



**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 Abdul Rehman Construction Co.  
Afghanistan

Reference # CED/TFL **5554** (Dr. M Kashif)  
Reference of the request letter # Nil

Dated: 23-08-2023  
Dated: 23-08-2023

**Tension Test Report** (Page – 1/1)

Date of Test 30-08-2023  
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	12.70 (1/2")	780.0	774.0	18600	182.47	20100	197.18	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only one sample for Test</b>									

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

Note:

- 1- You can See your reports On Internet in the following web site  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
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To,  
 Engineer's Representative  
 NESPAK  
 Construction of Celestia Tower, NSIT City.

Reference # CED/TFL **5568** (Dr. M Kashif)  
 Reference of the request letter # 4322/13/SA/09/12

Dated: 27-08-2024  
 Dated: 21-08-2024

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

Date of Test 30-08-2024  
 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	5.234	11	1.400	1.56	1.538	49200	66200	69600	70490	93600	94900	1.20	15.0	Pak steel
2	5.244	11	1.401	1.56	1.542	48600	66400	68700	69490	93900	95000	1.40	17.5	
3	5.230	11	1.399	1.56	1.537	54800	72400	77500	78580	102300	103900	1.40	17.5	
4	5.244	11	1.401	1.56	1.542	51800	69400	73200	74070	98100	99300	1.60	20.0	
5	5.250	11	1.402	1.56	1.543	44600	61600	63100	63700	87100	88000	1.50	18.8	
6	5.258	11	1.403	1.56	1.545	45400	63200	64200	64750	89300	90200	1.80	22.5	
<b>Note: only six samples for tensile and three samples for bend test</b>														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

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

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To,

Manager Material (Engr)  
Central Material Testing Laboratory  
Defence Housing Authority Islamabad - Rawalpindi

Reference # CED/TFL **5569** (Dr. M Kashif)

Dated: 27-08-2024

Reference of the request letter # DHAI-R/QA Sec/Cen Lab/Ph-I

Dated: 19-08-2024

**Tension Test Report** (Page – 1/1)

Date of Test 30-08-2024

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	12.70 (1/2")	780.0	781.0	17600	172.66	19200	188.35	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only one sample for Test</b>									

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

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To,  
 QAQC Manager  
 Zameen Development  
 Zameen Phoenix  
 Construction of Zameen Phoenix at Shadman II, Lahore.

Reference # CED/TFL **5570** (Dr. M Kashif)  
 Reference of the request letter # ZD/QAQC/Phoenix/02

Dated: 28-08-2024  
 Dated: 28-08-2024

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

Date of Test 30-08-2024  
 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	4.149	10	1.246	1.27	1.220	35200	53200	61100	63620	92400	96200	1.40	17.5	Heat # 49 & 65
2	4.172	10	1.250	1.27	1.226	36400	53400	63200	65430	92700	96000	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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Ref: CED/TFL/08/5579

Dated: 29-08-24

Date of Test: 30-08-2024

To

**M/S Textile Resource**  
**Lahore**

**Subject: - TEST RESULT REPORT FOR COMPRESSION TEST**

Reference to your letter no. Nil, Dated: 28/08/2024 on the above mentioned subject. Three samples of different material for compression test have been tested as requested by the client. The results are given below.

<b>Sr. No.</b>	<b>Material</b>	<b>Ultimate Load (kg)</b>	<b>Remarks</b>
1	Pvc - Material	7300	Excessive deformation at Ultimate load.
2	Wooden - Packing	23200	The specimen was cracked at Ultimate Load.
3	Epoxy Material	190 000	No visible surface crack was observed.

**Note : The Samples were directly placed at the machine platform.**

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To,

Team Leader / Chief Resident Engineer  
MMP – PCP  
Package-5  
Comprehensive Sewerage System in Okara City Under Punjab Cities Program.

Reference # CED/TFL **5582** (Dr. M Kashif)

Dated: 30-08-2024

Reference of the request letter # MMP/PMDFC/1096/TEST/1651/2024

Dated: 28-08-2024

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

Date of Test 30-08-2024

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	0.168	1/4	0.251	-----	0.049	1260	1850	-----	56260	-----	82700	1.50	18.8	
2	0.190	1/4	0.267	-----	0.056	1380	1780	-----	54400	-----	70200	1.30	16.3	
3	0.374	3/8	0.374	0.11	0.110	3540	5220	71000	71020	104600	104800	1.10	13.8	
4	0.381	3/8	0.378	0.11	0.112	3740	5520	75000	73560	110700	108600	1.20	15.0	
5	0.384	3/8	0.379	0.11	0.113	3790	5520	76000	74070	110700	107900	1.00	12.5	
6	0.371	3/8	0.373	0.11	0.109	3540	5200	71000	71590	104200	105200	1.20	15.0	
<b>Note: only six samples for tensile and three samples for bend test</b>														
Bend Test														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,

Addl Dir (MEP)  
Defence Housing Authority, Gujranwala  
“External Electrification System (Under Ground) for Sector C&G DHA Gujranwala.”

Reference # CED/TFL **5585** (Dr. M Kashif)

Dated: 30-08-2024

Reference of the request letter # 318/2/10/MEP/UG Elec Sec C&G Dated: 28-08-2024

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

Date of Test 30-08-2024

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	0.390	3	0.382	0.11	0.115	3870	5470	77600	74470	109600	105300	1.10	13.8	SJ Steel
2	0.374	3	0.374	0.11	0.110	3640	5270	73000	73050	105600	105800	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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