



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Half Full Studio  
Lahore  
(Office Building – The Qube)

Reference # CED/TFL **36536** (Dr. Waseem Abbass)  
Reference of the request letter # Qube/372/MT/01

Dated: 08-06-2021  
Dated: 08-06-2021

**Tension Test Report** (Page – 1/1)

Date of Test 15-06-2021  
Gauge length 2 inches  
Description Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip (mm)	X Section Area (mm <sup>2</sup> )	Breaking Load (kg)	Ultimate Stress (MPa)	Elongation (inch)	% Elongation	Remarks
	(mm)	(mm)							
1	Welded Plate	8	21.70x8.00	173.60	7700	435.12	0.40	20.00	Failure at the location other than weld
2			21.70x8.00	173.60	7900	446.42	0.50	25.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
<b>Only two samples for tensile and four samples for bend test</b>									
<b>Bend Test</b>									
Strip taken from Welded Plate (8mm) Root Bend Test Through 180° is Satisfactory									
Strip taken from Welded Plate (8mm) Root Bend Test Through 180° is Satisfactory									
Strip taken from Welded Plate (8mm) Face Bend Test Through 180° is Satisfactory									
Strip taken from Welded Plate (8mm) Face Bend Test Through 180° is Satisfactory									

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 ACE, Danish School  
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **36559** (Dr. Waseem Abbass) Dated: 14-06-2021  
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/415 Dated: 14-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3/8	0.373	0.11	0.109	3800	5200	76200	76650	104200	104900	0.90	11.3	
2	0.374	3/8	0.374	0.11	0.110	3800	5200	76200	76100	104200	104200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
M/S SA-RA Group  
Lahore  
(Procurement of Plant, Design, Supply, Installation, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)  
Reference # CED/TFL **36560** (Dr. Waseem Abbass) Dated: 14-06-2021  
Reference of the request letter # MIG/2021/540 Dated: 11-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.390	3	0.382	0.11	0.115	4100	5100	82200	78790	102200	98000	1.00	12.5	SJ Steel
2	0.368	3	0.371	0.11	0.108	3600	4500	72200	73420	90200	91800	1.00	12.5	
3	0.366	3	0.370	0.11	0.108	3500	4500	70200	71710	90200	92200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and three samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub-Engineer NESPAK)

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Buildings Sub Division  
 Assembly, Lahore  
 (Construction of MPA Hostel, Lahore (Phase-II) Group No. 02)

Reference # CED/TFL **36561** (Dr. Waseem Abbass)  
 Reference of the request letter # 417

Dated: 14-06-2021  
 Dated: 03-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3/8	0.375	0.11	0.110	3100	4700	62200	61870	94200	93900	1.30	16.3	
2	0.371	3/8	0.372	0.11	0.109	3100	4500	62200	62720	90200	91100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Development of Prism DHA Phase-9/Pkg -8 (M/s Maaksons) (Mughal Steel)

Reference # CED/TFL **36562** (Dr. Waseem Abbass)  
Reference of the request letter # 408/241/ /Lab/82/13571

Dated: 14-06-2021  
Dated: 11-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	3500	4800	70200	70210	96200	96300	0.80	10.0	Sample 01
2	0.375	3	0.375	0.11	0.110	3500	4700	70200	70010	94200	94100	0.90	11.3	
3	0.374	3	0.374	0.11	0.110	3500	4700	70200	70170	94200	94300	1.00	12.5	Sample 02
4	0.377	3	0.376	0.11	0.111	3600	4900	72200	71580	98200	97500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Engr. Project Director  
 Elite Engineering (Pvt) Limited  
 Sitara Heights 3-Jays Tower, Gulberg-III, Lahore

Reference # CED/TFL **36564** (Dr. Waseem Abbass)  
 Reference of the request letter # EEPL/SH/001/006

Dated: 14-06-2021  
 Dated: 14-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3/8	0.371	0.11	0.108	3900	5200	78200	79490	104200	106000	1.00	12.5	Batala Steel
2	0.368	3/8	0.371	0.11	0.108	3400	4700	68200	69300	94200	95800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Engineer (Civil)  
 Daanish School Chishtian  
 Construction of Remaining Boundary Wall at Daanish Schools (Boys & Girls) Chishtian, District Bahawalnagar

Reference # CED/TFL **36565** (Dr. Waseem Abbass)  
 Reference of the request letter # Const/CTN/062021/236

Dated: 14-06-2021  
 Dated: 01-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3/8	0.375	0.11	0.110	4300	5200	86200	85790	104200	103800	0.90	11.3	
2	0.387	3/8	0.381	0.11	0.114	4200	5100	84200	81330	102200	98800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 RMU, Rawalpindi  
 Construction of Overhead Water Tank at Old Campus Tipu Road, Rawalpindi

Reference # CED/TFL **36566** (Dr. Waseem Abbass)  
 Reference of the request letter # RMU/SDO/22

Dated: 14-06-2021  
 Dated: 29-05-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.388	3/8	0.381	0.11	0.114	3700	5000	74200	71580	100200	96800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Project Manager  
 ASMI  
 Construction of Residence for Mr. Asif Jamal at Plot No. 1034 Sector K DHA Lahore

Reference # CED/TFL **36569** (Dr. Waseem Abbass)  
 Reference of the request letter # Nil

Dated: 14-06-2021  
 Dated: 14-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.407	3	0.390	0.11	0.120	3800	4800	76200	69970	96200	88400	1.00	12.5	
2	0.408	3	0.391	0.11	0.120	3800	4800	76200	69810	96200	88200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Construction Manager  
 Deevar Developers Pvt. Ltd  
 Construction of Zameen Opal, Plot No. 16, Sector-A, Land Breeze Housing Society, Raiwind  
 Road, Lahore  
 Reference # CED/TFL 36571 (Dr. Asad Ali) Dated: 15-06-2021  
 Reference of the request letter # ZD/ZO/L/029 Dated: 15-06-2021

**Tension Test Report** (Page -1/1)

Date of Test 15-06-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.381	3	0.378	0.11	0.112	4030	5680	80800	79270	113900	111800	0.80	10.0	
2	0.381	3	0.377	0.11	0.112	3740	5320	75000	73660	106600	104800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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