

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

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

Reference # CED/TFL **33392** (Dr. M Rizwan Riaz) Dated: 17-06-2019 Reference of the request letter # LSMP/RE-1/2019/862 Dated: 17-06-2019

**Tension Test Report** (Page – 1/1)

Date of Test 24-06-2019

Gauge length -----

Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter Single Wire	Breaking Load	Remarks							
	(mm)	(kN)								
1	3.05	3.10								
2	3.05	3.20								
3	3.10	3.35								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
	Only Three Samples for Test									

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: <u>CED/TFL/06/33399</u> Dated: <u>14-06-19</u>

To Project Director Park Avenue Housing Scheme, Infrastructural Development Works at Park Avenue Housing Scheme, Lahore

Subject: TESTING OF R.C.C. PIPE [ASTM-C76]

Reference to your letter No. Nil, dated 18.06.2019 on the subject cited above. Four R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
•	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.376	2.225	275.00	222.34	26.33	6400	11000	126.91	218.13
2	304.8 (12")	2.375	2.240	405.00	302.26	51.37	9300	11200	134.75	162.28
3	457.2 (18")	2.364	2.239	585.00	451.74	66.63	12400	15000	120.27	145.48
4	914.4 (36")	2.419	2.314	1124.00	928.80	97.60	15910	19870	72.62	90.69

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

To,

Resident Engineer VO-2 M-2 Associated Consultancy Center Jv Prime Engineering

Construction of Additional Lanes on Motorway (M-2) between Ravi Toll Plaza and Faizpur Interchange

Reference # CED/TFL **33411** (Dr. M Rizwan Riaz) Dated: 19-06-2019 Reference of the request letter # RE/VO2-M2/99 Dated: 17-06-2019

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

Date of Test 24-06-2019

Gauge length -----

Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter Single Wire	Breaking Load	Remarks							
	(mm)	(kN)								
1	3.00	3.60								
2	3.00	3.60								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
	Only Two Samples for Test									

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,
Project Manager
Xinjing Beixin Road & Bridge Group Co. Ltd
Construction of National Motorway M-4 Shorkot - Khanewal Section Project ICB-M4-IIIB:
Dinpur-Shamkot Section (34.28km)

Reference # CED/TFL **33416** (Dr. M Rizwan Riaz) Dated: 20-06-2019 Reference of the request letter # BX/M4/Gen/3B/2019/513 Dated: 20-06-2019

**Tension Test Report** (Page – 1/1)

Date of Test 24-06-2019

Gauge length -----

Description Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter Single Wire	Breaking Load	Remarks							
	(mm)	(kN)								
1	3.00	3.90								
2	3.00	3.90								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
	Only Two Samples for Test									

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 Engineer Mansoor Mazhar & Associates 5 Marla Model House, Parkview Villas, Lahore

Reference # CED/TFL **33418** (Dr. M Rizwan Riaz) Dated: 21-06-2019 Reference of the request letter # MMA/PVV/5M.H/S.T/02 Dated: 21-06-2019

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

Date of Test 24-06-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks								
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	Re								
1	0.377	3	0.375	0.11	0.111	3100	5000	62200	61710	100200	99600	1.00	12.5									
2	0.378	3	0.376	0.11	0.111	3300	5000	66200	65540	100200	99300	0.80	10.0									
-	-	-	-	-	-	-	_	-	-	-	-	-	-									
-	-	-	-	-	-	-	_	-	-	_	-	-	-									
-	-	-	-	-	-	-	_	-	-	_	-	-	-									
-	-	-	-	-	-	-	-	-	-	-	-	-	-									
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test											
							Bend T	est														
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory					#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, Acting Project Director Air University Multan Campus Construction of Academic Block-I (Ittefaq Steel)

Reference # CED/TFL **33419** (Dr. M Rizwan Riaz) Dated: 21-06-2019 Reference of the request letter # MUX/AUMC/AB1/2018/92 Dated: 20-06-2019

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

Date of Test 24-06-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.368	3	0.371	0.11	0.108	2600	4200	52100	52930	84200	85500	1.40	17.5	
2	0.376	3	0.375	0.11	0.111	2900	4500	58200	57790	90200	89700	1.40	17.5	
-	ı	-	ı	ı	-	-	-	-	-	-	-	-	-	
-	•	-	1	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			·
				1000			Bend T	est est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

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,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works (Pkg-II, III & IV), DHA PH-IX (Prism)(M/s NLC)

Reference # CED/TFL **33421** (Dr. M Rizwan Riaz) Dated: 21-06-2019

Reference of the request letter # 408/241/E/Lab/618/16053 Dated: 21-06-2019

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

Date of Test 24-06-2019

Gauge length ---

Description Deformed Steel Bar Tensile Test as per ASTM-A496

Sr. No.	Weight						Yield load	Breaking Load		Stress pa)	Ultimat (M	Remarks
S	(Kg/m)	Nominal (in) Actual (mm)		Nominal	(kg)		(kg)	Nominal	Actual	Nominal	Actual	Re
1	0.265	1/4	6.56	32.26	33.80	1300	1700	395	377	517	493	
2	0.251	1/4	6.37	32.26	31.92	1100	1600	335	338	487	492	
-	ı	ı	-	-	-	-	-	-	-	-	-	
-	ı	ı	-	-	-	-	-	-	-	-	-	
-	ı	ı	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
				No	te: only	y two san	nples for	tensile te	st	1		
						Bend	d Test					
	Denu Test											
	-				-		-		-			

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### Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To, M/S Ahad and Associates Lahore (76-A Commercial Plaza, Gulberg, Lahore)

Reference # CED/TFL **33422** (Dr. M Rizwan Riaz)

Reference of the request letter # Nil

Dated: 24-06-2019

Dated: 24-06-2019

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

Date of Test 24-06-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.364	3	0.369	0.11	0.107	4400	5500	88200	90760	110200	113500	0.60	7.5	
-	ı	ı	-	ı	ı	-	-	ı	-	-	-	-	-	
-	1	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample fo	or bend t	est	1		
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

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