



**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 CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project  
Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Tension Test Report** (Page – 1/6)

Date of Test 25-03-2019

Gauge length 2 inches

Description U-Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(cm)	(cm <sup>2</sup> )	(kg)	(kg)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(in)		
1	U-Post	2.33x0.70	1.63	5300	7600	3249.54	4659.72	0.70	35.00	S-1
2		2.36x0.70	1.65	6100	7900	3692.49	4782.08	0.65	32.50	
3	U-Post	2.34x0.71	1.66	6000	8100	3611.41	4875.41	0.65	32.50	S-2
4		2.34x0.71	1.66	6100	7800	3671.60	4694.84	0.65	32.50	
5	U-Post	2.33x0.71	1.65	5900	8000	3566.46	4835.88	0.60	30.00	S-3
6		2.33x0.71	1.65	5500	7500	3324.67	4533.64	0.65	32.50	
7	U-Post	2.30x0.72	1.66	5400	7800	3260.87	4710.14	0.70	35.00	S-4
8		2.30x0.72	1.66	5700	8000	3442.03	4830.92	0.65	32.50	
9	U-Post	2.30x0.69	1.59	5500	7400	3465.66	4662.89	0.65	32.50	S-5
10		2.80x0.69	1.93	6200	8000	3209.11	4140.79	0.65	32.50	

**Only Ten Samples for Tensile Test**

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**Bend Test**


**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)
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To,  
M/S CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project  
Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Tension Test Report** (Page – 2/6)

Date of Test 25-03-2019

Gauge length 2 inches

Description U-Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(cm)	(cm <sup>2</sup> )	(kg)	(kg)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(in)		
1	U-Post	2.30x0.70	1.61	5600	7600	3478.26	4720.50	0.65	32.50	S-6
2		2.78x0.70	1.95	7100	9100	3648.51	4676.26	0.60	30.00	
3	U-Post	2.77x0.69	1.91	6800	9200	3557.79	4813.48	0.60	30.00	S-7
4		2.78x0.69	1.92	7200	8900	3753.52	4639.77	0.70	35.00	
5	U-Post	2.78x0.72	2.00	6900	9600	3447.24	4796.16	0.70	35.00	S-8
6		2.78x0.72	2.00	6500	9200	3247.40	4596.32	0.65	32.50	
7	U-Post	2.76x0.70	1.93	7200	9400	3726.71	4865.42	0.65	32.50	S-9
8		2.76x0.70	1.93	7200	9500	3726.71	4917.18	0.60	30.00	
9	U-Post	2.77x0.71	1.97	7200	9500	3660.95	4830.43	0.60	30.00	S-10
10		2.77x0.70	1.94	6400	9100	3300.67	4693.14	0.65	32.50	

**Only Ten Samples for Tensile Test**

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**Bend Test**


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

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To,  
M/S CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project  
Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Tension Test Report** (Page – 3/6)

Date of Test 25-03-2019  
Gauge length 2 inches  
Description U-Spacer Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(cm)	(cm <sup>2</sup> )	(kg)	(kg)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(in)		
1	U-Spacer	2.475x0.700	1.73	5700	8300	3290.04	4790.76	0.75	37.50	S-1
2		2.475x0.700	1.73	5600	7900	3232.32	4559.88	0.75	37.50	
3	U-Spacer	2.460x0.710	1.75	6000	8300	3435.25	4752.09	0.65	32.50	S-2
4		2.440x0.710	1.73	6000	8000	3463.40	4617.87	0.70	35.00	
5	U-Spacer	2.460x0.710	1.75	5700	7900	3263.48	4523.07	0.70	35.00	S-3
6		2.440x0.710	1.73	5600	8100	3232.51	4675.59	0.70	35.00	
7	U-Spacer	2.440x0.700	1.71	5600	7900	3278.69	4625.29	0.75	37.50	S-4
8		2.440x0.700	1.71	5600	7900	3278.69	4625.29	0.70	35.00	
Only Eight Samples for Tensile Test										
Bend Test										

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

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To,  
M/S CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project

Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Tension Test Report** (Page – 4/6)

Date of Test 25-03-2019  
Gauge length 2 inches  
Description U-Spacer Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(cm)	(cm <sup>2</sup> )	(kg)	(kg)	(kg/cm <sup>2</sup> )	(kg/cm <sup>2</sup> )	(in)		
1	U-Spacer	2.440x0.715	1.74	6100	8400	3496.50	4814.86	0.65	32.50	S-5
2		2.440x0.715	1.74	5300	7400	3037.95	4241.66	0.65	32.50	
3	U-Spacer	2.440x0.700	1.71	5600	7900	3278.69	4625.29	0.65	32.50	S-6
4		2.470x0.700	1.73	5600	7800	3238.87	4511.28	0.80	40.00	
5	U-Spacer	2.470x0.705	1.74	6000	8100	3445.60	4651.56	0.90	45.00	S-7
6		2.470x0.705	1.74	5300	7600	3043.62	4364.43	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
Only Six Samples for Tensile Test										
Bend Test										

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

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To,  
M/S CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project

Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Thickness Test Report** (Page – 5/6)

Date of Test 25-03-2019  
Gauge length -----  
Description U-Post Thickness Test

Sr. No.	Designation	Thickness	Remark
	-----	(mm)	
1	U-Post	7.00	S-1
2	U-Post	7.10	S-2
3	U-Post	7.10	S-3
4	U-Post	7.20	S-4
5	U-Post	6.90	S-5
6	U-Post	7.00	S-6
7	U-Post	6.90	S-7
8	U-Post	7.20	S-8
9	U-Post	7.00	S-9
10	U-Post	7.10	S-10
Only Ten Samples for Test			

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

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**Test Floor Laboratory**  
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**Pakistan. Ph: 92-42-99029202**

To,  
M/S CSCEC Pakistan  
Peshawar–Karachi Motorway (Sukkur–Multan Section) Project

Reference # CED/TFL **32847** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSCEC/PKM/SEC 2/2019/02

Dated: 15-03-2019

Dated: 13-03-2019

**Thickness Test Report** (Page – 5/6)

Date of Test 25-03-2019  
Gauge length -----  
Description U-Spacer Thickness Test

Sr. No.	Designation	Thickness	Remark
	-----	(mm)	
1	U-Spacer	7.00	S-1
2	U-Spacer	7.10	S-2
3	U-Spacer	7.10	S-3
4	U-Spacer	7.00	S-4
5	U-Spacer	7.15	S-5
6	U-Spacer	7.00	S-6
7	U-Spacer	7.05	S-7
-	-	-	
-	-	-	
-	-	-	
Only Seven Samples for Test			

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Project Coordinator  
 Lahore Businessmen Association for Rehabilitation of the Disabled  
 LABARD Rehabilitation & Vocational Training Centre, Harbanspura, Lahore

Reference # CED/TFL **32891** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 21-03-2019  
 Dated: 21-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3	0.369	0.11	0.107	3200	4600	64200	65820	92200	94700	1.30	16.3	
2	0.368	3	0.371	0.11	0.108	3400	4700	68200	69270	94200	95800	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 Laboratories**  
**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,  
 Executive Engineer/DOT  
 For Project Director/DOT  
 Pakistan Railways  
 Construction of 01No. Class-III Staff Quarter (BPS-16) near PWI Bunglow at Sahiwal in  
 Connection with Doubling of Track on KWL-RND Section  
 Reference # CED/TFL **32894** (Dr. M Rizwan Riaz) Dated: 21-03-2019  
 Reference of the request letter # 211-W/301-B/DOT/KWL-RND Dated: 21-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend 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	0.344	3/8	0.359	0.11	0.101	3000	5000	60200	65370	100200	109000	0.80	10.0	
2	0.351	3/8	0.362	0.11	0.103	2700	4500	54100	57740	90200	96300	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.**

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To,  
DGM Civil (Line-III)  
MLCF Iskanderabad  
Civil Works of 7300 TPD New Line-III, MLCFL

Reference # CED/TFL **32896** (Dr. M Rizwan Riaz)  
Reference of the request letter # MLCFL/LINE-III/CIVIL/2019/16

Dated: 21-03-2019  
Dated: 27-02-2019

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

Date of Test 25-03-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		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	0.409	10	9.94	0.11	0.120	3600	5600	72200	66000	112300	102700	1.20	15.0	
2	0.409	10	9.94	0.11	0.120	3700	5600	74200	67760	112300	102600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**UET Lahore, Pakistan.**

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

To,  
M/s Equator Engineering Services  
Chak Shehzad  
CMPAK Project Site id-51896

Reference # CED/TFL **32897** (Dr. M Rizwan Riaz)  
Reference of the request letter # Equator/Steel/CMPAK/019

Dated: 21-03-2019  
Dated: 18-03-2019

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

Date of Test 25-03-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		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	0.355	10	9.26	0.11	0.104	3900	4700	78200	82350	94200	99300	1.10	13.8	
2	0.355	10	9.25	0.11	0.104	3900	4700	78200	82460	94200	99400	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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**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 AZ Engineering Associates  
 Construction of Fly over at Shahabpur Chowk Defence Road Sialkot  
 (Kamran Steel)

Reference # CED/TFL **32899** (Dr. M Rizwan Riaz)  
 Reference of the request letter # RE/SKT-45

Dated: 21-03-2019  
 Dated: 05-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	3300	4700	66200	67640	94200	96400	1.30	16.3	
2	0.367	3	0.370	0.11	0.108	3300	4700	66200	67520	94200	96200	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.**

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 Executive Engineer IV  
 Central Civil Division No. II  
 Pak P.W.D., Lahore  
 (Construction of Additional Floor in Existing Transit Accommodation (Land Revenue) Sutluj  
 Block allama Iqbal Town, Lahore  
 Reference # CED/TFL **32902** (Dr. M Rizwan Riaz)  
 Reference of the request letter # AEE/LCCD-II/11

Dated: 22-03-2019  
 Dated: 15-03-2019

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

Date of Test 25-03-2019  
 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	0.372	3/8	0.373	0.11	0.109	3500	4900	70200	70600	98200	98900	1.40	17.5	
2	0.363	3/8	0.368	0.11	0.107	3300	4800	66200	68210	96200	99300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
<b>Bend Test</b>														

**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



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

To,  
 Executive Engineer  
 University of Sargodha  
 Construction of Administration Block University College of Engineering & Technology,  
 University of Sargodha

Reference # CED/TFL **32904** (Dr. M Rizwan Riaz)  
 Reference of the request letter # SU/XEN/383

Dated: 22-03-2019  
 Dated: 21-03-2019

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

Date of Test 25-03-2019  
 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	0.380	3/8	0.377	0.11	0.112	3500	4600	70200	69040	92200	90800	1.20	15.0	
2	0.378	3/8	0.376	0.11	0.111	3400	4600	68200	67380	92200	91200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
<b>Bend Test</b>														

**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



**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 Memar Associates  
Faisalabad  
(MCB Kechery Road Mandi Bahauddin Branch)

Reference # CED/TFL **32905** (Dr. M Rizwan Riaz)  
Reference of the request letter # Memar/RC/MCB/05

Dated: 22-03-2019  
Dated: 21-03-2019

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

Date of Test 25-03-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.372	0.11	0.109	3800	5000	76200	76880	100200	101200	1.10	13.8	
2	0.373	3	0.374	0.11	0.110	3800	5000	76200	76330	100200	100500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**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



**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  
 Icon Valley  
 Icon Residencia, Lahore  
 (Mughal Steel)

Reference # CED/TFL **32907** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 22-03-2019  
 Dated: 22-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3400	4800	68200	68130	96200	96200	1.00	12.5	
2	0.371	3	0.373	0.11	0.109	3400	4700	68200	68630	94200	94900	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



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

To,  
 Resident Engineer  
 AL-Imam Enterprises Pvt Ltd  
 Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **32908** (Dr. M Rizwan Riaz)  
 Reference of the request letter # AImam/746/PS-1/DHA/LHE/809

Dated: 22-03-2019  
 Dated: 18-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		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	0.407	10	9.91	0.11	0.120	3700	5400	74200	68180	108200	99600	1.30	16.3	
2	0.410	10	9.95	0.11	0.121	3700	5400	74200	67620	108200	98700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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,  
 Sub Divisional Officer  
 Highway Sub Division No. I  
 Gujranwala  
 (Widening/Improvement of Road from Tatlay Aali Nowshera Vikkan Road to Bhadday &  
 Bhadday to Kotli Mansoo via Tatlay Aali (Tatlay Aali Bypass Eastern Side) Length = 7.02 km in  
 Tehsil Nowshera Virkan District Gujranwala  
 Reference # CED/TFL **32909** (Dr. M Rizwan Riaz) Dated: 22-03-2019  
 Reference of the request letter # 1934 Dated: 19-03-2019

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

Date of Test 25-03-2019  
 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	0.379	3	0.377	0.11	0.112	3600	4300	72200	71150	86200	85000	1.10	13.8	
2	0.379	3	0.377	0.11	0.112	3600	4300	72200	71150	86200	85000	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  
[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,  
 Deputy Director Engg  
 Gujranwala Development Authority  
 Gujranwal  
 (Construction of Road along Both Sides of Upper Chenab Canal from G.T Road Bridge (Haji Murad Trust Eye Hospital) to Bye Pass near WAPDA Town Gujranwala (West Side/Right Side))  
 Reference # CED/TFL **32910** (Dr. M Rizwan Riaz) Dated: 22-03-2019  
 Reference of the request letter # GDA/DDE/284 Dated: 20-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend 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	0.390	3/8	0.382	0.11	0.115	3100	4900	62200	59640	98200	94300	1.60	20.0	
2	0.389	3/8	0.381	0.11	0.114	3200	4900	64200	61740	98200	94600	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														

**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)
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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,  
GM Engineering  
Cotton Web Limited  
Construction of Extension Building # 1

Reference # CED/TFL **32911** (Dr. M Rizwan Riaz)  
Reference of the request letter # CW/Admin/10101

Dated: 22-03-2019  
Dated: 22-03-2019

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

Date of Test 25-03-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3	0.371	0.11	0.108	3100	5000	62200	63040	100200	101700	1.30	16.3	SJ
2	0.375	3	0.375	0.11	0.110	3200	5100	64200	63920	102200	101900	1.30	16.3	City
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**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.
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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,  
 Engr. Asim  
 M/s Fabcon Design and Engineering (Pvt) Ltd  
 Construction of Infra Structure for 109AED at PAF Base Lahore

Reference # CED/TFL **32912** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 22-03-2019  
 Dated: 22-03-2019

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

Date of Test 25-03-2019  
 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	0.386	3	0.380	0.11	0.113	2800	4000	56200	54380	80200	77700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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,  
 Project Manager  
 Liberty Builders  
 Construction of Zee Avenue Project, 17-A, Cooper Road, Lahore  
 (KSR Steel)

Reference # CED/TFL **32913** (Dr. M Rizwan Riaz)  
 Reference of the request letter # CONC-20190322

Dated: 22-03-2019  
 Dated: 22-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.111	3500	5700	70200	69810	114300	113700	0.80	10.0	
2	0.397	3	0.386	0.11	0.117	4000	6300	80200	75480	126300	118900	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:

- 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,  
District Controller of Purchase/Inspection  
Pakistan Railways GERAL Store MGPR

Reference # CED/TFL **32914** (Dr. M Rizwan Riaz)  
Reference of the request letter # CSF/503/P/2018/R.S.

Dated: 22-03-2019

Dated: 20-03-2019

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

Date of Test 25-03-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test

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	0.129	5.5	5.59	-----	0.038	1400	1900	-----	81140	-----	110200	0.30	3.8	A
2	0.129	5.5	5.59	-----	0.038	1400	2000	-----	81210	-----	116100	0.30	3.8	B
3	0.129	5.5	5.58	-----	0.038	1300	1900	-----	75660	-----	110600	0.30	3.8	C
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only three samples for tensile test</b>														
<b>Bend Test</b>														

**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



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

To,  
 Manager Construction Projects  
 Allied Bank  
 Construction of ABL Building at Kot Lakhpat, Lahore

Reference # CED/TFL **32915** (Dr. M Rizwan Riaz)  
 Reference of the request letter # HOL/Engg. C.P./SM/2019/

Dated: 25-03-2019  
 Dated: 21-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.111	3600	4700	72200	71800	94200	93800	0.90	11.3	
2	0.375	3	0.375	0.11	0.110	3700	5000	74200	73910	100200	99900	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														

Witness by Hanif Bashir (ABL)

**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



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

Ref: CED/TFL/03/32917

Dated: 25-03-19

To

**Chief Engineer**  
**Phoenix Aviation (Private Limited**  
**Lahore**

**Subject: - AIRCRAFT JACKS FOR LOAD TEST**

Reference to your letter no. PAL/Load Test/2019-02, Dated: 18/03/2019 on the above mentioned subject. Two aircraft jacks as received by us have been tested. The results are as follows.

Sr. No.	Jack No.		Applied Load (lbs)	Sustained Load for 5 minutes (lbs)
	Part No.	Serial no.		
1	02-7056-0100	3749070702	10,000	10,000
2	02-7056-0100	3749070703	10,000	10,000

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

Note:

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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





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

To,  
 Manager Construction Projects  
 Allied Bank  
 Construction of ABL Building at 3-Babar Block, Lahore

Reference # CED/TFL **32918** (Engr. M Rizwan Riaz)  
 Reference of the request letter # HOL/ENGG. C.P/SM/2019/

Dated: 25-03-2019  
 Dated: 25-03-2019

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

Date of Test 25-03-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend 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	0.400	3/8	0.387	0.11	0.118	3900	5100	78200	73060	102200	95600	1.50	18.8	
2	0.406	3/8	0.390	0.11	0.119	3900	5300	78200	72070	106200	98000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<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														

Witness by Hanif Bashir (ABL)

**I/C Testing Laboratories**  
**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.
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