



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

To,

MMC
Shajar Roads Limited
Dualization of Sheikhpura - Gujranwala Road, Toll Plaza Canopy Steel Structure.

Reference # CED/TFL **3494** (Dr. M Rizwan Riaz)
Reference of the request letter # MMC/SRLSGRP/232

Dated: 19-06-2023
Dated: 10-06-2023

Tension Test Report (Page – 1/1)

Date of Test 27-06-2023
Gauge length 2 inches
Description Steel Structure Steel 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
	(mm)										
1	SB IV	50.8x101x3.54	25.50x3.30	84.15	-----	5700	-----	664	0.20	10.00	
2	SB III	76.2x101.6x4	25.30x4.90	123.97	4700	6000	372	475	0.50	25.00	
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-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

Resident Engineer
ESS-I-AAR Consultant
Construction of Bridge over Bahawal Canal at RD 142+900 Near Tehsil Head Quarter
Hospital Khairpur Tamewali.

Reference # CED/TFL **3539** (Dr. M Rizwan Riaz)
Reference of the request letter # RE/ADP/BWP/1705A

Dated: 26-06-2023
Dated: 24-06-2023

Tension Test Report (Page # 1/1)

Date of Test 27-06-2023
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	0.376	3	0.375	0.11	0.110	3500	5000	70200	69820	100200	99800	1.30	16.3	FF Steel
2	0.379	3	0.377	0.11	0.111	3500	5000	70200	69260	100200	99000	1.20	15.0	
3	4.268	10	1.264	1.27	1.255	39000	53600	67700	68520	93100	94200	1.60	20.0	
4	4.238	10	1.259	1.27	1.246	38400	53000	66700	67940	92000	93800	1.60	20.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3543** (Dr. M Rizwan Riaz)
 Reference of the request letter # 4537/02/MH/Lab/01

Dated: 26-06-2023
 Dated: 16-06-2023

Tension Test Report (Page # 1/2)

Date of Test 27-06-2023
 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	0.368	3	0.371	0.11	0.108	3800	4700	76200	77410	94200	95800	1.10	13.8	Mughal Steel
2	0.367	3	0.371	0.11	0.108	3600	4500	72200	73550	90200	92000	1.00	12.5	
3	4.252	10	1.261	1.27	1.250	43600	56000	75700	76890	97200	98800	1.40	17.5	
4	4.269	10	1.264	1.27	1.255	44600	56800	77500	78350	98600	99800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
 NESPAK

Construction of 8-Lane Overhead Bridge at Imamia Colony Railway Crossing, Shahdara.

Reference # CED/TFL **3543** (Dr. M Rizwan Riaz)

Dated: 26-06-2023

Reference of the request letter # 4537/02/MH/Lab/01

Dated: 16-06-2023

Tension Test Report (Page # 2/2)

Date of Test 27-06-2023

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	4.346	10	1.275	1.27	1.278	42600	59200	74000	73490	102800	102200	1.50	18.8	Kamran Steel
2	4.263	10	1.263	1.27	1.253	44600	57200	77500	78440	99300	100600	1.40	17.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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