



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 Elco Enterprises
 New Garden Town, Lahore
 (Construction Project of ABL New Satellite Town Branch, Sargodha (0796))

Reference # CED/TFL **36239** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 18-03-2021
 Dated: 18-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.379	3	0.377	0.11	0.111	3400	5100	68200	67300	102200	101000	1.10	13.8	Ittefaq Steel
2	0.378	3	0.376	0.11	0.111	3400	5100	68200	67470	102200	101300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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



STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Nawab Ali
 Pakpattan

Reference # CED/TFL **36240** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 18-03-2021
 Dated: 18-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.366	3	0.370	0.11	0.108	3200	4600	64200	65580	92200	94300	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3600	4800	72200	72750	96200	97000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Project Manager
 Q-Links Property Construction Pvt Ltd
 Construction of Jasmine Grand Mall 2, Orchard Mall and Broadway Height-3 Bahria Orchard
 Lahore
 Reference # CED/TFL **36241** (Dr. M Rizwan Riaz) Dated: 18-03-2021
 Reference of the request letter # QLC-BO-BH2-2021-014 Dated: 18-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.366	3	0.370	0.11	0.107	3500	5300	70200	71770	106200	108700	1.20	15.0	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 XEN
 GE (army)-II Okara
 (Const of 1 X B Type Veh Shed at 78 Med Bn Oka Cantt (M/s CIVOOOL))

Reference # CED/TFL **36243** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6000/SM/3/E-6

Dated: 18-03-2021
 Dated: 15-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.397	3/8	0.385	0.11	0.117	4100	5100	82200	77500	102200	96400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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

To,
 XEN
 GE (army)-II Okara
 (Const of 1 X B Type Veh Shed at 17 Punjab Regt Oka Cantt, Const of 1 X B Type Veh Shed No. 01 at 59 S&T Bn Oka Cantt, Const of 1 X B Type Veh Shed No. 02 at 59 S&T Bn Oka Cantt)
 (M/s Riaz ud Din Engineering & Co)
 Reference # CED/TFL **36244** (Dr. M Rizwan Riaz) Dated: 18-03-2021
 Reference of the request letter # 6000/SM/3/E-6 Dated: 13-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.395	3/8	0.385	0.11	0.116	4100	5100	82200	77810	102200	96800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Techno Consultant International (Pvt) Ltd
CPEC Package-1

Reference # CED/TFL **36246** (Dr. M Rizwan Riaz)
Reference of the request letter # RE/CPEC/DIK/2021/758

Dated: 18-03-2021
Dated: 20-01-2021

Tension Test Report (Page – 1/3)

Date of Test 19-03-2021
Gauge length 2 inches
Description Metal Beam Guard Rail W-Beam Strip Tensile and Bend Test as per AASHTOO
M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Metal Beam Guard Rail (W-Beam)	2.53x0.30	0.76	2800	4000	3689	5270	0.40	20.00	
2		2.53x0.30	0.76	3000	4100	3953	5402	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from W-Beam Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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 Consultant International (Pvt) Ltd
 CPEC Package-1

Reference # CED/TFL **36246** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/CPEC/DIK/2021/758

Dated: 18-03-2021
 Dated: 20-01-2021

Tension Test Report (Page – 2/3)

Date of Test 19-03-2021
 Gauge length 2 inches
 Description Steel Post Strip Tensile Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Vertical Steel Post	20.50x6.00	123.00	3300	5100	263.20	406.76	0.70	35.00	
2		20.50x6.00	123.00	3500	5100	279.15	406.76	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Techno Consultant International (Pvt) Ltd
CPEC Package-1

Reference # CED/TFL **36246** (Dr. M Rizwan Riaz)
Reference of the request letter # RE/CPEC/DIK/2021/758

Dated: 18-03-2021
Dated: 20-01-2021

Size Test Report (Page – 3/3)

Date of Test

19-03-2021

Description

Metal Beam Guard Rail (W-Beam) & Vertical Steel Post thickness Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	Metal Beam Guard Rail (W-Beam)	3.00	
2	Vertical Steel Post	6.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Two Samples for Test			

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,
 Sub Divisional Officer
 Highway Sub Division
 Sialkot
 (Rehabilitation / Construction / Widening of Road from Sialkot Bhagowal Road (Chungi No. 8)
 to Eastern Bypass (BHU Village Jodaywal Kalan) via Village Johawal Khured i/c Link Road
 length = 6.40 km in District Sialkot)
 Reference # CED/TFL **36247** (Dr. M Rizwan Riaz) Dated: 19-03-2021
 Reference of the request letter # 636/S Dated: 18-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.399	3/8	0.387	0.11	0.117	2600	3600	52100	48820	72200	67600	2.10	26.3	
2	0.400	3/8	0.387	0.11	0.117	2500	3500	50100	46920	70200	65700	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

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

Reference # CED/TFL **36250** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20210319

Dated: 19-03-2021
 Dated: 19-03-2021

Tension Test Report (Page -1/1)

Date of Test 19-03-2021
 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	0.368	3	0.371	0.11	0.108	3100	4700	62200	63200	94200	95900	1.20	15.0	Batalka Premium
2	0.367	3	0.371	0.11	0.108	3200	4700	64200	65420	94200	96100	1.30	16.3	
3	0.365	3	0.370	0.11	0.107	3100	4600	62200	63650	92200	94500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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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