



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

To,  
 RE, VO-2 (M2)  
 ACC-Prime Jv  
 Construction of Additional Lanes on Motorway (M-2 Between Ravi Toll Plaza and Faizpur Interchange)

Reference # CED/TFL **34461** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 10-01-2020  
 Dated: 09-01-2020

**Tension Test Report** (Page – 1/2)

Date of Test 20-01-2020  
 Gauge length 2 inches  
 Description Guard Rail 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	Guard Rail Post	2.66x0.71	1.89	6400	9500	3389	5030	0.70	35.00	
2		2.66x0.71	1.89	6400	9600	3389	5083	0.80	40.00	
.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
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To,  
RE, VO-2 (M2)  
ACC-Prime Jv  
Construction of Additional Lanes on Motorway (M-2 Between Ravi Toll Plaza and Faizpur Interchange)

Reference # CED/TFL **34461** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 10-01-2020  
Dated: 09-01-2020

**Size Test Report** (Page – 2/2)

Date of Test 20-01-2020

Gauge length -----

Description Guard Rail Post Size Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	Guard Rail Post	7.10	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only One Sample for Test</b>			

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 RENARDET S.A ((M-4), Package-IIIB)  
 Construction of Faisalabad - Khanewal Motorway Project, Package-III, Dinpur - Khanewal,  
 Section 3B (150+200-184+487)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)  
 Reference # CED/TFL **34474** (Dr. M Rizwan Riaz) Dated: 14-01-2020  
 Reference of the request letter # RE/M-4/3B/2020/524 Dated: 07-01-2020

**Tension Test Report** (Page – 1/4)

Date of Test 20-01-2020

Gauge length 2 inches

Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	Plate	25	24.10x25.00	602.50	15800	26600	257.26	433.11	0.80	40.00	
-	Plate	20	24.10x20.10	484.41	12600	23400	255.17	473.88	0.80	40.00	
-	Plate	10	22.70x10.20	231.54	6000	11200	254.21	474.53	0.90	45.00	
-	Plate	5	47.10x5.00	235.50	7300	11400	304.09	474.88	0.80	40.00	
-	Angle	-----	19.70x4.50	88.65	2600	4300	287.72	475.84	0.50	25.00	
-	Channel	-----	26.40x6.00	158.40	4800	8800	297.27	545.00	0.60	30.00	

**Only Six Sample for Tensile and Six Sample for Bend Test**

Bend Test											
Strip Taken from Steel Plate 25mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Plate 20mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Plate 10mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Plate 5mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Angle Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Channel Bend Test Through 180° is Satisfactory											

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
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**University of Engineering and Technology Lahore, 54890**  
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To,  
Resident Engineer  
RENARDET S.A ((M-4), Package-IIIB)  
Construction of Faisalabad - Khanewal Motorway Project, Package-III, Dinpur - Khanewal,  
Section 3B (150+200-184+487)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **34474** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE/M-4/3B/2020/524

Dated: 14-01-2020  
Dated: 07-01-2020

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

Date of Test 20-01-2020  
Gauge length -----  
Description Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(cm)	(kg/m <sup>2</sup> )	(mm)	
1	25	9677	49.50	9.80	199.48	25.00	
2	20	7789	49.40	9.70	162.55	20.10	
3	10	3988	49.70	9.90	81.05	10.20	
4	5	989	49.80	4.80	41.37	5.10	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only Four Samples for Test</b>							

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
Resident Engineer  
RENARDET S.A ((M-4), Package-IIIB)  
Construction of Faisalabad - Khanewal Motorway Project, Package-III, Dinpur - Khanewal,  
Section 3B (150+200-184+487)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **34474** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE/M-4/3B/2020/524

Dated: 14-01-2020  
Dated: 07-01-2020

**Weight & Size Test Report** (Page – 3/4)

Date of Test                   20-01-2020  
Gauge length                 -----  
Description                    Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	-----	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	Angle	1179	49.40	2.39	36.10	37.20	4.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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To,  
Resident Engineer  
RENARDET S.A ((M-4), Package-IIIB)  
Construction of Faisalabad - Khanewal Motorway Project, Package-III, Dinpur - Khanewal,  
Section 3B (150+200-184+487)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **34474** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE/M-4/3B/2020/524

Dated: 14-01-2020  
Dated: 07-01-2020

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

Date of Test 20-01-2020  
Gauge length -----  
Description Channel Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (bf)	Flange Thickness (tf)	Web Thickness (tw)	Remark
1	Channel	7298	49.8	14.65	150.00	74.20	7.30	6.00	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>									

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**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,  
 Sub Divisional Officer  
 Public Health Engg: Sub Division  
 Chishtian  
 (Sewerage Scheme Chishtian (City Uplift Package) Zone-A & B)

Reference # CED/TFL **34495** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 15

Dated: 17-01-2020  
 Dated: 15-01-2020

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

Date of Test 20-01-2020  
 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 <sup>2</sup> )		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	0.108	3/16	0.201	-----	0.032	840	1120	-----	58300	-----	77800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/16" Dia 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,  
 Assistant Director, (North)  
 Sub Div: Suraj Miani  
 WASA (MDA) Multan  
 (Laying of Sewer Line at Kutchery District Courts Multan)

Reference # CED/TFL **34496** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 43/AD (N)/WASA

Dated: 17-01-2020  
 Dated: 26-12-2019

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

Date of Test 20-01-2020  
 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 <sup>2</sup> )		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	0.108	3/16	0.201	-----	0.032	900	1150	-----	62470	-----	79900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/16" Dia 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,  
 Assistant Civil Engineer  
 Punjab Small Industries Corporation  
 Lahore  
 (The Construction of Regional Office & Display Hall at SIE-Sahiwal)

Reference # CED/TFL **34497** (Dr. M Rizwan Riaz)  
 Reference of the request letter # PSIC/W&D/316

Dated: 17-01-2020  
 Dated: 15-01-2020

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

Date of Test 20-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.365	3/8	0.370	0.11	0.107	3200	4700	64200	65670	94200	96500	0.90	11.3	
2	0.368	3/8	0.371	0.11	0.108	3400	4800	68200	69300	96200	97900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
 Manager  
 QA/QC Department  
 Bahria Town Private Limited, Lahore  
 Masjid at Bahria Orch 4.

Reference # CED/TFL **34498** (Dr. M Rizwan Riaz)  
 Reference of the request letter # QA/QC-Steel-1810

Dated: 17-01-2020  
 Dated: 16-01-2020

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

Date of Test 20-01-2020  
 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 <sup>2</sup> )		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	0.363	3	0.369	0.11	0.107	3000	4400	60200	61980	88200	90900	1.20	15.0	Model Steel
2	0.360	3	0.367	0.11	0.106	3000	4500	60200	62510	90200	93800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Madina Steel Industry  
Kasur  
(Saeed Kasur Steel (G-40))

Reference # CED/TFL **34501** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 17-01-2020  
Dated: 17-01-2020

**Tension Test Report** (Page -1/2)

Date of Test 20-01-2020  
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 <sup>2</sup> )		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	0.388	3/8	0.381	0.11	0.114	2700	4200	54100	52190	84200	81200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Madina Steel Industry  
Kasur  
(Saeed Kasur Steel (G-60))

Reference # CED/TFL **34501** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 17-01-2020  
Dated: 17-01-2020

**Tension Test Report** (Page -2/2)

Date of Test 20-01-2020  
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 <sup>2</sup> )		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	0.384	3/8	0.379	0.11	0.113	3400	5400	68200	66320	108200	105400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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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  
 RENARDET S.A ((M-4), Package-II & III)  
 Construction of Faisalabad - Khanewal Motorway Project, Package-III, Dinpur - Khanewal,  
 Section 3B (150+200-184+487)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)(D & L International)

Reference # CED/TFL **34503** (Dr. M Rizwan Riaz)  
 Reference of the request letter # RE/M-4/3B/2020/520

Dated: 17-01-2020  
 Dated: 01-01-2020

**Tension Test Report** (Page – 1/3)

Date of Test 20-01-2020  
 Gauge length 2 inches  
 Description W-Section 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	2.40x0.29	0.70	2700	3600	3879	5172	0.50	25.00	
2		2.40x0.29	0.70	2700	3600	3879	5172	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and Two Samples for Bend Test</b>										
<b>Bend Test</b>										
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.**

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Reference # CED/TFL **34503** (Dr. M Rizwan Riaz)  
 Reference of the request letter # RE/M-4/3B/2020/519

Dated: 17-01-2020  
 Dated: 01-01-2020

**Tension Test Report** (Page – 2/3)

Date of Test 20-01-2020  
 Gauge length 2 inches  
 Description Vertical 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	Vertical Post	2.20x0.61	1.34	4900	7200	3651	5365	0.80	40.00	
2		2.20x0.61	1.34	4800	7200	3577	5365	0.70	35.00	
.	.	.	.	.	.	.	.	.	.	
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.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Reference # CED/TFL **34503** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE/M-4/3B/2020/519

Dated: 17-01-2020  
Dated: 01-01-2020

**Weight & Size Test Report** (Page – 3/3)

Date of Test 20-01-2020  
Gauge length -----  
Description Vertical Post Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Web Thickness (t <sub>w</sub> )	Remark
		(g)	(mm)	(kg/m)	(mm)	
1	Vertical Post	1367	102.0	13.40	6.10	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
<b>Only One Sample for Test</b>						

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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