

Engr. Shahid R.Zaidi

**Test Performed By:**

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, CCECC MATRACON - HABIB JOINT VENTURE. Lahore

**Client Reference:** AIAP/CCECC-MATRACON-HABIB JV/2021/385

**Dated:** 21-05-2021

**SOM Lab Ref:** CED/SOM/4337 (Page-1/1)

**Dated:** 24-05-2021

**Test:** Tension Test & Bend Test

**Test Specification:** BS-4449

**Sample Type:** Deformed Bar(PAK Steel Mill Islamabad)

**Gauge Length:** 200 mm

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	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.579	16	16.00	201	201	111.20	144.70	553	554	720	720	25.0	200	12.5	7344
2	1.577	16	15.99	201	201	112.00	144.50	557	558	719	720	27.5	200	13.8	7345
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
16mm	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 Danish Khurshid  
 Manager Construction, Orient Electronice (Pvt) Ltd, Lahore

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

**Client Reference:** OSH-SO/UET/Agha Steel Test/210521-11

**Dated:** 24-05-2021

**SOM Lab Ref:** CED/SOM/4339 (Page-1/1)

**Dated:** 24-05-2021

**Test:** Tensile Test & Bend Test

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

**Sample Type:** Deformed Bar

**Gauge Length:** 200 mm

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	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.997	12	12.72	113	127	69.70	87.70	616	549	775	691	27.5	200	13.8	
2	0.995	12	12.70	113	127	63.00	83.20	557	498	736	657	27.5	200	13.8	
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**BEND TEST:**

12mm	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)

Sub Divisional Officer  
Highway Sub Division, Taunsa

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

Client Reference: 557 /-

SOM Lab

Ref: 4335(Page-2/2)

Dated: 19-04-2021

Dated: 24-05-2021

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	1.497	6	0.748	0.44	0.440	13.46	19.69	67450	67450	98720	98720	1.50	8.0	18.8	
2	1.495	6	0.748	0.44	0.439	13.27	19.54	66530	66680	97950	98170	1.50	8.0	18.8	
3	0.661	4	0.497	0.20	0.194	6.03	8.77	66550	68610	96670	99660	1.40	8.0	17.5	
4	0.658	4	0.496	0.20	0.193	5.96	8.84	65760	68150	97460	100990	1.50	8.0	18.8	
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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)

Baig Construction Co.  
Project: Madrasa Raiwind Markaz

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

Client Reference: nil  
Dated: 24-05-2021  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 4336(Page-1/1)  
Dated: 24-05-2021  
Test Specification: ASTM-A-615  
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	2.632	8	0.992	0.79	0.773	25.35	36.46	70780	72330	101800	104030	1.20	8.0	15.0	
2	1.472	6	0.743	0.44	0.433	15.16	20.36	75980	77210	102040	103690	1.20	8.0	15.0	
3	0.662	4	0.498	0.20	0.195	6.78	8.77	74750	76670	96670	99150	1.10	8.0	13.8	
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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)

Mudessar Iqbal  
 Manager QC, Country Developers (Pvt) Ltd. Lahore

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

**Client Reference:** CD-210-Testing/ST/46G-001

**SOM Lab Ref:** 4338(Page-1/1)

**Dated:** 24-05-2021

**Dated:** 24-05-2021

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Mughal 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	2.576	8	0.982	0.79	0.757	23.82	32.26	66510	69410	90070	94000	1.50	8.0	18.8	
2	1.471	6	0.742	0.44	0.432	15.16	18.73	75980	77390	93860	95600	1.50	8.0	18.8	
3	0.655	4	0.494	0.20	0.192	7.00	8.66	77230	80440	95550	99530	1.10	8.0	13.8	
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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)