



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

To,  
 Assistant Director  
 Defence Housing Authority, Gujranwala  
 “Construction of 10 Marlq Villas (Block A)”

Reference # CED/TFL **4141** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/3/AD Bldgs/Gen/57

Dated: 31-10-2023  
 Dated: 24-10-2023

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

Date of Test 03-11-2023  
 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	3700	4900	74200	74250	98200	98400	1.10	13.8	FF Steel
2	0.374	3	0.374	0.11	0.110	3800	5000	76200	76160	100200	100200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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



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**University of Engineering and Technology Lahore, 54890**  
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To,

Assistant Engineer (Civil)  
 University of Engineering and Technology, Lahore  
 Construction of “Centre for Excellence for Research and Development & Training”  
 Chemical Engineering Department Main Campus, UET Lahore.

Reference # CED/TFL **4144** (Dr. M Rizwan Riaz)  
 Reference of the request letter # B&W/ECSCE/ECE/08

Dated: 31-10-2023  
 Dated: 31-10-2023

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

Date of Test 03-11-2023  
 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	0.385	3	0.380	0.11	0.113	3900	6000	78200	75880	120300	116800	1.20	15.0	
2	0.376	3	0.375	0.11	0.110	3500	5500	70200	69870	110200	109800	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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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

Resident Engineer  
NESPAK  
Infrastructure Development of Quaid-E-Azam Business Park on Motorway M-2, District  
Sheikhupura.

Reference # CED/TFL **4145** (Dr. M Rizwan Riaz)  
Reference of the request letter# 4163/11/ZA/04/613

Dated: 01-11-2023  
Dated: 24-10-2023

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

Date of Test 03-11-2023  
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	0.155	2/8	0.241	-----	0.046	1600	1960	-----	77350	-----	94800	1.20	15.0	
2	0.153	2/8	0.239	-----	0.045	1600	1920	-----	78280	-----	94000	1.30	16.3	
3	0.375	3/8	0.375	0.11	0.110	3000	4600	60200	59970	92200	92000	1.10	13.8	
4	0.375	3/8	0.375	0.11	0.110	3100	4800	62200	61970	96200	96000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
2/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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

To,  
Resident Engineer  
NESPAK  
Construction of 8-Lane Overhead Bridge at Imamia Colony.

Reference # CED/TFL **4146** (Dr. Rizwan Riaz)  
Reference of the request letter # RE/4537/02/MH/136

Dated: 01-11-2023  
Dated: 30-10-2023

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

Date of Test 03-11-2023  
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	0.370	3	0.372	0.11	0.109	3400	4600	68200	68900	92200	93300	1.30	16.3	Mughal Steel
2	0.370	3	0.372	0.11	0.109	3400	4600	68200	68900	92200	93300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,

Senior Resident Engineer  
 NESPAK  
 Punjab Intermediated Cities Improvement Investment Program (PICIIIP)  
 Consultancy Services for Engineering, Procurement and Construction Management  
 Watsan Sialkot (NCB-WORKS/PICIIIP-11) (Lot-01)

Reference # CED/TFL **4147** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nespak/SA/UET/L1/373

Dated: 01-11-2023  
 Dated: 12-10-2023

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

Date of Test 03-11-2023  
 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	0.389	3	0.382	0.11	0.114	4100	5200	82200	79020	104200	100300	0.80	10.0	Supreme Islamabad
2	0.398	3	0.386	0.11	0.117	3800	5000	76200	71550	100200	94200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer  
Acrow Consultant  
Construction of Apartment Building at B-45 Gulberg III, Lahore

Reference # CED/TFL **4148** (Dr. M Rizwan Riaz)  
Reference of the request letter# AC/B-45/09

Dated: 01-11-2023  
Dated: 31-10-2023

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

Date of Test 03-11-2023  
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	0.399	3	0.386	0.11	0.117	3700	5500	74200	69570	110200	103500	1.20	15.0	
2	0.401	3	0.387	0.11	0.118	3600	5500	72200	67380	110200	103000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

Project Engineer  
 Prosperity Consultants  
 Design, Manufacture, Supply, Erection, Testing and Commissioning on EPC / Turkey  
 Basis of 132/11.50 kV (GIS) Grid Station # 1 DHA, Gujranwala.

Reference # CED/TFL **4151** (Dr. Rizwan Riaz)  
 Reference of the request letter # DHA GUJ/GRID/773

Dated: 02-11-2023  
 Dated: 31-10-2023

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

Date of Test 03-11-2023  
 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	0.364	3	0.369	0.11	0.107	3500	4800	70200	72100	96200	98900	0.90	11.3	Kamran Steel
2	0.366	3	0.370	0.11	0.107	3900	4900	78200	79980	98200	100500	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
 Manager Purchase  
 Bismillah Developers  
 Masjid e-Aqsa  
 Bismillah Housing Scheme I,  
 Manawan G.T Road, Lahore

Reference # CED/TFL **4152** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 02-11-2023  
 Dated: 02-11-2023

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

Date of Test 03-11-2023  
 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	3700	5000	74200	71150	100200	96200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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