



**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 – Zeeruk (Jv)  
China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan  
Motorway - Rehmani Khel to Kot Balian - Package-2A

Reference # CED/TFL **35555** (Dr. Waseem Abbass)

Dated: 26-10-2020

Reference of the request letter # RE/NESPAK/P-2/CPEC-WR/1396

Dated: 19-10-2020

**Tension Test Report** (Page – 1/1)

Date of Test 03-11-2020

Gauge length -----

Description Fence Wire Tensile Test

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	640	6.28	
2	3.20	640	6.28	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Only Two Samples for Test</b>				

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

**Note:**

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To,  
 Resident Engineer  
 Al Imam Enterprises Pvt Ltd  
 Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **35561** (Dr.Waseem Abbass) Dated: 27-10-2020  
 Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1171 Dated: 26-10-2020

**Tension Test Report** (Page – 1/1)

Date of Test 03-11-2020  
 Gauge length 2 inches  
 Description Angle Iron 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 <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle Iron	19.20x4.80	92.16	3200	4500	340.63	479.00	0.55	27.50	
2		19.20x4.80	92.16	3000	4400	319.34	468.36	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

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To,  
Chief Resident Engineer  
NESPAK

Installation of Directional / Informational Signage for Station of Lahore Orange Train Project  
Package-1 (Aldo International Pvt. Ltd)

Reference # CED/TFL **35583** (Dr. Waseem Abbass)

Dated: 02-11-2020

Reference of the request letter # 4042/13/FAM/SS-Pipe-178

Dated: 22-10-2020

**Tension Test Report** (Page – 1/1)

Date of Test 03-11-2020

Gauge length 2 inches

Description Steel Section 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 <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Stainless Steel Pipe 50mm	19.95x1.50	29.93	1280	2100	419.61	688.42	0.80	40.00	
2	Stainless Steel Pipe 75mm	19.95x1.50	29.93	1280	2080	419.61	681.86	0.80	40.00	
3	Strip	19.95x1.50	29.93	1320	2240	432.72	734.32	0.80	40.00	
4	Rectangular Pipe	19.95x1.50	29.93	1320	2280	432.72	747.43	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile Test</b>										
<b>Bend Test</b>										

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To,  
 Resident Engineer (AZEA)  
 Sargodha Mianwali Road Mianwali  
 Widening / Improvement of Road from Art-2 Paf Road Via Degree College, University Campus  
 Mianwali, Length 6.55 km in District Mianwali

Reference # CED/TFL **35584** (Dr. Waseem Abbass)  
 Reference of the request letter # RE/MWI-95

Dated: 02-11-2020  
 Dated: 26-10-2020

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

Date of Test 03-11-2020  
 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	0.369	3/8	0.372	0.11	0.108	3800	5100	76200	77240	102200	103700	1.00	12.5	Mughal Supreme
2	0.363	3/8	0.369	0.11	0.107	3500	4700	70200	72260	94200	97100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
 Chief Resident Engineer  
 NESPAK

Installation of Directional / Informational Signage for Station of Lahore Orange Train Project  
 Package-1 (Aldo International Pvt. Ltd)

Reference # CED/TFL **35585** (Dr. Waseem Abbass)

Dated: 02-11-2020

Reference of the request letter # 4042/13/FAM/SS-Pipe-179

Dated: 22-10-2020

**Tension Test Report** (Page – 1/1)

Date of Test 03-11-2020

Gauge length 2 inches

Description Square Pipe 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 <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Square Pipe	17.00x2.00	34.00	1240	1800	357.78	519.35	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>										
<b>Bend Test</b>										

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