



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

To,  
 Chief Resident Engineer, Package-1  
 NESPAK  
 Construction/ Improvement & Rehabilitation of at Grade Works along Lahore Orange Line Metro Train  
 Corridor Package-1 (Section-II) from Coop Store to Bohar Wala Chowk

Reference # CED/TFL **33812** (Dr. Qasim Khan)  
 Reference of the request letter # 4042/13/FAM/steel-041

Dated: 12-09-2019  
 Dated: 05-07-2019

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

Date of Test 13-09-2019  
 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	0.371	3	0.373	0.11	0.109	3100	4900	62200	62580	98200	99000	1.10	13.8	Ittefaq
2	0.376	3	0.375	0.11	0.110	3200	4900	64200	63850	98200	97800	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  
[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,  
 Additional Director Development  
 DHA Phase-XI (Rahbar)  
 Construction of Doctor Room / Waiting Room for Mobile Medical Bus in Sec-II DHA Phase-XI  
 (Rahbar)

Reference # CED/TFL **33813** (Dr. Qasim Khan) Dated: 12-09-2019  
 Reference of the request letter # DR/WR/MMB/Sec-II/6/19/2630 Dated: 12-09-2019

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

Date of Test 13-09-2019  
 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	0.371	3/8	0.372	0.11	0.109	3600	5500	72200	72850	110200	111300	1.00	12.5	Ittefaq Steel
2	0.387	3/8	0.380	0.11	0.114	3600	5700	72200	69810	114300	110600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
M/S Haris & Company  
Lahore  
(Jazz USF North Waziristan Project)

Reference # CED/TFL **33814** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 12-09-2019  
Dated: 12-09-2019

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

Date of Test 13-09-2019  
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	0.400	10	9.82	0.12	0.118	3850	5200	70731	72220	95533	97600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample 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,  
Resident Engineer  
EGC (Pvt) Ltd  
KQC Road Project N-25  
Additional work under USAID for Kalat-Quette-Chaman N-25 Toll Plaza

Reference # CED/TFL **33815** (Dr. Qasim Khan)  
Reference of the request letter # RE/KQC-N-25/Add/337

Dated: 12-09-2019  
Dated: 11-09-2019

**Tension Test Report** (Page – 1/1)

Date of Test 13-09-2019  
Gauge length -----  
Description Chain Link Fabric Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.90	5.50	
2	3.90	6.00	
3	3.90	5.50	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only Three Samples for Test</b>			

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

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Ref: CED/TFL/09/33816

Date of Test: 13-09-2019

Dated: 12-09-19

**To**  
**Resident Engineer**  
**Peas Consulting (Pvt) Ltd**  
**NA's (North-Zone) Project**  
**Construction of Bridge at km (34+157) (N-125)**

**Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD)**

Reference to your letter no. RE/PEAS/NHA/BR-REH/N-125/2017/037, Dated: 05/09/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) has been received by us. The same was tested and results are given below.

**Laboratory** : **TEST FLOOR LAB**  
**Machine** : **SHIMADZU**  
**Sample No.** : **1/2**  
**Dimensions of EBRP** : **503 x 278 x 61.33 mm**

**TEST RESULTS - SHORT DURATION**

**Load Duration** : **5+5 minutes**  
**Test Load** : **120 TONS**  
**Bulging Pattern** : **Uniform Buldging.**  
**Laminated Parallelism** : **Parallel**  
**Cracks** : **No crack was observed**

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

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To,  
 Resident Engineer  
 PEPAC

Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,  
 District Kasur (Package-R)(Ittefaq)

Reference # CED/TFL **33817** (Dr. Qasim Khan)

Dated: 12-09-2019

Reference of the request letter # RE/PEPAC/WWC/100-00

Dated: 12-09-2019

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

Date of Test 13-09-2019

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	0.377	3/8	0.376	0.11	0.111	3200	5300	64200	63690	106200	105500	1.00	12.5	
2	0.382	3/8	0.378	0.11	0.112	3200	5300	64200	62820	106200	104100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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