



**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  
PICIIP Sahiwal  
Punjab Intermediate Cities Improvement Investment Program (PICIIP),  
Consultancy Services for Engineering, Procurement and Construction Management  
Rehabilitation / Improvement of Water Supply System Sahiwal - Lot 1  
Reference # CED/TFL **36704** (Dr. Safer Abbass)  
Reference of the request letter # 3976/11/MT/01/Lot-1/117

Dated: 07-07-2021

Dated: 06-07-2021

**Tension Test Report** (Page – 1/3)

Date of Test 16-07-2021  
Gauge length 2 inches  
Description MS Pipe 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	MS Pipe	16	26.10x5.90	153.99	5200	7300	331.27	465.05	0.60	30.00	
2			25.90x5.90	152.81	5700	7500	365.93	481.48	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from MS Pipe (16") Bend Test Through 180° is Satisfactory											

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

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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To,  
Resident Engineer  
NESPAK  
PICIIP Sahiwal  
Punjab Intermediate Cities Improvement Investment Program (PICIIP),  
Consultancy Services for Engineering, Procurement and Construction Management  
Rehabilitation / Improvement of Water Supply System Sahiwal - Lot 1

Reference # CED/TFL **36704** (Dr. Safer Abbass)  
Reference of the request letter # 3976/11/MT/01/Lot-1/117

Dated: 07-07-2021  
Dated: 06-07-2021

**Seamless/Flattening Test Report** (Page – 2/3)

Date of Test 16-07-2021  
Description MS Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 16"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Only One Sample for Test</b>			

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

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To,  
Resident Engineer  
NESPAK  
PICIIP Sahiwal  
Punjab Intermediate Cities Improvement Investment Program (PICIIP),  
Consultancy Services for Engineering, Procurement and Construction Management  
Rehabilitation / Improvement of Water Supply System Sahiwal - Lot 1

Reference # CED/TFL **36704** (Dr. Safer Abbass)  
Reference of the request letter # 3976/11/MT/01/Lot-1/117

Dated: 07-07-2021  
Dated: 06-07-2021

**Weight & Size Test Report** (Page – 3/3)

Date of Test 16-07-2021  
Description MS Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	16	3509	60.40	58.10	407.0	395.20	5.90	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Commanding Officer  
 21 Engineer Battalion  
 Additional Lanes between Faizpur Interchange to Ravi Toll Plaza, Expansion of Ravi Toll Plaza  
 and Construction of Administration Building VO-2(M-2)

Reference # CED/TFL **36710** (Dr. Ali Ahmed)  
 Reference of the request letter # 607/VO-2/Proj

Dated: 07-07-2021  
 Dated: 28-06-2021

**Tension Test Report** (Page -1/2)

Date of Test 14-07-2021  
 Gauge length 8 inches  
 Description J Bolt Steel Bar Tensile Test as per ASTM F 1554

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	6.676	32	32.91	-----	850.5	25600	41000	295	473	2.10	26.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
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,  
Commanding Officer  
21 Engineer Battalion  
Additional Lanes between Faizpur Interchange to Ravi Toll Plaza, Expansion of Ravi Toll Plaza  
and Construction of Administration Building VO-2(M-2)

Reference # CED/TFL **36710** (Dr. Ali Ahmed)  
Reference of the request letter # 607/VO-2/Proj

Dated: 07-07-2021  
Dated: 28-06-2021

**Tension Test Report** (Page – 2/2)

Date of Test 16-07-2021  
Gauge length 2 inches  
Description Structural Tubing Pipe Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Structural Tubing Pipe	23.90x7.25	173.28	7000	8400	396.31	475.57	0.65	32.50	
2		24.00x7.25	174.00	6900	8600	389.02	484.86	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Chase International Patato Cold Storage  
10 km Depalpur Road, Okara

Reference # CED/TFL **36714** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 08-07-2021

Dated: 08-07-2021

**Tension Test Report** (Page – 1/2)

Date of Test 16-07-2021  
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
1	Angle Iron	24.00x6.70	160.80	5700	9400	347.74	573.47	0.60	30.00	
2		24.00x6.80	163.20	6400	9600	384.71	577.06	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Angle Iron Bend Test Through 180° is Satisfactory										

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

Note:

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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,  
M/S Chase International Patato Cold Storage  
10 km Depalpur Road, Okara

Reference # CED/TFL **36714** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 08-07-2021

Dated: 08-07-2021

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

Date of Test 16-07-2021

Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Wall Thickness	Remark
1	Angle Iron	1470	29.72	4.95	50.00	49.60	7.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Resident Engineer  
 Pillar & Sons  
 Rumanaza Golf & Country Club, DHA Multan

Reference # CED/TFL **36770** (Dr. M Rizwan Riaz)  
 Reference of the request letter # P&S/OTH/GEN/00034

Dated: 15-07-2021  
 Dated: 10-07-2021

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

Date of Test 16-07-2021  
 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	0.371	3	0.373	0.11	0.109	3500	5400	70200	70720	108200	109200	1.30	16.3	
2	0.379	3	0.377	0.11	0.111	3500	5000	70200	69280	100200	99000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 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,  
 Resident Engineer  
 MM Pakistan (Pvt) Ltd  
 Kachhi Canal Project Contract No. KC-6B(2R) Construction of Main Canal and Its Distribution System (from RD 1193+000 to RD 1252+000)

Reference # CED/TFL **36773** (Dr. M Rizwan Riaz)  
 Reference of the request letter # KCP/RE/KC-6(2R)/02

Dated: 15-07-2021  
 Dated: 14-07-2021

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

Date of Test 16-07-2021  
 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	3000	4200	60200	61140	84200	85600	1.30	16.3	Nonee Steel
2	0.367	3	0.371	0.11	0.108	3000	4200	60200	61220	84200	85700	1.40	17.5	
3	4.270	10	1.264	1.27	1.255	40400	53400	70200	70950	92700	93800	1.40	17.5	
4	4.245	10	1.260	1.27	1.248	40200	53200	69800	71010	92400	94000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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**Pakistan. Ph: 92-42-99029202**

To,  
 Assistant Project Director  
 PMU – SBP  
 Construction / Completion of Internation Squash Complex at Nishtar Park Sports Complex,  
 Lahore (GS # 542)  
 Reference # CED/TFL **36774** (Dr. M Rizwan Riaz) Dated: 15-07-2021  
 Reference of the request letter # APD/PMU/SBP/LHR/21/07 Dated: 13-07-2021

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

Date of Test 16-07-2021  
 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	0.374	3/8	0.374	0.11	0.110	3200	4900	64200	64150	98200	98300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Asst. Manager Coordination  
 Izhar Construction (Pvt) Ltd  
 Construction of Oil Warehouse & Stamping Building at Atlas Honda Limited, Sheikhpura

Reference # CED/TFL **36775** (Dr. M Rizwan Riaz)  
 Reference of the request letter # ICPL/CONST-ANL/21/085

Dated: 15-07-2021  
 Dated: 14-07-2021

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

Date of Test 16-07-2021  
 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	0.377	10	9.54	0.12	0.111	3300	4900	60627	65600	90021	97400	1.30	16.3	Kamran Steel
2	0.378	10	9.55	0.12	0.111	3300	4900	60627	65470	90021	97200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of PD House No. 104-B Sector-I, DHA Ph-XI Rahbar) – (M/s DHA-C)

Reference # CED/TFL **36776** (Dr. M Rizwan Riaz)  
Reference of the request letter # 408/241/E/Lab/104/58

Dated: 15-07-2021  
Dated: 14-07-2021

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

Date of Test 16-07-2021  
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	0.384	3	0.379	0.11	0.113	3700	5700	74200	72230	114300	111300	1.20	15.0	Saeed Steel
2	0.388	3	0.381	0.11	0.114	3900	5800	78200	75340	116300	112100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Sub Divisional Officer  
 Building Sub Division  
 Nankana Sahib  
 (Baba Guru Nanka University at Nankana Sahib (Phase-I) Group No. 1)

Reference # CED/TFL **36782** (Dr. Qasim Khan)  
 Reference of the request letter # 47/SDO/BSO/NNS

Dated: 16-07-2021  
 Dated: 12-07-2021

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

Date of Test 19-07-2021  
 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	0.378	3	0.376	0.11	0.111	3700	4800	74200	73450	96200	95300	0.90	11.3	
2	0.378	3	0.376	0.11	0.111	3600	4800	72200	71360	96200	95200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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