

Khalid Pervaiz

MOAZ Steel Lahore(Rock Bolt "Mughal Brand" for CGGC -DESCON JV Muhammad Sam Hydro Power Project)

**Test Performed By:**

Dr. /Engr.

S. Asad Ali  
Gillani

**Client Reference:** MZ/CGGC-DES/MD/UET/007

**SOM Lab Ref:** 2034 (Page-1/1)

**Dated:** 13-01-2020

**Dated:** 13-01-2020

**Test:** Tension 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	2.615	8	0.989	0.79	0.768	27.52	34.42	76840	79040	96100	98860	1.10	8.0	13.8	
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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)

Sub Divisional Officer  
Public Health Engg: Sub Division, Kamalia

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

Client Reference: 11/K

SOM Lab

Ref: 2040 (Page-1/1)

Dated: 10-01-2020

Dated: 13-01-2020

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	1.480	6	0.744	0.44	0.435	15.26	19.03	76490	77370	95400	96490	1.20	8.0	15.0	
2	0.632	4	0.487	0.20	0.186	4.76	6.78	52500	56450	74750	80380	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 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)