



**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 **36365** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3976/11/MT/01/Lot-1/71

Dated: 22-04-2021  
Dated: 21-04-2021

**Tension Test Report** (Page – 1/3)

Date of Test 29-04-2021  
Gauge length 2 inches  
Description G.I 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
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)			
1	G.I Pipe	50	25.80x3.55	91.59	4700	5200	503.41	556.96	0.30	15.00	
2			25.90x3.55	91.95	4700	5300	501.46	565.48	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from G.I Pipe (50mm) Bend Test Through 180° is Satisfactory											

**I/C Testing Laboratories**  
**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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
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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 **36365** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3976/11/MT/01/Lot-1/71

Dated: 22-04-2021  
Dated: 21-04-2021

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

Date of Test 29-04-2021  
Description G.I Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 50mm	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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Consultancy Services for Engineering, Procurement and Construction Management  
Rehabilitation / Improvement of Water Supply System Sahiwal - Lot 1

Reference # CED/TFL **36365** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3976/11/MT/01/Lot-1/71

Dated: 22-04-2021  
Dated: 21-04-2021

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

Date of Test 29-04-2021  
Description G.I Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(mm)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	50	294	59.80	4.92	60.10	53.00	3.55	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Executive Engineer PWD  
 PHE Division Kotli  
 (Water Supply Scheme Charhoi)

Reference # CED/TFL **36371** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 436-38 XEN/PWD/PHE

Dated: 23-04-2021  
 Dated: 22-03-2021

**Tension Test Report** (Page – 1/3)

Date of Test 29-04-2021  
 Gauge length 2 inches  
 Description G.I 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	G.I Pipe	2	25.80x3.60	92.88	2700	3000	285.17	316.86	0.70	35.00	
2			26.00x3.60	93.60	2800	3100	293.46	324.90	0.65	32.50	
3	G.I Pipe	3	25.90x5.00	129.50	5400	6200	409.07	469.67	0.50	25.00	
4			25.80x4.90	126.42	5500	6300	426.79	488.87	0.40	20.00	
5	G.I Pipe	4	25.90x5.70	147.63	5200	7900	345.54	524.95	0.50	25.00	
6			25.90x5.65	146.34	5500	7900	368.71	529.60	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Six Samples for Tensile and Three Samples for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from G.I Pipe (2") Bend Test Through 180° is Satisfactory											
Strip Taken from G.I Pipe (3") Bend Test Through 180° is Satisfactory											
Strip Taken from G.I Pipe (4") Bend Test Through 180° is Satisfactory											

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

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Executive Engineer PWD  
PHE Division Kotli  
(Water Supply Scheme Charhoi)

Reference # CED/TFL **36371** (Dr. M Rizwan Riaz)  
Reference of the request letter # 436-38 XEN/PWD/PHE

Dated: 23-04-2021  
Dated: 22-03-2021

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

Date of Test 29-04-2021  
Description G.I Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 2"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	Pipe 3"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
3	Pipe 4"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
<b>Only Three Samples for Test</b>			

**I/C Testing Laboratories**  
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To,  
Executive Engineer PWD  
PHE Division Kotli  
(Water Supply Scheme Charhoi)

Reference # CED/TFL **36371** (Dr. M Rizwan Riaz)  
Reference of the request letter # 436-38 XEN/PWD/PHE

Dated: 23-04-2021  
Dated: 22-03-2021

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

Date of Test 29-04-2021  
Description G.I 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	2	451	59.80	7.54	88.70	81.60	3.55	
2	3	806	59.60	13.52	115.00	105.00	5.00	
3	4	1360	59.60	22.82	166.00	154.70	5.65	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>								

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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 Defence Housing Authority.  
Lahore Cantt  
(Const. of Boundary Wall Sector-B Town Ph-9) – (M/s DHA C)

Reference # CED/TFL **36391** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/67/01/BW

Dated: 28-04-2021  
Dated: 27-04-2021

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

Date of Test 29-04-2021  
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	0.372	0.11	0.109	3400	5300	68200	68770	106200	107200	1.20	15.0	Saeed Kasur
2	0.371	3	0.373	0.11	0.109	3400	5400	68200	68670	108200	109100	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.**

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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 Defence Housing Authority.  
Lahore Cantt  
(Const. of Screening Chamber Sector-Q Ph-VII) – (M/s DHA C)

Reference # CED/TFL **36391** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/66/01/Q

Dated: 28-04-2021  
Dated: 27-04-2021

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

Date of Test 29-04-2021  
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	0.373	3	0.374	0.11	0.110	3400	5300	68200	68300	106200	106500	1.10	13.8	Saeed Kasur
2	0.371	3	0.373	0.11	0.109	3400	5300	68200	68770	106200	107200	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														

**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,  
 Sub Divisional Officer, (Buildings)  
 Sub Division Ferozewala  
 (Construction of Judicial Academy at Lahore Kala Shah Kaku, Lahore)(Group - I, Phase -II)  
 (Gymnasium)  
 Reference # CED/TFL 36392 (Dr. Usman Akmal)  
 Reference of the request letter # 1012/F

Dated: 28-04-2021  
 Dated: 19-04-2021

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

Date of Test 29-04-2021  
 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	0.384	3/8	0.379	0.11	0.113	3300	4700	66200	64360	94200	91700	1.40	17.5	
2	0.384	3/8	0.379	0.11	0.113	3300	4700	66200	64410	94200	91800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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

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**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Assistant Director-I  
 Building Research Station  
 Lahore  
 (M/s Kamran Steel Re-Rolling Mills (Pvt) Ltd., Lahore)

Reference # CED/TFL **36393** (Dr. Usman Akmal)  
 Reference of the request letter # 154-R/1068

Dated: 28-04-2021  
 Dated: 27-04-2021

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

Date of Test 29-04-2021  
 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	0.370	3	0.372	0.11	0.109	3100	4600	62200	62810	92200	93200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample 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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**Pakistan. Ph: 92-42-99029202**

To,  
 Dy Director (Engineering)  
 Rawalpindi Development Authority  
 Construction/ Widening & Improvement of Dry Port Road from Raheemaabad Flyover at  
 Airport to Welfare Complex via Chakalal Railway Station & Shell Depot, Rawalpindi

Reference # CED/TFL **36395** (Dr. Usman Akmal)  
 Reference of the request letter # RDA/DD/214/Rwp

Dated: 28-04-2021  
 Dated: 20-04-2021

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

Date of Test 29-04-2021  
 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	0.367	3	0.371	0.11	0.108	2900	4500	58200	59250	90200	92000	1.30	16.3	
2	0.368	3	0.371	0.11	0.108	2900	4600	58200	59070	92200	93700	1.50	18.8	
3	0.365	3	0.370	0.11	0.107	2900	4500	58200	59600	90200	92500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
 Assistant Project Director  
 PMU-SBP (North), Rawalpindi  
 (Construction of Tehsil Sports Complex Pind Dadan Khan Jhelum (GS # 155))

Reference # CED/TFL **36396** (Dr. Usman Akmal) Dated: 28-04-2021  
 Reference of the request letter # ADP/PMU/SBP/RWP/21/1075 Dated: 17-04-2021

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

Date of Test 29-04-2021  
 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	0.362	3/8	0.368	0.11	0.106	3700	4800	74200	76600	96200	99400	1.00	12.5	
2	0.376	3/8	0.375	0.11	0.110	3600	4700	72200	71840	94200	93800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

**I/C Testing Laboratories**  
**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)
- 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,  
 Resident Engineer  
 Engineering Consultancy Services Punjab (Pvt) Ltd  
 Supply, Construction, Installation of Conventional Treatment Plant in Chak Jhumrah Tehsil,  
 Faisalabad  
 Reference # CED/TFL 36397 (Dr. Usman Akmal) Dated: 28-04-2021  
 Reference of the request letter # ECSP/PAPA/CZ-CJ-32 Dated: 22-04-2021

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

Date of Test 29-04-2021  
 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	5000	64200	64170	100200	100300	1.10	13.8	Batala Premium	
2	0.372	3/8	0.373	0.11	0.109	3100	5000	62200	62520	100200	100900	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															

**I/C Testing Laboratoires**  
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