



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 Phase-IX) (M/s NLC)

Reference # CED/TFL **34788** (Dr. Waseem Abbass)
Reference of the request letter # 408/241/E/Lab/867/2183

Dated: 05-03-2020
Dated: 03-03-2020

Tension Test Report (Page – 1/1)

Date of Test 10-03-2020
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)										
1	MS Pipe	16	21.40x6.00	128.40	3500	6100	267.41	466.05	0.70	35.00	
2		16	21.40x6.00	128.40	3600	6100	275.05	466.05	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:

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To,
 Deputy CRE
 Zeeruk International (Pvt) Ltd
 Lahore Sialkot Motorway Project

Reference # CED/TFL **34794** (Dr. Waseem Abbass)
 Reference of the request letter # LSM/DCRE/2020/1559

Dated: 05-03-2020
 Dated: 05-03-2020

Tension Test Report (Page – 1/1)

Date of Test 10-03-2020
 Gauge length 2 inches
 Description Steel W- Beam & Steel Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Steel W- Beam	2.34x0.28	0.66	2700	3400	4121	5189	0.40	20.00	S # 1
2		2.34x0.28	0.66	2800	3500	4274	5342	0.50	25.00	
3	Steel W- Beam	2.32x0.28	0.65	2500	3300	3849	5080	0.45	22.50	S # 2
4		2.32x0.28	0.65	2700	3600	4156	5542	0.45	22.50	
5	Steel Post	2.33x0.71	1.65	5100	7500	3083	4534	0.70	35.00	S # 1
6		2.33x0.71	1.65	5500	7600	3325	4594	0.75	37.50	
7	Steel Post	2.33x0.71	1.65	5200	7400	3143	4473	0.70	35.00	S # 2
8		2.33x0.71	1.65	5400	7400	3264	4473	0.80	40.00	
Only Eight Samples for Tensile Test										
Bend Test										

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UET Lahore, Pakistan.

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To,
M/S Siddiqsons Dyeing & Printing Industries (Pvt) Ltd
17-km Ferozpur Road, Lahore
(New Deing Hall Construction, 17 km Ferozpur Road, Lahore)

Reference # CED/TFL **34807** (Dr. Waseem Abbass)
Reference of the request letter # 001/SDPL/2020

Dated: 09-03-2020
Dated: 28-02-2020

Tension Test Report (Page -1/1)

Date of Test 10-03-2020
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 ²)		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	0.378	3/8	0.376	0.11	0.111	3600	5000	72200	71460	100200	99300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" 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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Department of Civil Engineering
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To,
 A.Senior Engineer
 Engineering Cell
 University of Education Lahore
 Strengthening of University of Education, Lahore (Main/Township Campus) – Construction of
 Bachelor Faculty Hostel
 Reference # CED/TFL **34810** (Dr. Waseem Abbass) Dated: 09-03-2020
 Reference of the request letter # UE/Engg/UE/20/153 Dated: 20-02-2020

Tension Test Report (Page -1/2)

Date of Test 10-03-2020
 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 ²)		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	0.372	3	0.373	0.11	0.109	3700	5100	74200	74620	102200	102900	1.10	13.8	AF Steel
2	0.367	3	0.371	0.11	0.108	3700	5000	74200	75640	100200	102300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 A.Senior Engineer
 Engineering Cell
 University of Education Lahore
 Strengthening of University of Education, Lahore (Main/Township Campus) – Construction of
 Central Library
 Reference # CED/TFL **34810** (Dr. Waseem Abbass) Dated: 09-03-2020
 Reference of the request letter # UE/Engg/UE/20/152 Dated: 20-02-2020

Tension Test Report (Page -2/2)

Date of Test 10-03-2020
 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 ²)		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	0.369	3	0.372	0.11	0.108	3600	5000	72200	73200	100200	101700	0.90	11.3	AF Steel
2	0.368	3	0.371	0.11	0.108	3700	5000	74200	75490	100200	102100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Senior Manager Project
Project Management Unit Chaman CT-1)
National Logistics Cell Care of Signal Centre Chaman (Balochistan)
Construction of Border Crossing Facility Chaman

Reference # CED/TFL **34811** (Dr. Waseem Abbass)
Reference of the request letter # 607/BCF Chaman/NLC

Dated: 09-02-2020

Dated: 02-03-2020

Tension Test Report (Page – 1/1)

Date of Test 10-03-2020
Gauge length -----
Description G.I Fence Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	4.00	840	8.24	
2	4.00	880	8.63	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Samples for Test				

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To,
 Manager Construction Projects
 Allied Bank
 Construction of ABL Building, 3-Babar Block, New Garden Town, Lahore

Reference # CED/TFL **34812** (Dr. Waseem Abbass) Dated: 09-03-2020
 Reference of the request letter # HOL/ENGG. C.P./SM/2020/14 Dated: 09-03-2020

Tension Test Report (Page -1/1)

Date of Test 10-03-2020
 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 ²)		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	0.415	3	0.394	0.11	0.122	4200	5200	84200	75880	104200	94000	1.00	12.5	
2	0.421	3	0.397	0.11	0.124	4100	5100	82200	73050	102200	90900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Batala Premium Steel
Lahore

Reference # CED/TFL **34817** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 10-03-2020
Dated: 10-03-2020

Tension Test Report (Page -1/1)

Date of Test 10-03-2020
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 ²)		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	0.375	3	0.375	0.11	0.110	2600	4000	52100	51960	80200	80000	1.80	22.5	
2	5.247	11	1.401	1.56	1.542	49600	67200	70100	70890	95000	96100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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