



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

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

Reference # CED/TFL **33136** (Dr. M Rizwan Riaz)

Dated: 24-04-2019

Reference of the request letter # PE-BA-JV/KK-DIK/2019/018

Dated: 23-04-2019

Tension Test Report (Page – 1/2)

Date of Test 29-04-2019

Gauge length 2 inches

Description Mild Steel Plate Steel Strip Tensile and Bend 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
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(Mpa)	(in)		
1	10	24.70x10.00	247.00	7000	10900	278.02	432.91	0.80	40.00	
2	10	24.65x10.00	246.50	6600	10900	262.66	433.79	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Mild Steel Plate (10mm) Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

Reference # CED/TFL **33136** (Dr. M Rizwan Riaz)

Dated: 24-04-2019

Reference of the request letter # PE-BA-JV/KK-DIK/2019/018

Dated: 23-04-2019

Thickness Test Report (Page – 2/2)

Date of Test 29-04-2019

Gauge length -----

Description Mild Steel Plate Thickness Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	Mild Steel Plate	10.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample 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,
Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Sec-III (CSCEC)(High Pole Lamp Foundation)

Reference # CED/TFL **33142** (Dr. Qasim Khan)
Reference of the request letter # CRE/EA/M.P-III/397-2019

Dated: 24-04-2019
Dated: 24-04-2019

Tension Test Report (Page – 1/3)

Date of Test 29-04-2019
Gauge length 2 inches
Description Flange Plate 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)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(Mpa)	(in)		
1	25	25.10x25.10	630.01	28500	33400	443.78	520.08	0.90	45.00	
2	25	24.70x25.00	617.50	26500	33000	421.00	524.26	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
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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
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Sec-III (CSCEC)(Used in Connections of Fence with Higher Place of Structure Wing Wall)

Reference # CED/TFL **33142** (Dr. Qasim Khan)
Reference of the request letter # CRE/EA/M.P-III/383-2019

Dated: 24-04-2019
Dated: 24-04-2019

Tension Test Report (Page – 2/3)

Date of Test 29-04-2019
Gauge length 2 inches
Description Steel Plate 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)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(Mpa)	(in)		
1	5	24.70x5.00	123.50	4600	5900	365.39	468.66	0.65	32.50	
2	5	24.60x5.00	123.00	4500	6100	358.90	486.51	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Sec-III (CSCEC)(Country Lamp Foundation)

Reference # CED/TFL **33142** (Dr. Qasim Khan)
Reference of the request letter # CRE/EA/M.P-III/398-2019

Dated: 24-04-2019
Dated: 24-04-2019

Tension Test Report (Page – 3/3)

Date of Test 29-04-2019
Gauge length 2 inches
Description Flange Plate 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)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(Mpa)	(in)		
1	8	24.50x7.90	193.55	6800	10300	344.66	522.05	0.60	30.00	
2	8	24.40x7.90	192.76	7600	10300	386.78	524.19	0.65	32.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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

To,
 Resident Engineer
 NESPAK, Lahore
 Construction of Parking and Bridge over Cantt Drain at The Rear Side of Services Hospital/PIC,
 Lahore
 Reference # CED/TFL **33151** (Dr. M Rizwan Riaz) Dated: 25-04-2019
 Reference of the request letter # 3772/103/MSW/019/004 Dated: 16-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
 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	4.154	10	1.247	1.27	1.221	34600	56000	60100	62460	97200	101100	1.20	15.0	
2	4.187	10	1.252	1.27	1.231	35000	56600	60800	62680	98300	101400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Usman (Engineer NESPAK)

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,
 Amna/Noor
 32-C/1
 Gulberg III Lahore

Reference # CED/TFL **33152** (Dr. M Rizwan Riaz)
 Reference of the request letter # ST/TF/02/19

Dated: 26-04-2019
 Dated: 26-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
 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	0.381	3	0.378	0.11	0.112	3800	4900	76200	74740	98200	96400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 NESPAK
 Construction of Under Passes at Kashmir Bridge along Canal Faisalabad
 (Kisan Steel)

Reference # CED/TFL **33153** (Dr. M Rizwan Riaz)
 Reference of the request letter # 3994/103/AS/01/95

Dated: 26-04-2019
 Dated: 25-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
 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	5.361	11	1.417	1.56	1.576	46400	64600	65600	64900	91300	90400	1.70	21.3	
2	5.291	11	1.407	1.56	1.555	46400	64400	65600	65750	91000	91300	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 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
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works IVY Green Sector-Z DHA Ph-VIII)(M/s MCC Ruba)

Reference # CED/TFL **33156** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/522/2094

Dated: 26-04-2019
Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
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	0.363	3	0.369	0.11	0.107	2900	4500	58200	59830	90200	92900	1.00	12.5	City Steel
2	0.364	3	0.369	0.11	0.107	3000	4800	60200	61790	96200	98900	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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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
 Orbit Housing
 Spring Apartment, Canal Road, Lahore

Reference # CED/TFL **33158** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 29-04-2019
 Dated: 29-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
 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	0.371	0.11	0.108	4200	5100	84200	85450	102200	103800	0.80	10.0	
2	0.362	3	0.368	0.11	0.106	4100	5200	82200	84900	104200	107700	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
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 Manager Civil
 US Denim Mills (Pvt) Ltd
 Lahore
 (Kanran Steel)

Reference # CED/TFL **33159** (Dr. M Rizwan Riaz)
 Reference of the request letter # US Real/CIV/Izmir/02

Dated: 29-04-2019
 Dated: 27-04-2019

Tension Test Report (Page -1/1)

Date of Test 29-04-2019
 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	0.368	3	0.371	0.11	0.108	3000	5000	60200	61060	100200	101800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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