



**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  
CPM Pvt Limited  
Construction of Gabion Walls and Stone Pitching at Pearl Continental Hotel Mirpur (A.K)

Reference # CED/TFL **32628, 641** (Dr. Waseem Abbas)  
Reference of the request letter # PCH/MP/AK/CM/006

Dated: 13-02-2019  
Dated: 08-02-2019

**Tension Test Report** (Page – 1/1)

Date of Test 20-02-2019  
Gauge length 2 inches  
Description Steel Mesh Wire Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(cm)						
1	0.35	0.096	460	4781.14	0.30	15.0	
2	0.35	0.096	460	4781.14	0.30	15.0	
3	0.31	0.075	200	2649.82	0.40	20.0	
4	0.31	0.075	240	3179.79	0.40	20.0	
5	0.19	0.029	130	4443.64	0.40	20.0	
6	0.19	0.029	140	4785.46	0.40	20.0	
<b>Only Six Sample for Tensile Test</b>							

**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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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **32652** (Dr. Waseem Abbas)  
Reference of the request letter # 408/241/E/Lab/455/1585

Dated: 19-02-2019  
Dated: 18-02-2019

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

Date of Test 20-02-2019  
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	0.366	3	0.370	0.11	0.108	3200	4800	64200	65540	96200	98400	1.30	16.3	Moiz Steel
2	0.358	3	0.366	0.11	0.105	3100	4600	62200	64990	92200	96500	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:

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To,  
 Sub Divisional Officer  
 Public Health Engg: Sub Division  
 Shahpur  
 (Multi Sectoral Nutrition Strategy for Wash Including Water Supply, Sanitation, Hygiene,  
 Wastewater Treatment, Disposal of Solid Waste(10 Villages of Brakish/Brani District with  
 Minimum Population of 5000 Persons One from Each Civil Division) Village Kot Bhai Khan  
 District Sargodha)

Reference # CED/TFL **32653** (Dr. Waseem Abbas)

Dated: 19-02-2019

Reference of the request letter # 198/S.P

Dated: 20-12-2018

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

Date of Test 20-02-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.405	3/8	0.389	0.11	0.119	3600	5000	72200	66720	100200	92700	1.30	16.3	
2	0.396	3/8	0.385	0.11	0.116	3200	4600	64200	60560	92200	87100	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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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of 2 Kanal Villas at DRGCC Ph-III, DHA Ph-VI)(M/s Contract)

Reference # CED/TFL **32655** (Dr. Waseem Abbas)  
Reference of the request letter # 408/241/E/Lab/454/412

Dated: 19-02-2019  
Dated: 18-02-2019

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

Date of Test 20-02-2019  
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	0.354	3	0.364	0.11	0.104	3800	4800	76200	80530	96200	101800	0.90	11.3	Kamran Steel
2	0.353	3	0.364	0.11	0.104	3900	4800	78200	82740	96200	101900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

Note:

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
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To,  
M/S Etoile Constructors  
Lahore

Reference # CED/TFL **32656** (Dr. Waseem Abbas)  
Reference of the request letter # Nil

Dated: 19-02-2019  
Dated: 19-02-2019

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

Date of Test 20-02-2019  
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	0.391	10	9.71	0.11	0.115	3900	5200	78200	74880	104200	99900	1.00	12.5	
2	0.387	10	9.67	0.11	0.114	4000	5200	80200	77450	104200	100700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Sub Divisional Officer (Auqaf)  
 Lahore Zone, Lahore  
 (Up-Gradation of Shrine Hazrat Bibi Pak Damna, Lahore)

Reference # CED/TFL **32660** (Dr. Waseem Abbas)  
 Reference of the request letter # III-DP-LZ(765)A/2018

Dated: 19-02-2019  
 Dated: 18-02-2019

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

Date of Test 20-02-2019  
 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	0.369	3/8	0.372	0.11	0.108	3200	5200	64200	65050	104200	105700	1.20	15.0	
2	0.371	3/8	0.373	0.11	0.109	3200	5000	64200	64660	100200	101100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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**UET Lahore, Pakistan.**

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To,  
 Cantonment Executive Officer  
 Lahore Cantonment Board  
 Construction of 22 Nos Flat at Jhalrahan

Reference # CED/TFL **32661** (Dr. Waseem Abbas)  
 Reference of the request letter # CE/22 Flat/2018-19/D-1211

Dated: 19-02-2019  
 Dated: 13-02-2019

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

Date of Test 20-02-2019  
 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	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	2800	4300	56200	56130	86200	86200	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	2900	4300	58200	58270	86200	86400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
 Project Manager  
 Al – Rehman Garden Phase II  
 Lahore

Reference # CED/TFL **32662** (Dr. Waseem Abbas)  
 Reference of the request letter # Z.A/A.R/02-19

Dated: 19-02-2019  
 Dated: 12-02-2019

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

Date of Test 20-02-2019  
 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	0.388	3	0.381	0.11	0.114	3400	4900	68200	65670	98200	94700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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