



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 Unze Trading (Pvt) Limited
Lahore
(PESCO PC Pole Plant Jehangira for Manufacturing & Providing of Prestressed Cement
Concrete Hollow LT & HT Poles.)

Reference # CED/TFL 4047 (Dr. M Kashif)
Reference of the request letter # Unze/315/2023

Dated: 11-10-2023
Dated: 05-10-2023

Tension Test Report (Page -1/2)

Date of Test 16-10-2023
Gauge length 8 inches
Description MS Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		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	0.152	5	4.96	----	19.3	----	1560	----	793	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

M/S Unze Trading (Pvt) Limited
Lahore
(PESCO PC Pole Plant Jehangira for Manufacturing & Providing of Prestressed Cement
Concrete Hollow LT & HT Poles.)

Reference # CED/TFL **4047** (Dr. M Kashif)
Reference of the request letter # Unze/315/2023

Dated: 11-10-2023

Dated: 05-10-2023

Tension Test Report (Page -2/2)

Date of Test 21-07-2023
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	9.53 (3/8")	432.0	430.0	10000	98.10	11200	109.87	>3.50	xx
2	11.11 (7/16")	582.0	590.0	10600	103.99	14800	145.19	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Canal 44
Luxury Apartments
Lahore

Reference # CED/TFL **4057** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 12-10-2023
Dated: 12-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
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 ²)		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	0.369	3	0.372	0.11	0.109	3200	4600	64200	64980	92200	93400	1.40	17.5	
2	0.370	3	0.372	0.11	0.109	3500	4800	70200	70930	96200	97300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Sub Divisional Officer
Buildings Sub Division
Nankana Sahib
(Construction of PHP Post Zafar Ullah District Nankana Sahib.)

Reference # CED/TFL **4058** (Dr. M Kashif)
Reference of the request letter # 1155/SDO/BSD/NNS

Dated: 12-10-2023
Dated: 22-09-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
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 ²)		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	3800	5800	76200	74140	116300	113200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
 Project Engineer
 Meazan Beeverage Dairy Unit pvt. Ltd.
 Halla, Pattoki
 (Extension of Cow Shed 9 & 10 at Pattoki)

Reference # CED/TFL **4059** (Dr. M Kashif)
 Reference of the request letter # MD/Con/CIV/00151

Dated: 12-10-2023
 Dated: 12-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
 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 ²)		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	0.369	3	0.371	0.11	0.108	3500	4700	70200	71220	94200	95700	1.20	15.0	
2	0.367	3	0.370	0.11	0.108	3400	4700	68200	69540	94200	96200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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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To,
 Asst Dir Infra
 Defence Housing Authority, Gujranwala
 "Sector G"

Reference # CED/TFL **4060** (Dr. M Kashif)
 Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2B/2210

Dated: 12-10-2023
 Dated: 11-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
 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 ²)		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	0.383	3	0.379	0.11	0.113	3400	5100	68200	66500	102200	99800	1.20	15.0	Siraj Steel
2	0.383	3	0.379	0.11	0.113	3500	5100	70200	68540	102200	99900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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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To,

Material Engineer
Engineering Consultancy Services Punjab (Pvt) Limited.
Engineering Consultancy Services for Construction of MPA's Hostel Lahore, Phase-II.

Reference # CED/TFL **4061** (Dr. M Kashif)
Reference of the request letter # 340/ECSP/MPA/ME/70

Dated: 12-10-2023
Dated: 09-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
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 ²)		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	0.379	3	0.377	0.11	0.111	3500	4900	70200	69290	98200	97000	1.30	16.3	Kamran Steel
2	0.378	3	0.376	0.11	0.111	3600	4900	72200	71490	98200	97400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **4062** (Dr. M Kashif)
Reference of the request letter # UWIL/D-1870

Dated: 12-10-2023

Dated: 12-10-2023

Tension Test Report (Page – 1/1)

Date of Test 16-10-2023

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	15.24 (0.6")	1102.0	1130.0	24000	235.44	27700	271.74	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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UET Lahore, Pakistan.

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To,

M/S Beacon Impex
 Construction of Dye House –II/Ware House Godowns at Beacon Impex
 34 – km Sheikhpura Road, Faisalabad
 (M/s M. Saleem Construction Company.)

Reference # CED/TFL **4064** (Dr. M Kashif)
 Reference of the request letter # B.I/CIVIL/23-43

Dated: 13-10-2023
 Dated: 13-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023
 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 ²)		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	0.363	3	0.369	0.11	0.107	4800	6100	96200	99170	122300	126100	0.80	10.0	Kisan
2	0.365	3	0.369	0.11	0.107	4800	5800	96200	98690	116300	119300	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
 NESPAK
 Development of a Controlled Access Corridor Facility from Niazi Interchange to Babu Sabu Interchange, Lahore, Package – II (km 3+650 to km 7+300)

Reference # CED/TFL **4067** (Dr. M Kashif)

Dated: 16-10-2023

Reference of the request letter # 3772/103/NBI(P-II)/MWA/03/16

Dated: 14-10-2023

Tension Test Report (Page -1/1)

Date of Test 16-10-2023

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 ²)		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	0.382	3	0.378	0.11	0.112	3200	5400	64200	62800	108200	106000	1.20	15.0	Bata Premium
2	0.382	3	0.378	0.11	0.112	3500	5400	70200	68690	108200	106000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
 UET Lahore, Pakistan.

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