



**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 & Improvement of Old Bannu Road / Domail – Khurram Road Project (P-01)

Reference # CED/TFL **37060** (Dr. Ali Ahmed) Dated: 17-09-2021  
 Reference of the request letter # 3968/OBR/P-01/RE/GRD/1014 Dated: 09-08-2021

**Tension Test Report** (Page – 1/5)

Date of Test 22-09-2021  
 Gauge length 2 inches  
 Description Steel Sheet 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)										
1	Steel Sheet	12	27.90x7.80	217.62	7900	10600	356	478	0.70	35.00	
2			27.90x7.80	217.62	8000	10700	361	482	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from Steel Sheet 12mm Bend Test Through 180° is Satisfactory											

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

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Reference of the request letter # 3968/OBR/P-01/RE/GRD/1014

Dated: 17-09-2021  
Dated: 09-08-2021

**Weight & Size Test Report** (Page – 2/5)

Date of Test 22-09-2021  
Description Steel Sheet Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(mm)	(kg/m <sup>2</sup> )	(mm)	
1	12	8320	61.0	216.5	63.00	7.90	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>							

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

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 Reference of the request letter # 3968/OBR/P-01/RE/GRD/1013 Dated: 09-08-2021

**Tension Test Report** (Page – 3/5)  
 Date of Test 22-09-2021  
 Gauge length 8 inches  
 Description Wire Mesh Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.099	-----	4.01	-----	12.6	-----	880	-----	683	0.30	3.8	
2	0.099	-----	4.01	-----	12.6	-----	820	-----	637	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>												
Bend Test												

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Dated: 17-09-2021  
Dated: 09-08-2021

**Weld Test Report** (Page – 4/5)

Date of Test 22-09-2021  
Description Wire Mesh Weld Load Test

Sr. No	Wire Size (inch)	Breaking Load (kg)	Remarks
1	4x4	200	Weld Failure
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Note: only one sample for test</b>			

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Dualization & Improvement of Old Bannu Road / Domail – Khurram Road Project (P-01)

Reference # CED/TFL **37060** (Dr. Ali Ahmed)  
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Dated: 17-09-2021  
Dated: 09-08-2021

**Size Test Report** (Page – 5/5)  
Date of Test 22-09-2021  
Description Wire Mesh Size Test

Sr. No.	Designation	Grid Size		Measured Diameter of Wire	Remark
		Length	Width		
	(inch)	(mm)	(mm)	(mm)	
1	4x4	100.10	100.20	4.10	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
<b>Only One Sample for Test</b>					

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To,  
M/S S.A Sheikh & Co  
Daroghawala Bundh Road, Lahore

Reference # CED/TFL **37063** (Dr. Ali Ahmed)  
Reference of the request letter # SASheikh/SCATECSS/INSP1

Dated: 17-09-2021

Dated: 17-09-2021

**Tension Test Report** (Page – 1/1)

Date of Test 22-09-2021  
Gauge length 2 inches  
Description Angle Iron Steel 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
	(inch)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	2 <sup>1</sup> / <sub>2</sub> x3/16 (T-122)	27.70x5.20	144.04	5300	8200	361	558	0.55	27.50	
2	2 <sup>1</sup> / <sub>2</sub> x3/16 (T-128)	27.70x5.10	141.27	5600	8400	389	583	0.65	32.50	
3	5x3/8	27.70x9.80	271.46	10100	16600	365	600	0.66	33.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Three Samples for Tensile and Three Samples for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Angle Iron (2 <sup>1</sup> / <sub>2</sub> "x3/16" (T-122)) Bend Test Through 180° is Satisfactory										
Strip Taken from Angle Iron (2 <sup>1</sup> / <sub>2</sub> "x3/16" (T-128)) Bend Test Through 180° is Satisfactory										
Strip Taken from Angle Iron (5"x3/8") Bend Test Through 180° is Satisfactory										

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To,  
M/S M. Yousaf & Company  
Lahore  
(TCF School, Rajay Wala Kamoke)

Reference # CED/TFL **37077** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 21-09-2021  
Dated: 21-09-2021

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

Date of Test 22-09-2021  
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	0.393	3/8	0.383	0.11	0.115	3700	4800	74200	70640	96200	91700	1.10	13.8	
2	0.364	3/8	0.369	0.11	0.107	3400	4700	68200	70050	94200	96900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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To,  
 Resident Engineer  
 NESPAK Jv TurkPak  
 Resident Construction Supervision for Establishment of Dera Ghazi Khan Institute of  
 Cardiology

Reference # CED/TFL **37081** (Dr. Ali Ahmed)

Dated: 22-09-2021

Reference of the request letter # 4161/RE/SFMKB/DGK/488

Dated: 07-09-2021

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

Date of Test 22-09-2021

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	0.368	3	0.371	0.11	0.108	3300	5000	66200	67210	100200	101900	1.10	13.8	Ittehad Steel
2	0.368	3	0.371	0.11	0.108	3200	5000	64200	65260	100200	102000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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