



**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 Volka Food International Limited.  
Multan.

Reference # CED/TFL **4947** (Dr. Usman Akmal)  
Reference of the request letter # VFI/Civil/11

Dated: 19-04-2024  
Dated: 17-04-2024

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

Date of Test 23-04-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Grad
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	9.5	9.49	0.110	0.110	3600	5000	72200	72410	100200	100600	1.00	12.5	
2	0.373	9.5	9.49	0.110	0.110	3700	5000	74200	74320	100200	100500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Note: only two samples for tensile and one sample for bend test**

Bend Test

9.5mm Dia Bar 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  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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,

Assistant Resident Engineer  
Engineering Consultancy Services Punjab (Pvt) Ltd.  
Establishment of District Integrated Command, Control & Communication (DIC3)  
Centers in Eighteen Cities (Smart Safe Cities Project Phase-I).

Reference # CED/TFL **4952** (Dr. Usman Akmal)  
Reference of the request letter # ECSP/DIC3/24-01

Dated: 19-04-2024  
Dated: 17-04-2024

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

Date of Test 23-04-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	10	9.43	0.12	0.108	3300	4600	60627	67160	84510	93700	1.60	20.0	Sheikhu
2	0.378	10	9.55	0.12	0.111	3800	4700	69812	75440	86347	93400	0.70	8.8	Amreli
3	0.375	10	9.52	0.12	0.110	3600	4700	66138	71950	86347	94000	0.90	11.3	Mughal
4	0.376	10	9.53	0.12	0.111	3300	5100	60627	65800	93696	101700	1.00	12.5	Ittefaq
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and four samples for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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

Project Manager  
Izhar Construction (Pvt) Ltd.  
Construction of Nishat Papaer Products Plant at QABP, Sheikhpura.

Reference # CED/TFL **4953** (Dr. Usman Akmal)

Dated: 19-04-2024

Reference of the request letter # ICPL/CONST-NPPCL/24/005

Dated: 19-04-2024

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

Date of Test 23-04-2024

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	Grad
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.405	3	0.389	0.11	0.119	4200	5400	84200	77730	108200	100000	1.00	12.5	
2	0.406	3	0.390	0.11	0.119	4100	5400	82200	75750	108200	99800	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.**

Note:

- 1- You can See your reports On Internet in the following web site  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,

Resident Engineer  
 Techno-Consultant International (Pvt) Ltd.  
 PRSWSS Project – North.  
 KLK-01 “Procurement of Civil Works, North Tehsil Kallar Kahr (Villages Gahi & Makhyal)”

Reference # CED/TFL **4954** (Dr. Usman Akmal)

Dated: 19-04-2024

Reference of the request letter # TCI/PRSWSSP-NORTH/PHASE-V/KLK-01/126

Dated: 15-02-2024

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

Date of Test 23-04-2024

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	Grad
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	4200	5300	84200	82800	106200	104500	0.80	10.0	AK Supreme
2	0.386	3/8	0.380	0.11	0.114	3900	5200	78200	75710	104200	101000	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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**University of Engineering and Technology Lahore, 54890**  
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To,  
M/S Hunza Steel (Pvt) Limited.  
Lahore

Reference # CED/TFL 4955 (Dr. Asad Ali)  
Reference of the request letter # Nil

Dated: 22-04-2024  
Dated: 20-03-2024

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

Date of Test 22-04-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile 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	Grad
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.107	3430	4860	68800	70370	97400	99700	1.00	12.5	
2	0.366	3	0.370	0.11	0.108	3410	4860	68400	69860	97400	99600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**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**  
**Pakistan. Ph: 92-42-99029202**

To,

Project Manager  
M. Ahmed Associates.  
Construction ABL Branch 5147 at P-463 Shadman Colony-1, Lahore

Reference # CED/TFL **4956** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 22-04-2024  
Dated: 19-04-2024

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

Date of Test 23-04-2024  
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	Grad
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3/8	0.372	0.11	0.109	3700	4700	74200	75150	94200	95500	1.10	13.8	Sheikhoo Steel
2	0.370	3/8	0.372	0.11	0.109	3600	4700	72200	73000	94200	95400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

Note:

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To,

Project Coordinator  
Al-Khurrum Associates (Pvt) Limited.  
WB-07E-2020 - Design, Supply Installation Testing and Commissioning of  
Augmentation Works at 220kV WAPADA Town and 500kV Lahore (Sheikhupura) Grid  
Station.

Reference # CED/TFL **4957** (Dr. Irfan-ul-Hassan)

Dated: 22-04-2024

Reference of the request letter # ALKHASS/PVT/WB-07E/1904

Dated: 19-04-2024

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

Date of Test 22-04-2024

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	Grad
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.394	3	0.384	0.11	0.116	4810	5320	96400	91440	106600	101200	0.90	11.3	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub Engr. 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  
Khushab  
(Construction of Residences for Officers / Official of The Office of Deputy Director  
Small Scale Mining Khushab.)

Reference # CED/TFL **4960** (Dr. Usman Akmal)  
Reference of the request letter # 841/K

Dated: 22-04-2024  
Dated: 05-12-2023

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

Date of Test 23-04-2024  
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	0.385	3/8	0.380	0.11	0.113	3700	5600	74200	72020	112300	109100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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To,  
General Manager  
Jafris and Steel (Private) Limited.  
Construction of Al-Munawar Residential.

Reference # CED/TFL **4961** (Dr. Usman Akmal)  
Reference of the request letter # Js80/513

Dated: 22-04-2024  
Dated: 22-04-2024

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

Date of Test 23-04-2024  
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	Grad
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.061	10	1.233	1.27	1.194	38600	54000	67000	71280	93800	99800	1.40	17.5	
2	4.193	10	1.253	1.27	1.232	39200	53800	68100	70110	93400	96300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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

To,

Sub Divisional Officer  
 Buildings Sub Division  
 Hafizabad  
 “Establishment of University of Hafizabad. (Group No. 2)”  
 Construction of Academic Block.

Reference # CED/TFL **4963** (Dr. Usman Akmal)  
 Reference of the request letter # 565/HZ

Dated: 22-04-2024  
 Dated: 18-03-2024

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

Date of Test 23-04-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.364	3/8	0.369	0.11	0.107	3600	4700	72200	74080	94200	96800	1.20	15.0	
2	0.369	3/8	0.371	0.11	0.108	3500	4700	70200	71180	94200	95600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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