



**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  
 Amad Anwar & Partners  
 Construction of Community Club DHA Phase – VIII (Ex – Park View)DHA, Lahore (M/s  
 United Engineering & Contractors)/(Defence Housing Authority)

Reference # CED/TFL **34287** (Dr. Ali Ahmed)  
 Reference of the request letter # DHA Club-A/Arch/202

Dated: 09-12-2019  
 Dated: 28-11-2019

**Tension Test Report** (Page – 1/1)

Date of Test 10-12-2019  
 Gauge length 2 inches  
 Description MS Pipe Seamless Steel Strip Tensile and Bend Test as per ASTM A-53

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	4	26.40x5.30	139.92	5500	7400	385.61	518.83	0.60	30.00	
2		26.40x5.30	139.92	5600	7400	392.62	518.83	0.60	30.00	
3	5	26.50x6.20	164.30	6200	8700	370.19	519.46	0.60	30.00	
4		26.50x6.20	164.30	6500	9000	388.10	537.37	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile and Two Samples for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from MS Seamless Pipe 4" Dia Bend Test Through 180° is Satisfactory										
Strip Taken from MS Seamless Pipe 5" Dia Bend Test Through 180° is Satisfactory										

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

**Note:**

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
 Resident Engineer  
 NESPAK  
 Construction of DHA Office Complex, DHA Bahawalpur  
 (City UAE)

Reference # CED/TFL **34288** (Dr. Ali Ahmed)  
 Reference of the request letter # 4401/NY/05/16

Dated: 09-12-2019  
 Dated: 03-12-2019

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

Date of Test 10-12-2019  
 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	0.384	3	0.379	0.11	0.113	3300	5200	66200	64490	104200	101700	1.10	13.8	
2	0.384	3	0.379	0.11	0.113	3400	5200	68200	66390	104200	101600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two 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.**

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To,  
 Sub Divisional Officer  
 Highway Sub Division  
 Kamoke  
 (Widening/Rehabilitation of Road from Lalupur to Kassuki L=5.32km)

Reference # CED/TFL **34290** (Dr. Ali Ahmed)  
 Reference of the request letter # 102/K

Dated: 09-12-2019  
 Dated: 03-12-2019

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

Date of Test 10-12-2019  
 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	0.324	3/8	0.348	0.11	0.095	2400	3200	48100	55500	64200	74000	1.70	21.3	
2	0.322	3/8	0.347	0.11	0.095	2400	3100	48100	55880	62200	72200	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two sample 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,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Proposed Commerical Plaza, DRGCC, Ph-III, DHA Ph-VI (M/s Construct))

Reference # CED/TFL **34291** (Dr. Ali Ahmed) Dated: 10-12-2019  
Reference of the request letter # 408/241/E/Lab/794/4242 Dated: 09-12-2019

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

Date of Test 10-12-2019  
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	3500	5000	70200	70730	100200	101100	1.10	13.8	Kamran Steel
2	0.370	3	0.372	0.11	0.109	3400	5000	68200	68930	100200	101400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Project Manager  
 Liberty Builders  
 (Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore)

Reference # CED/TFL **34294** (Dr. Safer Abbas)  
 Reference of the request letter # ST/UET/20191210

Dated: 10-12-2019  
 Dated: 10-12-2019

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

Date of Test 10-12-2019  
 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	0.385	3	0.380	0.11	0.113	3400	4900	68200	66230	98200	95500	1.10	13.8	Model
2	0.377	3	0.376	0.11	0.111	3400	4800	68200	67550	96200	95400	1.30	16.3	
3	0.381	3	0.378	0.11	0.112	3200	4600	64200	62950	92200	90500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
# 3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Resident Engineer  
 Orbit Housing  
 The Spring Apartment Homes

Reference # CED/TFL **34295** (Dr. Safer Abbas)  
 Reference of the request letter # Nil

Dated: 10-12-2019  
 Dated: 10-12-2019

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

Date of Test 10-12-2019  
 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	0.403	3	0.388	0.11	0.118	4100	5200	82200	76380	104200	96900	1.00	12.5	
2	0.401	3	0.387	0.11	0.118	4200	5200	84200	78600	104200	97400	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														

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

Reference # CED/TFL **34297** (Dr. Waseem Abbas) Dated: 10-12-2019  
 Reference of the request letter # ORIENT/AFCO/Hostel Tower/Steel/015 Dated: 10-12-2019

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

Date of Test 10-12-2019  
 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	4.110	32	31.50	1.25	1.208	34400	57600	60671	62760	101588	105100	1.60	20.0	
2	4.252	32	32.04	1.25	1.250	36400	60400	64198	64190	106526	106600	1.50	18.8	
3	4.100	32	31.47	1.25	1.205	35000	57400	61729	64010	101235	105000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile test</b>														
Bend Test														

Witness by M Umair (Orient), M Imran (Afco Steel) & Abdul Basit Ali (Izhar)

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