



**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, DHA, Lahore

Reference # CED/TFL **34193** (Dr. Ali Ahmed)

Dated: 18-11-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1003

Dated: 15-11-2019

**Tension Test Report** (Page -1/4)

Date of Test 26-11-2019

Gauge length 8 inches

Description J-Bolt Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	6.023	32	31.26	-----	767.3	26600	41600	340	532	2.40	30.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
Bend Test												

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

Note:

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Dated: 18-11-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1003

Dated: 15-11-2019

**Tension Test Report** (Page -2/4)

Date of Test 26-11-2019

Gauge length 2 inches

Description Steel Plate Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Square Tube	150x150x8	28.10x6.20	174.22	5200	5800	292.80	326.59	0.80	40.00	
2		150x150x8	28.20x6.20	174.84	5300	6000	297.37	336.65	0.90	45.00	
3	Rectangle Tube	100x50x6	28.10x5.10	143.31	6500	7500	444.94	513.40	0.65	32.50	
4		100x50x6	28.10x5.10	143.31	6700	7600	458.64	520.24	0.65	32.50	
5	Round Pipe	200	28.20x7.30	205.86	6200	8800	295.45	419.35	0.75	37.50	
6		200	28.20x7.30	205.86	6400	9000	304.98	428.88	0.70	35.00	
<b>Only Six Samples for Tensile Test</b>											
<b>Bend Test</b>											

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Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34193** (Dr. Ali Ahmed)  
Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1003

Dated: 18-11-2019  
Dated: 15-11-2019

**Weight & Size Test Report** (Page – 3/4)

Date of Test 26-11-2019  
Gauge length -----  
Description Tube Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Outer Dimension		Wall Thickness	Remark
						X	Y		
	(mm)		(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	Square Tube	150x150x8	8475	30.40	27.88	151.10	150.50	6.20	
2	Rectangle Tube	100x50x6	3442	30.50	11.29	100.20	51.75	5.20	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>									

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**UET Lahore, Pakistan.**

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Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34193** (Dr. Ali Ahmed)

Dated: 18-11-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1003

Dated: 15-11-2019

**Weight & Size Test Report** (Page – 4/4)

Date of Test 26-11-2019

Gauge length -----

Description Round Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	200	11722	30.30	38.69	219.00	204.40	7.30	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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**Test Floor Laboratory**  
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**University of Engineering and Technology Lahore, 54890**  
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Ref: CED/TFL/11/34202

Dated: 20-11-19

Dated of Test: 26-11-2019

To  
**Resident Engineer**  
**ACES**  
M/S Raimakers Rumanza Golf Course, DHA, Multan

**Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/34202)**

Reference to your Letter No. ACES-DHAM-RGG-094, dated: 13/11/2019 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

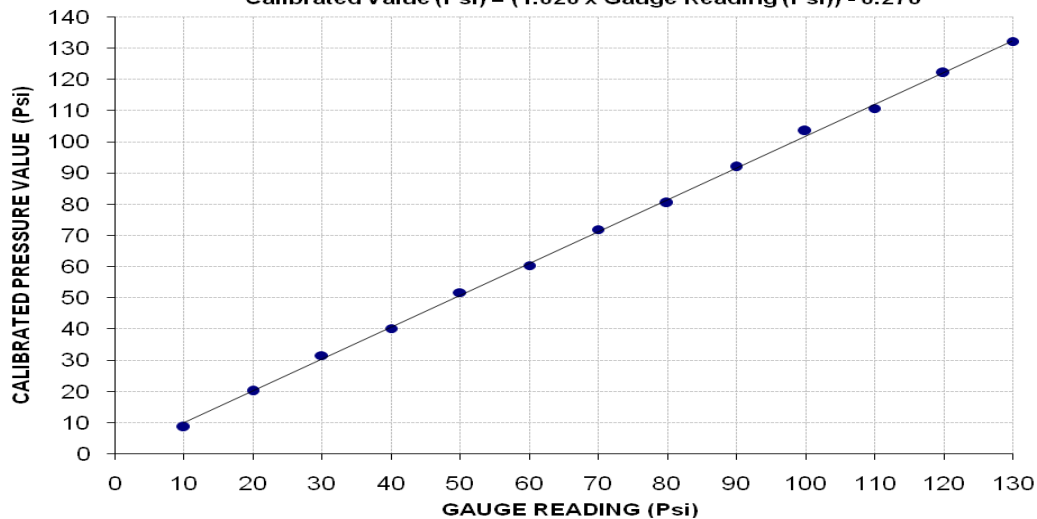
**Total Range : Zero - 150 (Psi)**  
**Calibrated Range : Zero - 130 (Psi)**

Pressure Gauge Reading (Psi)	10	20	30	40	50	60	70	80	90	100	110	120	130
Calibrated Load (kg)	120	280	440	560	720	840	1000	1120	1280	1440	1540	1700	1840
Calibrated Pressure (Psi)	8.62	20.11	31.61	40.23	51.72	60.34	71.83	80.45	91.95	103.44	110.62	122.12	132.17

The Ram Area of Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge**

Calibrated Value (Psi) = (1.020 × Gauge Reading (Psi)) - 0.276



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To,  
Deputy CRE  
Zeeruk International (Pvt) Ltd  
Lahore Sialkot Motorway Project  
(759 CTE FWO LSMP)(Munir Industries Lahore)  
Reference # CED/TFL **34211** (Dr. Ali Ahmed)  
Reference of the request letter # LSM/RE-II/St/19/721

Dated: 22-11-2019  
Dated: 22-11-2019

**Tension Test Report** (Page – 1/1)

Date of Test 26-11-2019  
Gauge length -----  
Description Galvanized Mesh Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.10	4.20	
2	3.10	4.20	
3	3.10	4.27	
4	3.10	4.45	
5	3.10	4.22	
6	3.10	4.35	
7	3.10	3.95	
8	3.10	4.10	
9	3.10	4.00	
10	3.10	4.57	
11	3.10	4.40	
12	3.10	4.15	
Only Twelve Samples for Test			

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To,  
 Assistant Project Director  
 PMU-SBP Sahiwal  
 (Construction of Tehsil Sports Complex at Public Sports Stadium, Depalpur Okara)

Reference # CED/TFL **34214** (Dr. Ali Ahmed) Dated: 25-11-2019  
 Reference of the request letter # APD/PMU/SBP/SWL/19/111 Dated: 20-11-2019

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

Date of Test 26-11-2019  
 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	0.360	3/8	0.367	0.11	0.106	2600	3900	52100	54150	78200	81300	1.60	20.0	
2	0.361	3/8	0.368	0.11	0.106	2700	4000	54100	56050	80200	83100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
 Resident Engineer  
 Asif Ali & Associates (Pvt.) Limited  
 ACC – TurkPak  
 Improvement/Widening of Thokar Niaz Baig – Hudiyara Drain Section of N-5

Reference # CED/TFL **34215** (Dr. Ali Ahmed)  
 Reference of the request letter # THDP/RE/01/443

Dated: 25-11-2019  
 Dated: 25-10-2019

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

Date of Test 26-11-2019  
 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	0.423	10	10.11	0.12	0.124	4500	5700	82673	79780	104719	101100	1.00	12.5	
2	0.427	10	10.16	0.12	0.126	4400	5600	80835	77200	102881	98300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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To,  
 Manager (TS) S&F  
 KCP Complex Jauharabad

Reference # CED/TFL **34216** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 25-11-2019  
 Dated: 25-11-2019

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

Date of Test 26-11-2019  
 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	0.376	3/8	0.375	0.11	0.111	2800	4100	56200	55830	82200	81800	1.70	21.3	
2	0.378	3/8	0.376	0.11	0.111	2800	4100	56200	55500	82200	81300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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