



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 Izhar Concrete (Pvt) Ltd
Lahore

Reference # CED/TFL 37692 (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 11-01-2022

Dated: 11-01-2022

Tension Test Report (Page – 1/2)

Date of Test 17-01-2022

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)		Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	9.53 (3/8")	432.0	434.0	9600	94.18	10600	103.99	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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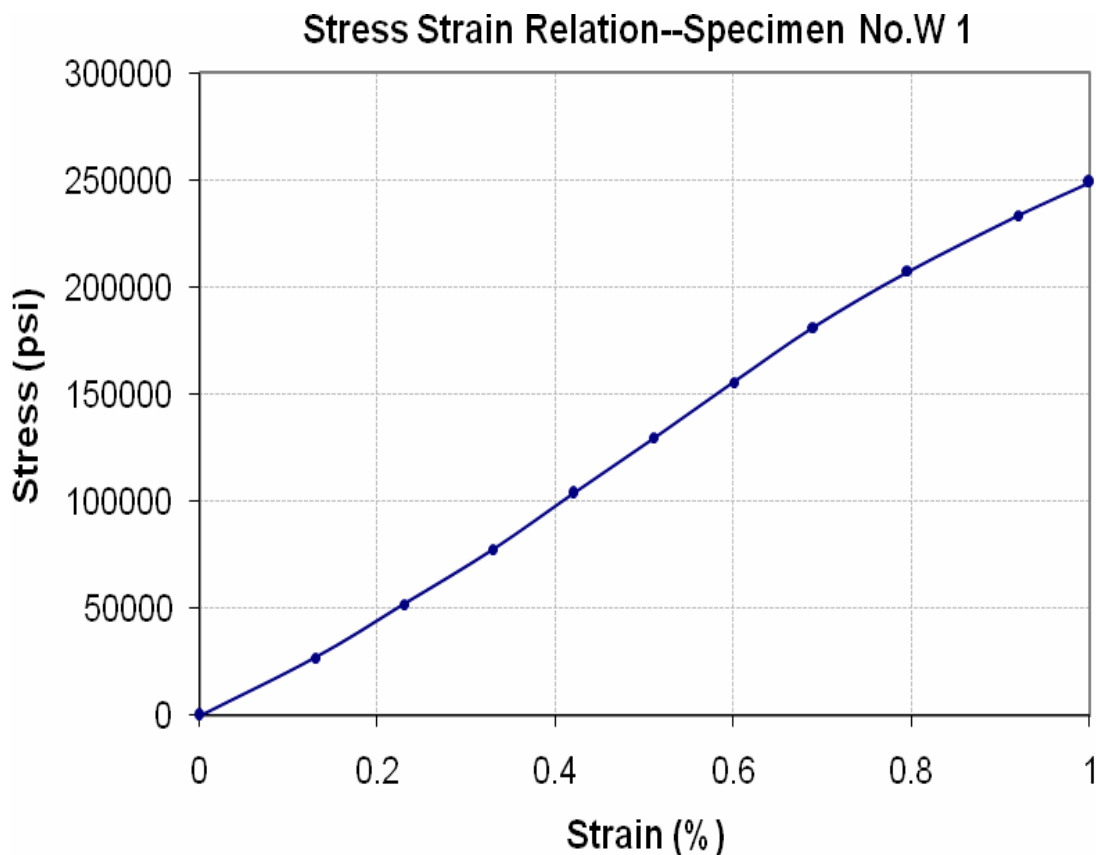
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To,
To,
M/S Izhar Concrete (Pvt) Ltd
Lahore

Reference # CED/TFL **37692** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 11-01-2022
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Graph (Page – 2/2)



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To,
M/SHaris & Company
Lahore
(Jazz Lahore Improvement Plan 2021 Project Site ID: LHR9156 LIP_109, LHR9110 LIP_114

Reference # CED/TFL 37706 (Dr. Asad Ali)
Reference of the request letter #0014

Dated: 14-01-2022
Dated: 14-01-2022

Tension Test Report (Page -1/1)

Date of Test 17-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		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	0.400	10	9.82	0.12	0.117	4400	5900	80835	82540	108393	110700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Project Managers
Lahore
(Allied Bank Limited Plot No. 14 Block A3 Gulberg III Lahore)

Reference # CED/TFL **37708** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 17-01-2022
Dated: 17-01-2022

Tension Test Report (Page -1/1)

Date of Test 17-01-2022
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	0.386	3	0.380	0.11	0.113	3700	4900	74200	71860	98200	95200	1.20	15.0	
2	0.385	3	0.380	0.11	0.113	3700	4850	74200	72070	97200	94500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M. Anas (Officer Civil)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Assistant Engineer
 Engineering Services Consultants
 Short Consultancy Services for Third Party Validation of Urban Sewerage / PCC & Tuff Tile
 Scheme Naroiwal City Tehsil & District Narowal

Reference # CED/TFL **37710** (Dr. Asif Hameed)
 Reference of the request letter # ESC/TPV-NRW/03

Dated: 17-01-2022
 Dated: 17-01-2022

Tension Test Report (Page -1/1)

Date of Test 17-01-2022
 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 ²)		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	0.153	1/4	0.239	----	0.045	1200	1500	----	58760	----	73500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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