



**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  
 (External Electrification System (U/G) of IVY Green Sector-Z DHA Phase-VIII) – (M/s NLC)

Reference # CED/TFL **37775** (Dr. Usman Akmal)  
 Reference of the request letter # 408/241/32/Lab/23/64

Dated: 26-01-2022  
 Dated: 21-01-2022

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

Date of Test 27-01-2022  
 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	0.367	3	0.371	0.11	0.108	3600	5400	72200	73560	108200	110400	1.20	15.0	Afco Steel
2	0.385	3	0.380	0.11	0.113	3700	5700	74200	71990	114300	110900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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  
[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



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To,  
M/S Majeed Associates (Pvt) Ltd  
Lahore  
(Allied Bank Ware House Pakpatan Road Sahiwal)

Reference # CED/TFL **37778** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 26-01-2022  
Dated: 25-01-2022

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

Date of Test 27-01-2022  
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	0.374	3/8	0.374	0.11	0.110	3600	4700	72200	72220	94200	94300	0.80	10.0	Afco Steel
2	0.369	3/8	0.372	0.11	0.108	3700	4600	74200	75190	92200	93500	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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To,  
 Assistant Project Director  
 PMU-SBP  
 "Provision of Swimming Pool at GCU Ground Lahore"

Reference # CED/TFL **37780** (Dr. Usman Akmal)  
 Reference of the request letter # APD/PMU/SBP/LHR/22/208

Dated: 26-01-2022  
 Dated: 10-01-2022

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

Date of Test 27-01-2022  
 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	0.405	3/8	0.389	0.11	0.119	3600	5400	72200	66730	108200	100100	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**  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Sub Divisional Officer  
 Highway Sub Division  
 Gujranwala  
 Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwar via Hafizabad km 6.20 to km 80.35 length 74.15 km in District Gujranwala & Hafizabad (Section No. 1 km 6.20 to 23.20 Length = 17.00 km)  
 Reference # CED/TFL **37781** (Dr. Usman Akmal) Dated: 26-01-2022  
 Reference of the request letter # 735/G-1 Dated: 17-01-2022

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

Date of Test 27-01-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test

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	0.096	3/16	0.189	-----	0.028	920	1360	-----	72010	-----	106500	0.80	10.0	
2	0.162	1/4	0.246	-----	0.048	1000	1960	-----	46320	-----	90800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and two samples for bend test</b>														
Bend Test														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Sub Divisional Officer  
 Public Health Engg: Sub Division  
 Shahpur  
 (Sewerage Scheme in 5 Nos. Colonies of Chak No. 79/NB Including Deseling of Existing Sewer Line Sargodha)  
 Reference # CED/TFL **37782** (Dr. Usman Akmal) Dated: 26-01-2022  
 Reference of the request letter # 22 Dated: 24-01-2022

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

Date of Test 27-01-2022  
 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	0.231	3/16	0.294	-----	0.068	2040	3000	-----	66220	-----	97400	1.00	12.5	
2	0.374	3/8	0.374	0.11	0.110	3300	5200	66200	66080	104200	104200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and two samples for bend test</b>														
<b>Bend Test</b>														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
M/S Ittefaq Building Solution Pvt Ltd  
Lahore  
(Master Textile Mills Ltd. (Extension of Spinning Unit M-7))

Reference # CED/TFL **37783** (Dr. Usman Akmal)  
Reference of the request letter # IBS/M-7/Steel/15-01-2022

Dated: 26-01-2022  
Dated: 25-01-2022

**Tension Test Report** (Page -1/2)

Date of Test 27-01-2022  
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	0.373	3	0.374	0.11	0.110	3600	5000	72200	72380	100200	100600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
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To,  
M/S Ittefaq Building Solution Pvt Ltd  
Lahore  
(Master Textile Mills Ltd. (Extension of Spinning Unit M-7))

Reference # CED/TFL **37783** (Dr. Usman Akmal)  
Reference of the request letter # IBS/M-7/Steel/15-01-2022

Dated: 26-01-2022  
Dated: 25-01-2022

**Tension Test Report** (Page -2/2)

Date of Test 27-01-2022  
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	0.374	3	0.374	0.11	0.110	3700	5200	74200	74230	104200	104400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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

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To,  
 Resident Engineer  
 Sitara Heights Private Limited, Lahore  
 “Sitara Icon Tower, Faisalabad”

Reference # CED/TFL **37784** (Dr. Usman Akmal)  
 Reference of the request letter # SHP/ICON/FSD/01

Dated: 26-01-2022  
 Dated: 26-01-2022

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

Date of Test 27-01-2022  
 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	3200	4900	64200	64900	98200	99400	1.50	18.8	
2	0.370	3	0.372	0.11	0.109	3300	4900	66200	66840	98200	99300	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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To,  
 Material Engineer  
 Engineering Consultancy Services Punjab (Pvt) Limited  
 Reconstruction of Pipal House A-Block Lahore

Reference # CED/TFL **37785** (Dr. Usman Akmal)  
 Reference of the request letter # 343/ECSP/PH/ME/02

Dated: 26-01-2022  
 Dated: 26-01-2022

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

Date of Test 27-01-2022  
 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	0.376	3	0.375	0.11	0.111	3200	4700	64200	63740	94200	93700	1.50	18.8	Kamran Steel
2	0.375	3	0.375	0.11	0.110	3200	4700	64200	63980	94200	94000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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