



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
 Techno Consult International
 CPEC Package-1, D.I. Khan

Reference # CED/TFL **32481** (Dr. Qasim Khan)
 Reference of the request letter # RE/CPEC/DIK/2019/448

Dated: 22-01-2019
 Dated: 21-01-2019

Tension Test Report (Page – 1/4)

Date of Test 25-01-2019
 Gauge length 2 inches
 Description Guard Rail & Vertical Steel Post Steel Strip Tensile and Bend Test as per
 ASSHTO M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Guard Rail	2.44x0.280	0.68	2700	3700	3951.99	5415.69	0.45	22.50	
2		2.44x0.280	0.68	2800	3700	4098.36	5415.69	0.50	25.00	
3	Vertical Steel Post	2.44x0.510	1.24	4900	6400	3937.64	5143.04	0.50	25.00	
4		2.44x0.510	1.24	5000	6500	4018.00	5223.40	0.55	27.50	
5	Vertical Steel Post	2.46x0.610	1.50	4800	6500	3198.72	4331.60	0.75	37.50	
6		2.44x0.610	1.49	4500	6400	3023.38	4299.92	0.75	37.50	
Only Six Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from Guard Rail Bend Test Through 180° is Satisfactory										
Strip Taken from Guard Rail Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Reference # CED/TFL **32481** (Dr. Qasim Khan)
Reference of the request letter # RE/CPEC/DIK/2019/448

Dated: 22-01-2019
Dated: 21-01-2019

Weight & Size Test Report (Page – 2/4)

Date of Test 25-01-2019
Gauge length -----
Description Vertical Steel Post Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth _d	Thickness	Remark
			(g)	(cm)	(kg/m)	(mm)	(mm)	
1	Vertical Steel Post	5	7105	60.8	11.69	151.00	5.10	
2		6	8238	60.7	13.57	155.00	6.20	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
-	-		-	-	-	-	-	
Only Two Samples for Test								

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To,
Resident Engineer
Techno Consult International
CPEC Package-1, D.I. Khan

Reference # CED/TFL **32481** (Dr. Usman Akmal)
Reference of the request letter # RE/CPEC/DIK/2019/449

Dated: 22-01-2019
Dated: 21-01-2019

Tension Test Report (Page – 3/4)

Date of Test 24-01-2019

Gauge length -----

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

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.15	340	3.34	
2	3.15	360	3.53	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Samples for Test				

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To,
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Reference # CED/TFL **32481** (Dr. Usman Akmal)
Reference of the request letter # RE/CPEC/DIK/2019/449

Dated: 22-01-2019
Dated: 21-01-2019

Size Test Report (Page – 4/4)
Date of Test 24-01-2019
Gauge length -----
Description Net Size Test

Sr. No.	Designation	Diameter of Wire	Grid	
			Length	Width
	----	(mm)	(mm)	(mm)
1	Net	3.15	56.60	56.00
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Only One Sample for Test				

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To,
Resident Engineer
RENARDET S.A ((M-4), Package-3A)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-III A
(Nizami)(CGGC)

Reference # CED/TFL **32492** (Dr. Qasim Khan)
Reference of the request letter # RE/M-4/3A/2019/281

Dated: 23-01-2019
Dated: 23-01-2019

Tension Test Report (Page – 1/1)

Date of Test 25-01-2019
Gauge length -----
Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	500	4.91	
2	3.15	500	4.91	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Samples for Test				

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 Acting Project Director
 Air University Multan Campus
 Construction of Academic Block-I

Reference # CED/TFL **32495** (Dr. Qasim Khan)
 Reference of the request letter # MUX/AUMC/AB1/2018/46

Dated: 24-01-2019
 Dated: 23-01-2019

Tension Test Report (Page -1/1)

Date of Test 25-01-2019
 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 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	0.358	3	0.366	0.11	0.105	2600	3850	52100	54480	77200	80700	1.50	18.8	
2	0.361	3	0.368	0.11	0.106	2600	3900	52100	53970	78200	81000	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														

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
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To,
M/S ASM Steel Buildings
Lahore Cantt

Reference # CED/TFL **32497** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 24-01-2019

Dated: 22-01-2019

Tension Test Report (Page – 1/1)

Date of Test 25-01-2019
Gauge length 2 inches
Description Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	GI Purlin	2	18.40x2.00	36.80	900	1250	239.92	333.22	0.70	35.00	
2		2	18.40x2.00	36.80	1000	1300	266.58	346.55	0.65	32.50	
3	GI Girt	1.5	18.40x1.50	27.60	1500	1700	533.15	604.24	0.30	15.00	
4		1.5	18.40x1.50	27.60	1400	1700	497.61	604.24	0.25	12.50	
5	MS Sheet	4	18.30x3.90	71.37	3100	3600	426.10	494.83	0.50	25.00	
6		4	18.30x3.80	69.54	3100	3600	437.32	507.85	0.50	25.00	
7	MS Sheet	6	18.40x5.80	106.72	4400	5800	404.46	533.15	0.55	27.50	
8		6	18.40x5.90	108.56	4400	5800	397.61	524.12	0.55	27.50	
9	MS Sheet	8	18.30x7.90	144.57	5900	7950	400.35	539.46	0.55	27.50	
10		8	18.20x7.95	144.69	6000	7900	406.80	535.62	0.50	25.00	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Construction Manager
 Depac
 Dr. Maqbool Ahmed Block K.E.M.U-Lahore

Reference # CED/TFL **32498** (Dr. Qasim Khan)
 Reference of the request letter # C-03/Civil/18

Dated: 24-01-2019
 Dated: 24-01-2019

Tension Test Report (Page -1/1)

Date of Test 25-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.390	3	0.382	0.11	0.115	4200	5100	84200	80760	102200	98100	1.00	12.5	
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Note: only one samples for tensile test														
Bend Test														

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To,
 Deputy Director
 PHATA Sub Region, Khushab
 (Construction of Over Head Reservoir 15,000- Gallons Capacity, Water Works in Area
 Development Scheme-III Quaidabad District Khushab)(M/s Saeed Akhtar & Co)

Reference # CED/TFL **32499** (Dr. Qasim Khan)
 Reference of the request letter # DD(PHATA)KHB/318

Dated: 24-01-2019
 Dated: 20-12-2018

Tension Test Report (Page -1/1)

Date of Test 25-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.373	3/8	0.373	0.11	0.110	3000	4400	60200	60380	88200	88600	1.30	16.3	
2	0.371	3/8	0.372	0.11	0.109	2800	4400	56200	56670	88200	89100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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To,
M/S MIB Industrial Co.
Lahore

Reference # CED/TFL **32500** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 24-01-2018
Dated: 24-01-2018

Tension Test Report (Page -1/1)

Date of Test 25-01-2018
Gauge length 2 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		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	7.942	36	35.89	-----	1011.7	50000	69000	485	669	0.6	30.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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To,
 Chief Engineer/Project Director
 Lahore College for Women University
 Construction of First Floor at Old Committee Room LCW University, Lahore

Reference # CED/TFL **32501** (Dr. Qasim Khan)
 Reference of the request letter # 939

Dated: 24-01-2019
 Dated: 23-01-2019

Tension Test Report (Page -1/1)

Date of Test 25-01-2019
 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 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	0.396	3	0.385	0.11	0.116	3600	5500	72200	68190	110200	104200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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