



**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

Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwar via Hafizabad km 6.20 to km 80.35 Length 74.15 km in District Gujranwala & Hafizabad (Section km 06.20 – 23.20, L= 17.00km)

Reference # CED/TFL **2121** (Dr. Safer Abbass)

Dated: 13-10-2022

Reference of the request letter # 4376F/103/GH/ML/Lab/48

Dated: 13-10-2022

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

Date of Test 28-10-2022

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	0.389	3	0.382	0.11	0.114	2700	3800	54100	52000	76200	73200	1.60	20.0	
2	0.372	3	0.373	0.11	0.109	3100	4800	62200	62540	96200	96900	0.90	11.3	
3	4.306	10	1.269	1.27	1.266	25800	39000	44800	44930	67700	68000	1.90	23.8	
4	4.306	10	1.269	1.27	1.266	24800	37600	43100	43190	65300	65500	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
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.**

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.
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To,  
 Team Leader – JIPIC  
 Project Implementation Consultants (PICs)  
 Jalalpur Irrigation Project  
 Construction of Jalalpur Irrigation Canal and its System

Reference # CED/TFL **2188** (Dr. Safer Abbass)  
 Reference of the request letter # JIPIC/2.18/4238

Dated: 26-10-2022  
 Dated: 25-10-2022

**Tension Test Report** (Page – 1/1)

Date of Test 28-10-2022  
 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)									
1	A-01	10	39.70x9.80	389.06	9500	13500	240	340	0.90	45.00	
2	A-02	10	39.80x9.80	390.04	9900	14300	249	360	0.90	45.00	
3	A-03	12	41.00x11.80	483.80	17300	21500	351	436	0.70	35.00	
4	A-04	16	39.00x15.90	620.10	31500	36900	498	584	0.90	45.00	
5	A-05	20	38.10x20.00	762.00	29200	41700	376	537	0.90	45.00	
6	A-06	20	37.80x20.00	756.00	29500	40700	383	528	0.90	45.00	
7	A-07	25	39.40x24.70	973.18	36200	44600	365	450	0.90	45.00	
8	A-08	25	40.30x24.70	995.41	37200	45800	367	451	0.90	45.00	
<b>Only Eight Samples for Tensile Test</b>											
<b>Bend Test</b>											

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To,  
 Naveed Ahmed  
 Lahore

Reference # CED/TFL **2195** (Dr. Safer Abbass)  
 Reference of the request letter # Nil

Dated: 27-10-2022

Dated: 26-10-2022

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

Date of Test 28-10-2022  
 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	0.367	3	0.370	0.11	0.108	3700	5300	74200	75680	106200	108400	1.00	12.5	
2	0.363	3	0.369	0.11	0.107	3800	5100	76200	78500	102200	105400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**UET Lahore, Pakistan.**

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To,  
M/S Ideal Construction Service  
Lahore  
(FMH Tower Lahore)

Reference # CED/TFL **2199** (Dr. Safer Abbass)  
Reference of the request letter # ICS/786/454

Dated: 27-10-2022  
Dated: 27-10-2022

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

Date of Test 28-10-2022  
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	0.381	3	0.378	0.11	0.112	3900	5300	78200	76750	106200	104300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Asst Dir Lab  
 Defence Housing Authority  
 Bahawalpur Cantonment  
 Sec-B, Residential Unit (Myco Engineers Construction)

Reference # CED/TFL **2200** (Dr. Safer Abbass)  
 Reference of the request letter # 530/QC/MTL

Dated: 27-10-2022  
 Dated: 24-10-2022

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

Date of Test 28-10-2022  
 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	0.375	3	0.375	0.11	0.110	3900	5300	78200	78000	106200	106000	1.00	12.5	Union Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Project Director  
 Overseas Construction Co. (Pvt) Ltd  
 Gulberg City Centre, Lahore

Reference # CED/TFL **2203** (Dr. M Rizwan Riaz)  
 Reference of the request letter # OCC/Steel/08

Dated: 28-10-2022  
 Dated: 28-10-2022

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

Date of Test 28-10-2022  
 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	4.313	10	1.271	1.27	1.268	41000	58800	71200	71280	102100	102300	1.30	16.3	Afco Steel
2	4.279	10	1.265	1.27	1.258	36800	56800	63900	64500	98600	99600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and two samples for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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