



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
 NESPAK
 M. Garh – D.G Khan Road

Reference # CED/TFL **33778** (Dr. Usman Akmal)
 Reference of the request letter # 3949/HA/01/298

Dated: 03-09-2019
 Dated: 28-08-2019

Tension Test Report (Page – 1/2)

Date of Test 12-09-2019
 Gauge length 2 inches
 Description W-Section & Vertical Post 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
1	W-Section	2.30x0.28	0.64	2600	3200	4037.27	4968.94	0.60	30.00	
2		2.30x0.28	0.64	2500	3200	3881.99	4968.94	0.60	30.00	
3	Vertical Post	2.49x0.70	1.74	6200	9400	3557.09	5393.00	0.60	30.00	
4		2.49x0.70	1.74	6400	9400	3671.83	5393.00	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Resident Engineer
NESPAK
M. Garh – D.G Khan Road

Reference # CED/TFL **33778** (Dr. Usman Akmal)
Reference of the request letter # 3949/HA/01/298

Dated: 03-09-2019
Dated: 28-08-2019

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

Date of Test 12-09-2019
Gauge length -----
Description Vertical Post Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth d	Thickness	Remark
1	Vertical Post	995	79.00	12.59	120.00	7.20	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
Resident Engineer
EGC (Pvt) Ltd
KQC Road Project N-25
Additional work under USAID for Kalat-Quette-Chaman N-25 Toll Plaza

Reference # CED/TFL **33796** (Dr. Ali Ahmed)
Reference of the request letter # RE/KQC-N-25/Add/331

Dated: 05-09-2019
Dated: 03-09-2019

Tension Test Report (Page – 1/1)

Date of Test 12-09-2019
Gauge length -----
Description Chain Link Fabric Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.00	3.50	
2	3.00	3.50	
3	3.00	3.50	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Three Samples for Test			

I/C Testing Laboratoires
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To,
 Resident Engineer
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(Jamal Pipe Industries)(FABCO)

Reference # CED/TFL **33802** (Dr. USman Akmal) Dated: 06-09-2019
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/1156 Dated: 05-09-2019

Tension Test Report (Page – 1/1)

Date of Test 12-09-2019
 Gauge length 2 inches
 Description W-Beam of Metal Guard Rail Strip Tensile and Bend Test as per AASHTOO A-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Beam	2.67x0.28	0.75	3800	5000	5082.93	6688.07	0.50	25.00	
2		2.67x0.28	0.75	4000	4900	5350.45	6554.31	0.50	25.00	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(Victory Pipe)(P&P)

Reference # CED/TFL **33803** (Dr. USman Akmal)

Dated: 06-09-2019

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/1157 Dated: 05-09-2019

Tension Test Report (Page – 1/2)

Date of Test 12-09-2019
 Gauge length 2 inches
 Description Sign Post Tubular Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Gantries	27.10x3.40	92.14	3600	4200	383.29	447.17	0.60	30.00	
2		27.10x3.40	92.14	3400	4200	361.99	447.17	0.60	30.00	
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.	.	-	-	-	-	-	-	-	-	
.	.	-	-	-	-	-	-	-	-	
.	.	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend 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,
 Resident Engineer
 NESPAK

China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(Victory Pipe)(P&P)

Reference # CED/TFL **33803** (Dr. USman Akmal)

Dated: 06-09-2019

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/1157 Dated: 05-09-2019

Tension Test Report (Page – 2/2)

Date of Test 12-09-2019
 Gauge length 2 inches
 Description Sign Board Panel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Sign Board	27.20x3.00	81.60	10.69	12.50	131.00	153.19	0.30	15.00	
2		27.20x3.00	81.60	11.00	12.50	134.80	153.19	0.30	15.00	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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o,
 DCRE
 Zeeruk International (Pvt) Ltd
 Lahore Sialkot Motorway Project

Reference # CED/TFL **33804** (Dr. Usman Akmal)
 Reference of the request letter # LSM/RE-II/St/19/484

Dated: 06-09-2019
 Dated: 05-09-2019

Tension Test Report (Page – 1/1)

Date of Test 12-09-2019
 Gauge length 2 inches
 Description Galvanized Steel Beam & Steel Post Steel 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 Beam	2.44x0.29	0.71	2500	4300	3533.07	6076.88	0.40	20.00	
2	Steel Beam	2.44x0.29	0.71	2700	4400	3815.72	6218.20	0.50	25.00	
3	Steel Post	2.49x0.70	1.74	6600	9300	3786.57	5335.63	0.70	35.00	
4	Steel Post	2.49x0.70	1.74	6500	9300	3729.20	5335.63	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

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,
 General Manager Operations
 Model Steel Enterprises (Pvt) Ltd
 Lahore

Reference # CED/TFL **33807** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 11-09-2019
 Dated: 11-09-2019

Tension Test Report (Page -1/1)

Date of Test 12-09-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.366	3/8	0.370	0.11	0.108	3000	4700	60200	61400	94200	96200	1.20	15.0	
2	0.370	3/8	0.372	0.11	0.109	3100	4600	62200	62840	92200	93300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,
 Executive Engineer
 Highway Division Muzaffargarh
 Rural Accessibility Programme for 2018-19 – Package-02 District Muzaffargarh

Reference # CED/TFL **33808** (Dr. Usman Akmal)
 Reference of the request letter # 15

Dated: 11-09-2019
 Dated: 10-08-2019

Tension Test Report (Page -1/1)

Date of Test 12-09-2019
 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	0.386	3	0.380	0.11	0.114	2700	3600	54100	52410	72200	69900	1.50	18.8	
2	0.394	3	0.384	0.11	0.116	2500	3700	50100	47540	74200	70400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Albakio International
Lahore

Reference # CED/TFL **33809** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 11-09-2019
Dated: 05-09-2019

Tension Test Report (Page -1/1)

Date of Test 12-09-2019
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 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	0.390	10	9.70	0.12	0.115	4600	5800	84510	88520	106556	111700	0.80	10.0	
2	0.382	10	9.60	0.12	0.112	4500	5700	82673	88370	104719	112000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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,
 Assistant Engineer
 B & W Department, U.E.T, Lahore
 Construction Sites in UET Lahore

Reference # CED/TFL **33810** (Dr. Usman Akmal)
 Reference of the request letter # B&W/AEN/1109

Dated: 11-09-2019
 Dated: 11-09-2019

Tension Test Report (Page -1/1)

Date of Test 12-09-2019
 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	0.369	3	0.372	0.11	0.108	3500	5000	70200	71160	100200	101700	1.10	13.8	
2	0.362	3	0.368	0.11	0.106	3400	4800	68200	70490	96200	99600	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Assistant Resident Engineer
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Nomee Steel)
 Reference # CED/TFL **33811** (Dr. Waseem Abbas) Dated: 12-09-2019
 Reference of the request letter # KK-DIK—BR-PJ/2019/052 Dated: 11-09-2019

Tension Test Report (Page -1/1)

Date of Test 12-09-2019
 Gauge length 8 inches

Deformed Steel Bar Tensile Test as per	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.228	32	31.95	1.25	1.243	40600	54200	71605	72010	95591	96200	1.30	16.3	
2	4.249	32	32.03	1.25	1.249	41400	54800	73016	73070	96650	96800	1.50	18.8	
3	4.250	32	32.03	1.25	1.249	40600	54000	71605	71630	95239	95300	1.50	18.8	
4	4.226	32	31.94	1.25	1.242	40400	53600	71253	71690	94533	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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