



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

To,  
 Assistant Resident Engineer  
 NESPAK  
 Stom Water Drainage System from Haji Camp to River Ravi via Lakshmi Chowk, Mcleod Road,  
 Nabha Road, Churburji and Sham Nagar to River Ravi (Package-II)

Reference # CED/TFL **37368** (Dr. Usman Akmal)  
 Reference of the request letter # 3882/11/MWA/SO-01/262

Dated: 16-11-2021  
 Dated: 11-11-2021

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

Date of Test 18-11-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Ben;d 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	0.380	3	0.377	0.11	0.112	3800	5000	76200	75070	100200	98800	1.00	12.5	SJ Steel
2	0.370	3	0.372	0.11	0.109	3800	5000	76200	77030	100200	101400	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														

**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)
2. The above results pertain to sample /samples supplied to this laboratory.
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To,  
 Resident Engineer  
 ACE, Danish School  
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **37369** (Dr. Usman Akmal) Dated: 16-11-2021  
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/464 Dated: 15-11-2021

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

Date of Test 18-11-2021  
 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	0.376	3/8	0.375	0.11	0.110	3500	5300	70200	69850	106200	105800	1.20	15.0	
2	0.376	3/8	0.375	0.11	0.111	3600	5300	72200	71730	106200	105600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
 Project Manager  
 Zaheer Associates  
 AR Developers & Town Planers  
 Shapes Health Club in Garound Floor Slab K-Block Al-Rehman Garden Ph-II Lahore

Reference # CED/TFL **37370** (Dr. Usman Akmal)  
 Reference of the request letter # Z.A/A.R/19-21

Dated: 16-11-2021  
 Dated: 15-11-2021

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

Date of Test 18-11-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Ben;d 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	0.376	3	0.375	0.11	0.110	3700	4700	74200	73860	94200	93900	1.10	13.8	Mughal Steel
2	0.372	3	0.373	0.11	0.109	3600	4800	72200	72600	96200	96800	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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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Resident Engineer  
 Pillar & Sons  
 Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL 37372 (Dr. Usman Akmal)  
 Reference of the request letter # P&S/OTH/GEN/00050

Dated: 16-11-2021  
 Dated: 13-11-2021

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

Date of Test 18-11-2021  
 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	3600	5200	72200	71380	104200	103100	1.10	13.8	SJ Steel
2	0.378	3	0.376	0.11	0.111	3800	5200	76200	75410	104200	103200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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

To,  
 Resident Engineer  
 Pillar & Sons  
 Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL **37372** (Dr. Usman Akmal)  
 Reference of the request letter # P&S/OTH/GEN/00049

Dated: 16-11-2021  
 Dated: 09-11-2021

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

Date of Test 18-11-2021  
 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	4.247	10	1.261	1.27	1.248	42600	54600	74000	75220	94800	96400	1.20	15.0	SJ Steel
2	4.227	10	1.258	1.27	1.243	39600	52800	68800	70250	91700	93700	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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To,  
M/S Mian Brothers Precast (Pvt) Ltd.  
Lahore

Reference # CED/TFL **37374** (Dr. Usman Akmal)  
Reference of the request letter # MBP/UET/21/0817

Dated: 17-11-2021

Dated: 17-11-2021

**Tension Test Report** (Page – 1/1)

Date of Test 18-11-2021  
Gauge length 640 mm  
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	440.0	9900	97.12	11200	109.87	>3.50	xx
2	11.11 (7/16")	582.0	587.0	13200	129.49	15000	147.15	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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**UET Lahore, Pakistan.**

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To,  
Resident Engineer  
Mascon Associates (Pvt) Ltd  
HA Consulting  
Resident Supervision / PV Execution of Construction of Model Bazaar at Mianwali

Reference # CED/TFL **37375** (Dr. Usman Akmal)

Dated: 17-11-2021

Reference of the request letter # MAC-HAC/MBMW/11-21/LAB/02

Dated: 17-11-2021

**Tension Test Report** (Page – 1/1)

Date of Test 18-11-2021

Gauge length 2 inches

Description Sheet 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	8	26.00x7.80	202.80	7000	11000	339	532	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>Only One Sample for Tensile Test</b>										
<b>Bend Test</b>										

**I/C Testing Laboratories**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Khawaja Wollen Mills (Pvt) Ltd  
Gujranwala

Reference # CED/TFL **37376** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 17-11-2021  
Dated: 17-11-2021

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

Date of Test 18-11-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Ben;d 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	0.372	3	0.373	0.11	0.109	3900	5100	78200	78700	102200	103000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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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,  
 Assistant Director - I  
 Building Research Station  
 Lahore  
 (Agha Arcon)

Reference # CED/TFL **37378** (Dr. Usman Akmal)  
 Reference of the request letter # 154-R/3435

Dated: 17-11-2021  
 Dated: 16-11-2021

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

Date of Test 18-11-2021  
 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	0.375	3	0.375	0.11	0.110	3700	4800	74200	73980	96200	96000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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