



**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 New Mujahid ALCON  
Lahore  
(The QUBE Lahore)

Reference # CED/TFL **35802** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 22-12-2020  
Dated: 21-12-2020

**Tension Test Report** (Page – 1/1)

Date of Test 30-12-2020  
Gauge length 2 inches  
Description Welded Steel Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(MPa)	(inch)		
1	150x150	25.20x6.00	151.20	7600	493.10	0.45	22.50	Failure at the location other than weld
2		25.20x6.00	151.20	7400	480.12	0.45	22.50	Failure at the location other than weld
3	75x75	25.30x5.30	134.09	6500	475.54	0.50	25.00	Failure at the location other than weld
4		25.30x5.30	134.09	6500	475.54	0.40	20.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
<b>Only four samples for tensile and two samples for bend test</b>								
<b>Bend Test</b>								
Strip taken from Welded Steel Pipe (150x150mm) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Steel Pipe (75x75mm) 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  
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To,  
 Project Director (North-3)  
 PAEC, Chashma  
 “Construction of SCF Building at Chashma”

Reference # CED/TFL **35831** (Dr. Ali Ahmed) Dated: 29-12-2020  
 Reference of the request letter # WASO-P(KCI)-LOI-002-(323)/2020 Dated: 17-12-2020

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

Date of Test 30-12-2020  
 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3500	5300	70200	70600	106200	107000	1.20	15.0	621 Al-Moiz Steel
2	0.372	3	0.373	0.11	0.109	3500	5300	70200	70490	106200	106800	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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To,  
 Construction Manager  
 NESPAK  
 Establishment of Punjab Local Government Academy Building - Lahore

Reference # CED/TFL **35833** (Dr. Ali Ahmed)  
 Reference of the request letter # 3976/13/MHK/01/172

Dated: 29-12-2020  
 Dated: 28-12-2020

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

Date of Test 30-12-2020  
 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	0.386	3	0.380	0.11	0.114	4500	5400	90200	87390	108200	104900	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one 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,  
 Resident Engineer  
 NESPAK  
 Public Spaces Upgradation of Existing Parks in Sahiwal & Sialkot  
 Lot-2: Works for Upgradation of 4 Existing Parks in Sialkot

Reference # CED/TFL **35834** (Dr. Ali Ahmed)  
 Reference of the request letter # Nespak/SAH/UET/023

Dated: 29-12-2020  
 Dated: 29-12-2020

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

Date of Test 30-12-2020  
 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	0.373	3/8	0.374	0.11	0.110	3700	5000	74200	74390	100200	100600	0.80	10.0	
2	0.373	3/8	0.373	0.11	0.110	4000	5100	80200	80480	102200	102700	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**Test Floor Laboratory**  
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To,  
 Resident Engineer  
 Water Wise  
 Program to Uplift Water Supply and Sanitation Infrastructure in Underdeveloped Area of Punjab  
 (Part-A), Package-1 (Development of Water Sources in Khaattak Belt, Mainwali)

Reference # CED/TFL **35836** (Dr. Ali Ahmed) Dated: 29-12-2020  
 Reference of the request letter # WW/PHED/PKGI/RE/LT/009 Dated: 25-12-2020

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

Date of Test 30-12-2020  
 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	4.204	10	1.254	1.27	1.236	38600	59200	67000	68860	102800	105600	1.30	16.3	Batala Premium
2	4.213	10	1.256	1.27	1.238	38400	59000	66700	68350	102400	105100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
Resident Engineer  
Water Wise  
Program to Uplift Water Supply and Sanitation Infrastructure in Underdeveloped Area of Punjab  
(Part-A), Package-1 (Development of Water Sources in Khaattak Belt, Mainwali)

Reference # CED/TFL **35837** (Dr. Ali Ahmed)  
Reference of the request letter # WW/PHED/PKGI/RE/LT/011

Dated: 29-12-2020  
Dated: 25-12-2020

**Tension Test Report** (Page – 1/2)

Date of Test 30-12-2020  
Gauge length 2 inches  
Description GI Wire for Gabion Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(cm)	(cm <sup>2</sup> )	(kg)	(kg/cm <sup>2</sup> )	(inch)		
1	0.32	0.08	600	7460	0.50	25.00	
2	0.32	0.08	600	7460	0.50	25.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>							

**I/C Testing Laboratories**  
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To,  
Resident Engineer  
Water Wise  
Program to Uplift Water Supply and Sanitation Infrastructure in Underdeveloped Area of Punjab  
(Part-A), Package-1 (Development of Water Sources in Khaattak Belt, Mainwali)

Reference # CED/TFL **35837** (Dr. Ali Ahmed)  
Reference of the request letter # WW/PHED/PKGI/RE/LT/011

Dated: 29-12-2020  
Dated: 25-12-2020

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

Date of Test 30-12-2020  
Description GI Wire for Gabion Weight & Size Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Remarks
		Measured (mm)	Actual (mm)	Nominal	Actual	
1	0.066	3.20	3.28	-----	8.4	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
<b>Note: only one sample for test</b>						

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

To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Infra Structure Work, Pkg-1, Sector-R, DHA Ph-IX - (M/s DHA-C))

Reference # CED/TFL **35838** (Dr. Ali Ahmed)  
Reference of the request letter # 408/241/E/Lab/1071/204

Dated: 29-12-2020  
Dated: 24-12-2020

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

Date of Test 30-12-2020  
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	0.267	3	0.316	0.11	0.079	3300	4900	66200	92590	98200	137500	1.30	16.3	Kamran Steel
2	0.379	3	0.377	0.11	0.112	3300	4900	66200	65210	98200	96900	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**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Deputy Assistant Director Housing  
 DAD (Works) 1 –I Lahore  
 GHQ, AG’s Branch (Housing Dte)  
 Army Officers Housing Complex  
 Street No. 26, Sector-B, Askari-XI  
 Bedian Road Lahore Cantt  
 Reference # CED/TFL **35839** (Dr. Ali Ahmed  
 Reference of the request letter # 786/3/XI/Gen

Dated: 29-12-2020  
 Dated: 29-12-2020

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

Date of Test 30-12-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.389	3/8	0.382	0.11	0.114	4100	6200	82200	79050	124300	119600	0.90	11.3	
2	0.390	3/8	0.382	0.11	0.115	4200	6300	84200	80750	126300	121200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
 Project Manager  
 Engineering Kinetics (Pvt) Ltd  
 Extension of Social Block at Pepsi Co, Multan Industrial Estate

Reference # CED/TFL **35843** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 30-12-2020  
 Dated: 29-12-2020

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

Date of Test 30-12-2020  
 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	0.380	3/8	0.377	0.11	0.112	3100	5000	62200	61190	100200	98700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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