



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

To,
 Senior Manager Projects - Civil
 Vision Packaging
 Volka Food International Limited

Reference # CED/TFL **3156** (Dr. Rizwan Azam)
 Reference of the request letter # VFI/Civil/17

Dated: 05-05-2023
 Dated: 13-04-2023

Tension Test Report (Page -1/1)

Date of Test 08-05-2023
 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	0.365	3/8	0.370	0.11	0.107	3400	4400	68200	69850	88200	90400	1.00	12.5	
2	0.364	3/8	0.369	0.11	0.107	4200	4900	84200	86540	98200	101000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Department of Civil Engineering
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To,

Project Manager
 Al-Imam PMC (Pvt) Ltd.
 Construction of New Telehouse Brick Room at Zong MSC Faisalabad

Reference # CED/TFL **3158** (Dr. Rizwan Azam)
 Reference of the request letter # ALM/CMPak/FSD/5-23

Dated: 05-05-2023
 Dated: 05-05-2023

Tension Test Report (Page -1/1)

Date of Test 08-05-2023
 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	0.373	3	0.373	0.11	0.110	3200	4900	64200	64400	98200	98700	1.50	18.8	Ittefaq Steel
2	0.372	3	0.373	0.11	0.109	3300	4800	66200	66480	96200	96700	1.30	16.3	
3	0.371	3	0.373	0.11	0.109	3300	4800	66200	66700	96200	97100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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
 Construction of Underpass at Ghulab Devi Hospital and Additional Lanes on Lahore Bridge.

Reference # CED/TFL **3161** (Dr. Rizwan Azam)
 Reference of the request letter # 3772/103/GD/RE/05/416

Dated: 05-05-2023
 Dated: 27-04-2023

Tension Test Report (Page -1/1)

Date of Test 08-05-2023
 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	4.180	10	1.251	1.27	1.229	48000	61000	83400	86100	105900	109500	1.30	16.3	Sheikho Steel
2	4.211	10	1.255	1.27	1.238	47000	60200	81600	83690	104500	107200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
NESPAK
Construction of Underpass at Ghulab Devi Hospital and Additional Lanes on Lahore
Bridge.
(WMI)

Reference # CED/TFL **3162** (Dr. Rizwan Azam)
Reference of the request letter # 3772/103/GD/RE/05/420

Dated: 05-05-2023
Dated: 03-05-2023

Tension Test Report (Page -1/2)

Date of Test 08-05-2023
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	776.0	17700	173.64	19500	191.30	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.

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To,

Resident Engineer
NESPAK
Construction of Underpass at Ghulab Devi Hospital and Additional Lanes on Lahore
Bridge.
(WMI)

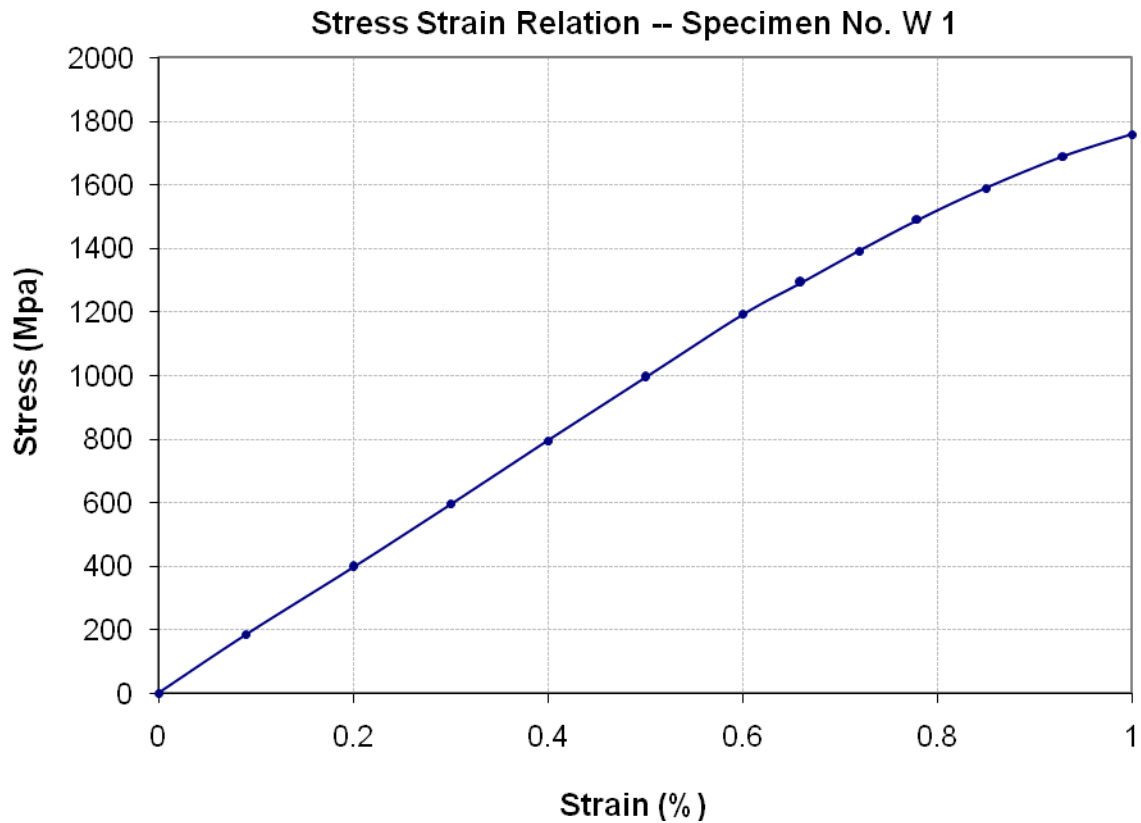
Reference # CED/TFL **3162** (Dr. Rizwan Azam)

Dated: 05-05-2023

Reference of the request letter # 3772/103/GD/RE/05/420

Dated: 03-05-2023

Graph (Page – 2/2)



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To,
 CEO
 Hamidiye Foundation
 GulbergIII, Lahore
 Construction of Plot No. 103D3, IEP Town, Lahore

Reference # CED/TFL **3165** (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 08-05-2023
 Dated: 08-05-2023

Tension Test Report (Page -1/1)

Date of Test 08-05-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.368	3	0.371	0.11	0.108	3200	4600	64200	65130	92200	93700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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