

Sami Ullah Warraich

Test Performed By:

Dr. /Engr.

Nauman Khurram

Project Manager, ICPL,- OMPL 0629, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST-OMPL/20/053

SOM Lab

Ref:

2890(Page-1/1)

Dated: 28-08-2020

Dated:

28-08-2020

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	2.651	8	0.996	0.79	0.779	25.59	34.53	71430	72440	96390	97750	1.20	8.0	15.0	
2	2.632	8	0.992	0.79	0.773	25.50	34.58	71200	72770	96530	98650	1.30	8.0	16.3	
3	1.467	6	0.741	0.44	0.431	13.56	20.23	67960	69380	101420	103540	1.20	8.0	15.0	
4	1.463	6	0.740	0.44	0.430	12.95	19.03	64890	66400	95400	97610	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	6.14	8.48	67670	68700	93530	94950	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	6.09	8.33	67110	68480	91840	93710	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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 Sheharyar

**Test Performed By:**

Dr. /Engr.

Nauman Khurram

Construction Manager, National Power Construction Corporation (Pvt) Ltd. Lahore

**Client Reference:** NPCC/TLC-07-2019/L-221

**SOM Lab**

**Ref:**

2891(Page-1/1)

**Dated:** 28-08-2020

**Dated:**

28-08-2020

**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	3.431	9	1.133	1.00	1.008	34.71	44.72	76550	75940	98630	97850	1.30	8.0	16.3	
2	3.427	9	1.132	1.00	1.007	36.95	46.50	81500	80930	102560	101850	1.50	8.0	18.8	
3	3.395	9	1.127	1.00	0.998	34.73	44.62	76600	76750	98400	98600	1.60	8.0	20.0	
4	0.666	4	0.500	0.20	0.196	7.77	9.48	85660	87410	104540	106670	1.30	8.0	16.3	
5	0.678	4	0.503	0.20	0.199	7.97	9.73	87910	88350	107350	107890	1.20	8.0	15.0	
6	0.653	4	0.494	0.20	0.192	7.92	9.55	87340	90980	105330	109720	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Witnessed By:**

Hasnain Khan, AM (Civil) NTDC, & Umar Hameed, Contracts Engineer, NPCC

**BEND TEST:**

# 9(Sr.1&2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
# 9(Sr. 3)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr 4&5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr. 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)

General Manager Operations  
 Model Steel Enterprises (Pvt.) Ltd. Lahore

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

Client Reference: Nil  
 Dated: 28-08-2020  
 Test: Tension Test  
 Gauge Length: 8 inch

SOM Lab  
 Ref: 2892(Page-1/1)  
 Dated: 28-08-2020  
 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	2.713	8	1.007	0.79	0.797	27.01	35.78	75420	74750	99890	99010	1.00	8.0	12.5	
2	1.475	6	0.743	0.44	0.433	15.39	19.32	77160	78400	96830	98390	0.90	8.0	11.3	
3	0.627	4	0.484	0.20	0.184	5.63	8.31	62050	67450	91610	99580	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

--	No Bend test performed	<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)