Avery Rockwell Hardness Testing Machine**

(Minor Load: 10 Kgf      Major Load: 90.0 kgf      Scale: B )

Sample No.	Sample Type	Hardness
2	Nut (24mm)	HR – 85.83 – B
3	Nut (16mm)	HR – 95.50 – B
4	Nut (16mm)	HR – 88.16 – B

Witness by: Basit Ali

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

