

Kashmir Art & Steel  
 General Order Supplier, Bank Road Muzaffarbad

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

**Client Reference:** KS/CGGC-DES/MD/UET/001

**Dated:** 19-11-2020

**SOM Lab Ref:** CED/SOM/3292(Page-1/1)

**Dated:** 19-11-2020

**Test:** Tension 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	3.822	25	24.90	491	487	237.00	345.70	483	487	704	710	37.5	200	18.8	
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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)

Muhammad Waris Jan

Test Performed By:

Dr. /Engr.

S. Asa Ali Gillani

Sr. Engineer (Welding & NDT) EKL, Lahore (Project: Mamilhail South -1, WHSF P-611)

Client Reference: nil

Dated: 18-11-2020

SOM Lab Ref: CED/SOM/3295(Page-1/1)

Dated: 19-11-2020

Test: Tension 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	2.227	20	19.02	314	284	138.70	193.70	441	489	617	683	32.5	200	16.3	
2	1.503	16	15.62	201	192	94.00	150.70	468	491	750	787	27.5	200	13.8	
3	0.869	12	11.88	113	111	55.20	68.20	488	499	603	616	30.0	200	15.0	
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**BEND TEST:**

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

Kamran Tahir Sandhu

**Test Performed By:**

**Dr. /Engr.**

S. Asad Ali Gillani

Material Engineer, DHA Multan(Construction of DHA Shopping Mall (M/S CM Developers))

**Client Reference:** 701/70/P&D/DHA

**SOM Lab**

3290(Page-

**Ref:**

1/1)

**Dated:** 13-11-2020

**Dated:**

19-11-2020

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Guage Length:** 8 inch

**Sample Type:**

Deformed Bar(Ittefaq 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	2.583	8	0.983	0.79	0.759	24.94	33.54	69640	72480	93630	97450	1.30	8.0	16.3	
2	2.664	8	0.998	0.79	0.783	25.38	32.59	70860	71500	90980	91790	1.40	8.0	17.5	
3	1.449	6	0.736	0.44	0.426	15.21	19.44	76240	78740	97440	100640	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	16.11	19.98	80730	81470	100150	101070	1.30	8.0	16.3	
5	0.708	4	0.515	0.20	0.208	6.88	10.55	75880	72960	116340	111870	1.20	8.0	15.0	
6	0.677	4	0.503	0.20	0.199	6.54	9.65	72170	72530	106450	106990	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)

Muhammad Waris Jan  
Sr. Engineer (Welding & NDT) EKL (Pvt) Ltd. Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3295(Page-1/1)

Dated: 19-11-2020

Dated: 19-11-2020

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	2.664	8	0.998	0.79	0.783	25.69	35.60	71720	72360	99380	100260	1.30	8.0	16.3	
2	2.663	8	0.998	0.79	0.783	25.48	35.42	71150	71780	98890	99780	1.40	8.0	17.5	
3	1.514	6	0.753	0.44	0.445	16.92	19.83	84820	83870	99380	98260	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)

Manager C. R & M

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Allied Bank Ltd. Engineering Cell, South - II, Abdali Tower, Abdali Road, Multan

Client Reference: GHQ/S2/ENGG CELL MTN/MA/2020/413

SOM Lab

Ref: 3296(Page-1/1)

Dated: 18-11-2020

Dated: 19-11-2020

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	1.650	6	0.786	0.44	0.485	17.09	20.90	85690	77740	104750	95030	1.20	8.0	15.0	
2	1.633	6	0.782	0.44	0.480	16.94	20.76	84920	77850	104080	95410	1.30	8.0	16.3	
3	0.579	4	0.465	0.20	0.170	6.70	7.77	73850	86890	85660	100770	1.10	8.0	13.8	
4	0.576	4	0.464	0.20	0.169	6.60	7.67	72730	86070	84530	100040	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)