



**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  
(Infra Dev works, Ph-IX (Prism), (Pkg-III IV), DHA Ph-IX)(M/s NLC)(Jamal)

Reference # CED/TFL **33972** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/730/504

Dated: 07-10-2019  
Dated: 07-10-2019

**Tension Test Report** (Page – 1/1)

Date of Test 11-10-2019  
Gauge length 2 inches  
Description MS Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Pipe	16	27.70x5.90	163.43	5200	7500	312.13	450.19	0.70	35.00	
2		16	27.70x5.90	163.43	5400	7700	324.14	462.20	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Pipe (16") 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.
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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Macrise (Pvt) Ltd  
Valencia Town, Lahore  
(Infra Dev Works, Silo Foundation Base Plate)

Reference # CED/TFL **33987** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 09-10-2019  
Dated: 09-10-2019

**Tension Test Report** (Page – 1/1)

Date of Test 11-10-2019

Gauge length 2 inches

Description MS Plate Steel Strip Tensile and Bend Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Plate	20	25.10x20.10	504.51	14300	21400	278.06	416.11	1.00	50.00	
2		20	25.10x20.10	504.51	14500	21800	281.95	423.89	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Plate (20mm) Bend Test Through 180° is Satisfactory											

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

Note:

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To,  
DCRE/RE-1  
Zeeruk International (Pvt) Ltd  
Lahore Sialkot Motorway Project

Reference # CED/TFL **33989** (Dr. Waseem Abbas)  
Reference of the request letter # LSM/RE-1/2019/1134

Dated: 09-10-2019  
Dated: 09-10-2019

**Tension Test Report** (Page – 1/1)

Date of Test 11-10-2019  
Gauge length -----  
Description Chain Link Mesh Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.10	3.78	
2	3.05	4.15	
3	3.10	4.12	
4	3.10	4.27	
5	3.05	4.12	
6	3.10	3.95	
-	-	-	
-	-	-	
Only Six Samples for Test			

**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,  
 Project Manager  
 The Superior College Lahore  
 Superior House  
 (Raees Faheem & Associates)(Ittefaq Building Solution)

Reference # CED/TFL **33990** (Dr. Usman Akmal)  
 Reference of the request letter # Naheed Palace/03

Dated: 10-10-2019  
 Dated: 10-10-2019

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

Date of Test 11-10-2019  
 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	0.364	3	0.369	0.11	0.107	3300	5100	66200	68030	102200	105200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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:

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**STRUCTURAL ENGINEERING DIVISION**  
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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Infra Dev Works Prism-9, Pkg-8 - DHA Ph-9)(M/s Maaksons)

Reference # CED/TFL **33991** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/721/12889

Dated: 10-10-2019  
Dated: 30-09-2019

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

Date of Test 11-10-2019  
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	0.383	3	0.379	0.11	0.113	3100	4700	62200	60630	94200	92000	1.20	15.0	Pak Steel
2	0.380	3	0.377	0.11	0.112	3000	4700	60200	59230	94200	92800	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.**

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Asif Ali & Associates Jv Associated Consultancy Center (Pvt) Limited  
 TurkPak International (Pvt) Limited  
 Improvement/Widening of Thokar Niaz Baig – Hudiyara Drain Section of N-5  
 (FF Steel)  
 Reference # CED/TFL **33992** (Dr. Usman Akmal)  
 Reference of the request letter # THDP/RE/01/416

Dated: 10-10-2019

Dated: 14-09-2019

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

Date of Test 11-10-2019

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	0.426	10	10.15	0.12	0.125	4200	5350	77161	73850	98288	94100	1.40	17.5	
2	0.424	10	10.12	0.12	0.125	4200	5250	77161	74230	96451	92800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Mr. Mehboob Alam  
 Ch. Naveed Ahmad  
 Proposed Commercial Building  
 At Plot No. 85-B, D/1, Gulberg-II, Lahore

Reference # CED/TFL **33993** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 10-10-2019  
 Dated: 10-10-2019

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

Date of Test 11-10-2019  
 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	0.380	3	0.377	0.11	0.112	3250	4850	65200	64210	97200	95900	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	3200	4800	64200	64360	96200	96600	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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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Senior Manager Civil - OTL  
 Orient  
 Orient Sqaure Hostel Tower Project FTC Johar Town, Lahore  
 (Afco Steel)

Reference # CED/TFL **33995** (Dr. Usman Akmal)

Dated: 10-10-2019

Reference of the request letter # ORIENT/AFCO/Hostel Tower/Steel/009

Dated: 10-10-2019

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

Date of Test 11-10-2019

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	4.114	32	31.52	1.25	1.209	39400	61800	69489	71810	108995	112700	1.10	13.8	
2	4.063	32	31.32	1.25	1.194	39200	61200	69136	72350	107937	113000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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

To,  
 Sub Divisional Officer  
 Buildings Sub Division No. 9  
 Lahore  
 (Construction of Provincial Police Line Highway Patrol at Jia Bagga Lahore)

Reference # CED/TFL **33996** (Dr. Usman Akmal)  
 Reference of the request letter # 183/9<sup>th</sup>

Dated: 10-10-2019  
 Dated: 02-10-2019

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

Date of Test 11-10-2019  
 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	0.390	3/8	0.382	0.11	0.115	4100	5150	82200	78880	103200	99100	1.10	13.8	
2	0.381	3/8	0.378	0.11	0.112	4000	5250	80200	78670	105200	103300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
<b>Bend Test</b>														

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

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**STRUCTURAL ENGINEERING DIVISION**  
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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/10/33997

Dated: 10-09-

19

Dated of Test: 11-09-19

To

**Chief Executive Officer**

**Pak Matiari-Lahore Transmission Company (Pvt) Ltd**

**+660kV Matiari-Lahore HVDC Transmission Project Lot-IV in Rahim Yar Khan**

**Subject:- CALIBRATION OF COMPRESSION TESTING MACHINE**

**(MARK: CED/TFL/10/33997) (Page -1/2)**

Reference to your letter No. MLTC-UET-19-2792, dated: 30/09/2019 on the subject cited above. One Compression Testing Machine (Model YE-2000C) has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 2000 (kN)  
Calibrated Range : Zero - 1800 (kN)

Sr. No.	Machine Reading (kN)	Corrected Load Value (kN)
1	100	96
2	200	197
3	300	299
4	400	398
5	500	501
6	600	602
7	700	703
8	800	805
9	900	902

Sr. No.	Machine Reading (kN)	Corrected Load Value (kN)
10	1000	1000
11	1100	1098
12	1200	1193
13	1300	1294
14	1400	1395
15	1500	1491
16	1600	1593
17	1700	1697
18	1800	1799

Note: The calibration of machine is carried out according to the approved ASTM C39/C39M-18 loading rate of 0.25 + 0.05 MPa/sec (3.5kN/sec to 5.0 kN/sec).

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/10/33997

Dated: 10-09-

19

Dated of Test: 11-09-19

To

Chief Executive Officer

Pak Matiari-Lahore Transmission Company (Pvt) Ltd

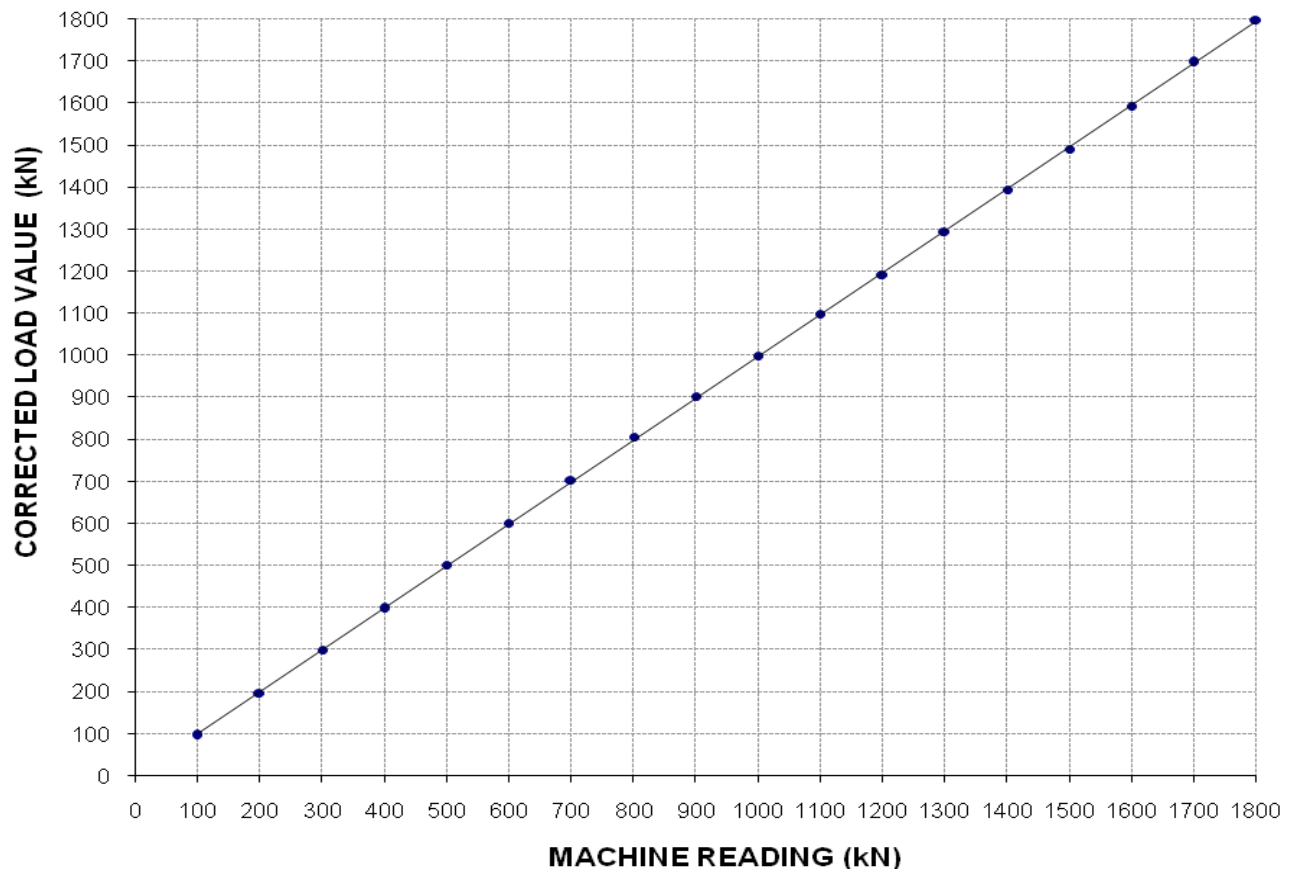
+660kV Matiari-Lahore HVDC Transmission Project Lot-IV in Rahim Yar Khan

Subject:- CALIBRATION OF COMPRESSION TESTING MACHINE

(MARK: CED/TFL/10/33997) (Page -2/2)

**COMPRESSION TESTING MACHINE (2000 kN)**

**Callibrated Value (kN) = (0.997 x Machine Reading (kN) + 0.784**



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

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To,  
P.M (Wan Bhachran/Chashma)  
PAEC-WASO  
Construction of 04 Rooms for RWI Building for C3/C4 at Chashma

Reference # CED/TFL **33998** (Dr. Usman Akmal) Dated: 10-10-2019  
Reference of the request letter # PD(CH)/WASO/C3&C4/94/18/1181 Dated: 09-10-2019

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

Date of Test 11-10-2019  
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	0.383	3	0.378	0.11	0.112	4100	5000	82200	80350	100200	98000	1.10	13.8	
2	0.382	3	0.378	0.11	0.112	4100	4900	82200	80400	98200	96100	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:

- 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)
- The above results pertain to sample /samples supplied to this laboratory.
- 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,  
 Engineer Hawris Ahmad  
 Lahore  
 The Construction of Mosque J-2, Wapda Town, Lahore  
 (Ittefaq Steel)  
 Reference # CED/TFL **34002** (Dr. Rizwan Raiz)  
 Reference of the request letter # Nil

Dated: 11-10-2019  
 Dated: 11-10-2019

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

Date of Test 11-10-2019  
 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	0.374	3/8	0.374	0.11	0.110	3600	5700	72200	72240	114300	114400	1.20	15.0	60
2	0.383	3/8	0.379	0.11	0.113	2700	4000	54100	52800	80200	78300	1.70	21.3	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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  
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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