



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

To,
Sub Divisional Officer
Highway Sub Division Multan
(Construction of Flyover at Nadirabad Phatak to Industrial Estate, Multan Length = 2.65 km)

Reference # CED/TFL **1560** (Dr. M Rizwan Riaz)
Reference of the request letter # 1259/SD

Dated: 17-06-2022
Dated: 01-06-2022

Tension Test Report (Page -1/4)

Date of Test 24-06-2022
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 "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	780.0	17300	169.71	19600	192.28	199	>3.50	xx
2	12.70 (1/2")	775.0	779.0	17600	172.66	19600	192.28	199	>3.50	xx
3	12.70 (1/2")	775.0	779.0	17300	169.71	19500	191.30	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only three samples 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 Laboratories
UET Lahore, Pakistan.

Note:

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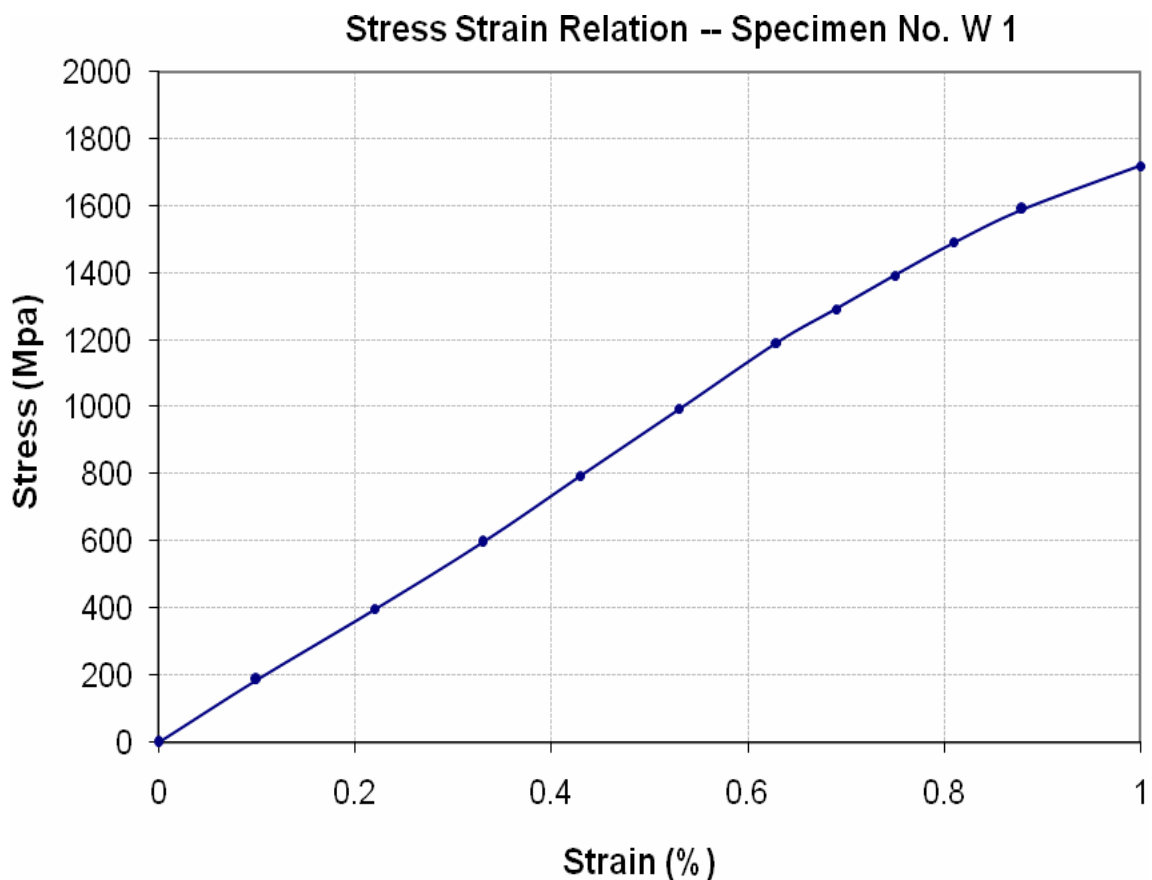
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Dated: 17-06-2022
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Graph (Page – 2/4)



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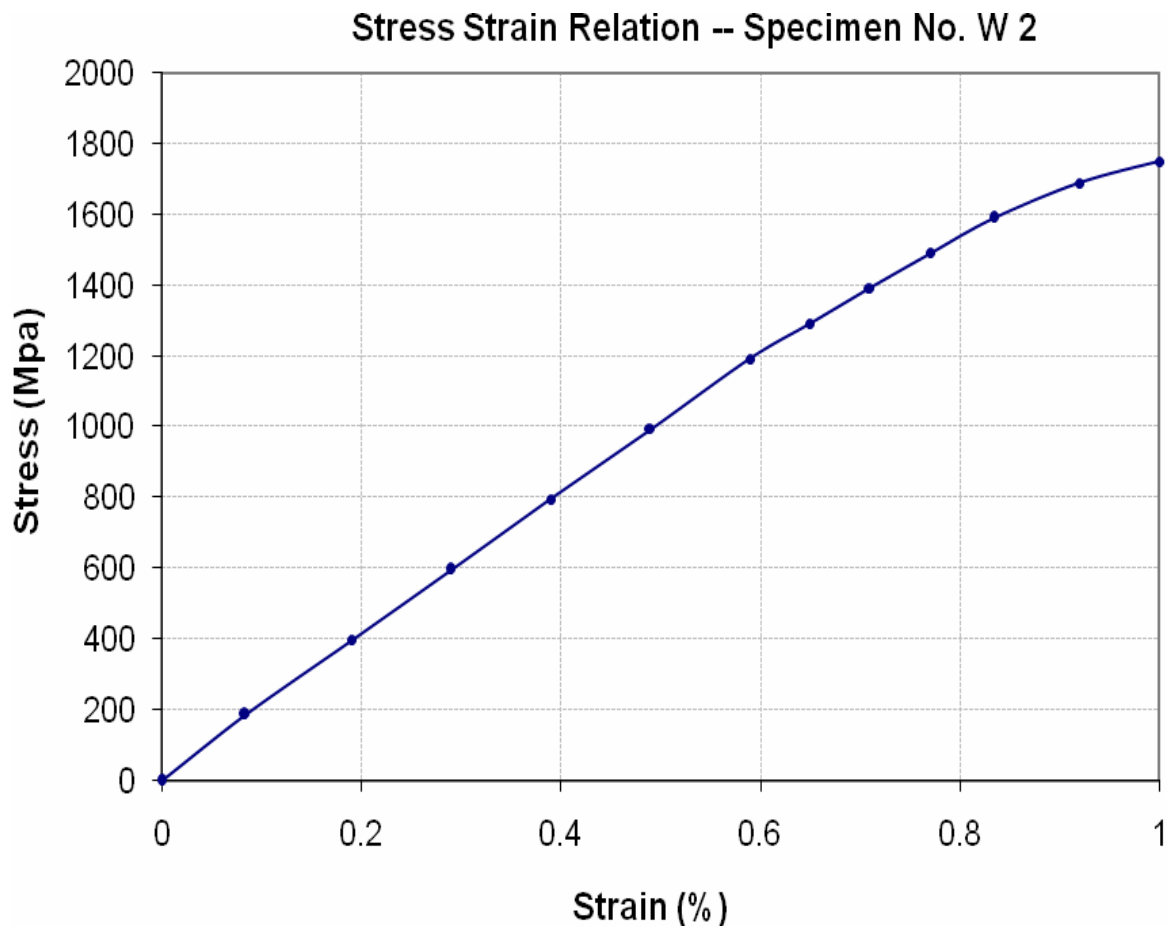
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Graph (Page – 3/4)



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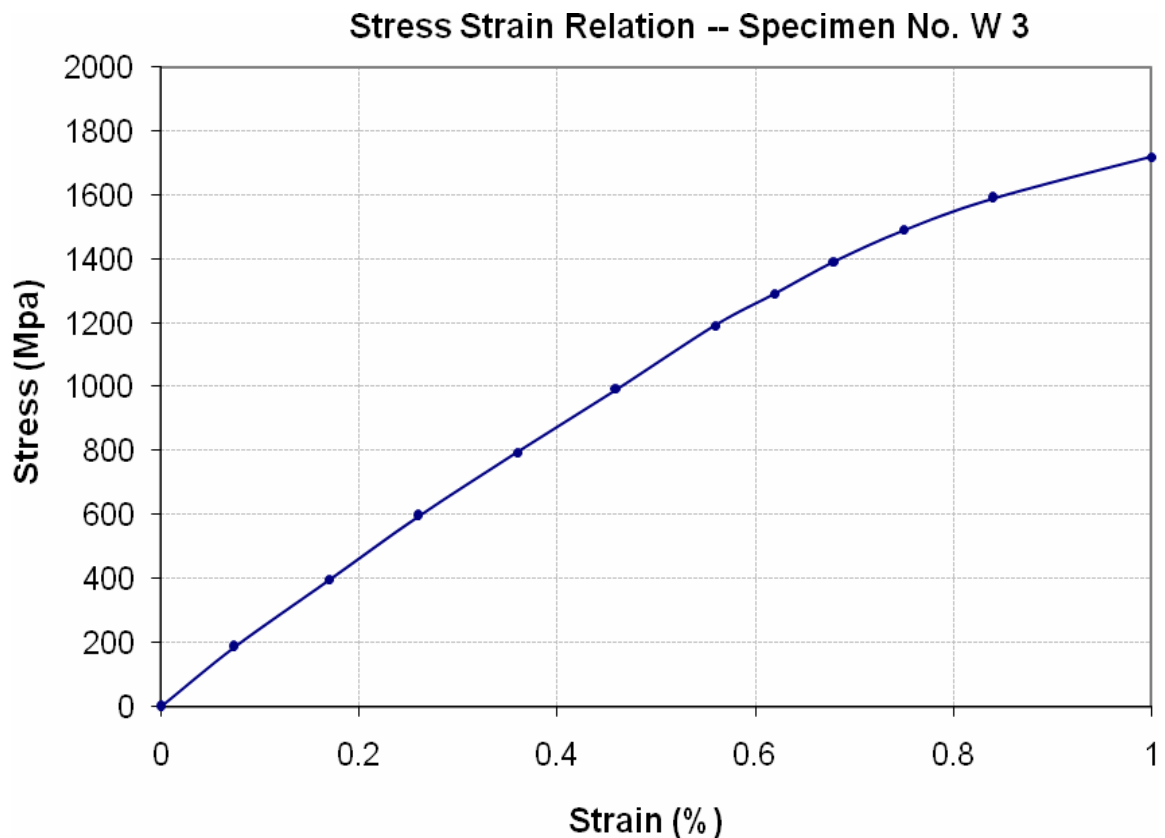
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Graph (Page – 4/4)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
Resident Engineer NESPAK
Annual Development Program of Highway Circle-I Rawalpindi
Dualization of Taxila to HMC Farooqia Road Length = 10.56 km Tehsil Taxila District
Rawalpindi (Group-I)

Reference # CED/TFL **1566** (Dr. M Rizwan Riaz)
Reference of the request letter # 4085/103/HMC/BIK/104/26

Dated: 20-06-2022
Dated: 17-06-2022

Tension Test Report (Page -1/4)

Date of Test 24-06-2022
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 "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	781.0	18200	178.54	19800	194.24	199	>3.50	xx
2	12.70 (1/2")	775.0	778.0	18000	176.58	19300	189.33	199	>3.50	xx
3	12.70 (1/2")	775.0	779.0	17900	175.60	19400	190.31	198	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Only three samples 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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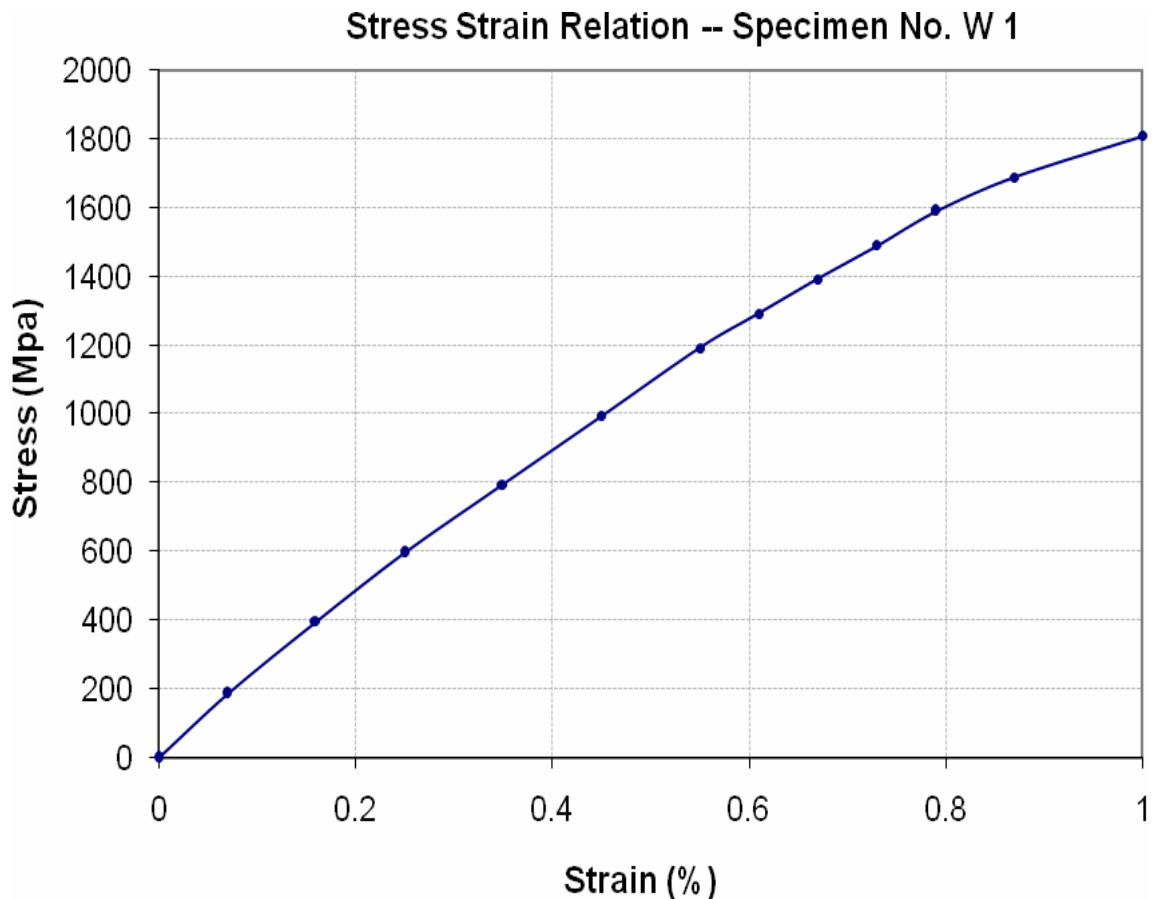
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Resident Engineer NESPAK
Annual Development Program of Highway Circle-I Rawalpindi
Dualization of Taxila to HMC Farooqia Road Length = 10.56 km Tehsil Taxila District
Rawalpindi (Group-I)

Reference # CED/TFL **1566** (Dr. M Rizwan Riaz)
Reference of the request letter # 4085/103/HMC/BIK/104/26

Dated: 20-06-2022
Dated: 17-06-2022

Graph (Page – 2/4)



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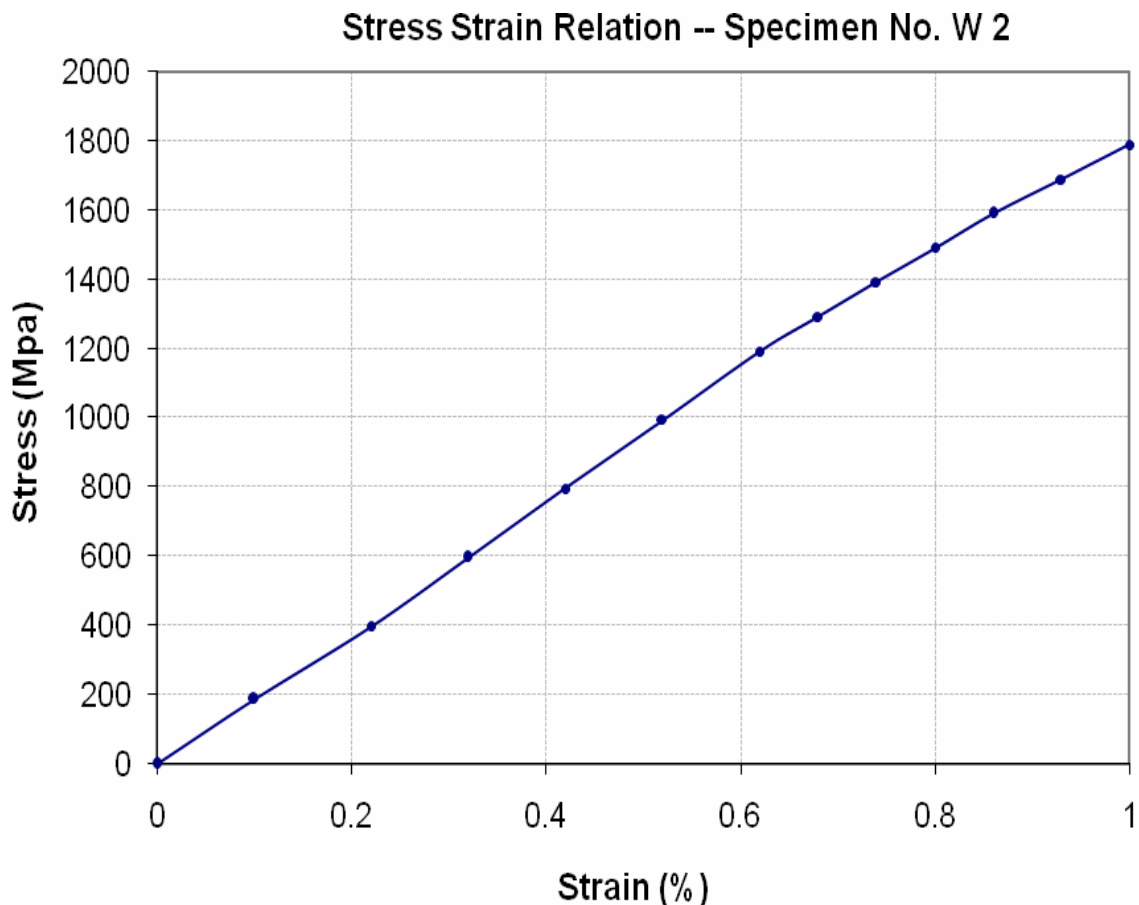
To,
Resident Engineer NESPAK
Annual Development Program of Highway Circle-I Rawalpindi
Dualization of Taxila to HMC Farooqia Road Length = 10.56 km Tehsil Taxila District
Rawalpindi (Group-I)

Reference # CED/TFL **1566** (Dr. M Rizwan Riaz)
Reference of the request letter # 4085/103/HMC/BIK/104/26

Dated: 20-06-2022

Dated: 17-06-2022

Graph (Page – 3/4)



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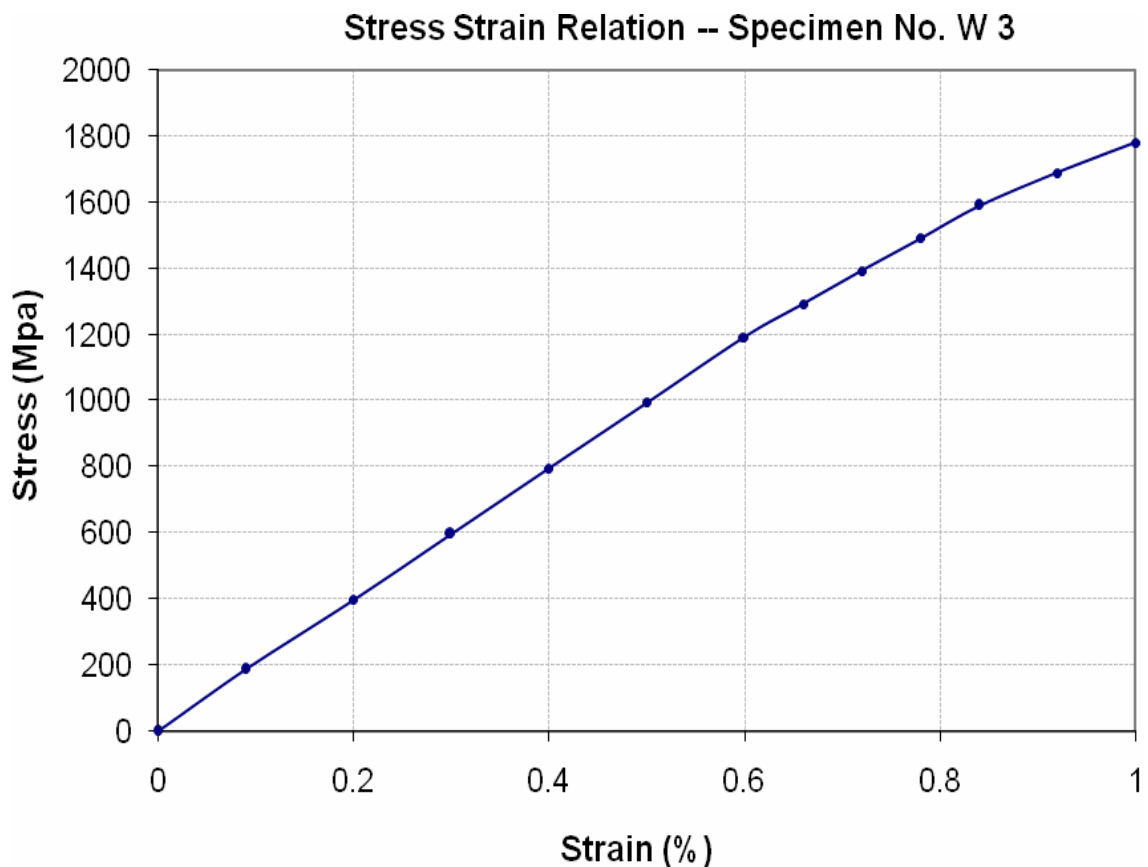
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Reference # CED/TFL **1566** (Dr. M Rizwan Riaz)
Reference of the request letter # 4085/103/HMC/BIK/104/26

Dated: 20-06-2022

Dated: 17-06-2022

Graph (Page – 4/4)



I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Ibrahim Nizami Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **1568** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 20-06-2022

Dated: 18-06-2022

Tension Test Report (Page – 1/2)

Date of Test 24-06-2022
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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	438.0	8500	83.39	9600	94.18	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/06/1480

Dated: 21-06-2022

Dated of Test: 24-06-2022

To

M/S Omega Developers
Lahore

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. Nil, dated 21.06.2022 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.81	7.29	16.14	12.40	1.87	7860	9800	2299	2866

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To,
Resident Engineer
NESPAK
Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in
District Gujrat

Reference # CED/TFL **1591** (Dr. M Rizwan Riaz)
Reference of the request letter # 103/GF/ML/Lab/06

Dated: 22-06-2022
Dated: 09-06-2022

Tension Test Report (Page -1/4)

Date of Test 24-06-2022
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 "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	778.0	17100	167.75	19400	190.31	198	>3.50	xx
2	12.70 (1/2")	775.0	779.0	17000	166.77	19300	189.33	199	>3.50	xx
3	12.70 (1/2")	775.0	778.0	17700	173.64	19400	190.31	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only three samples 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

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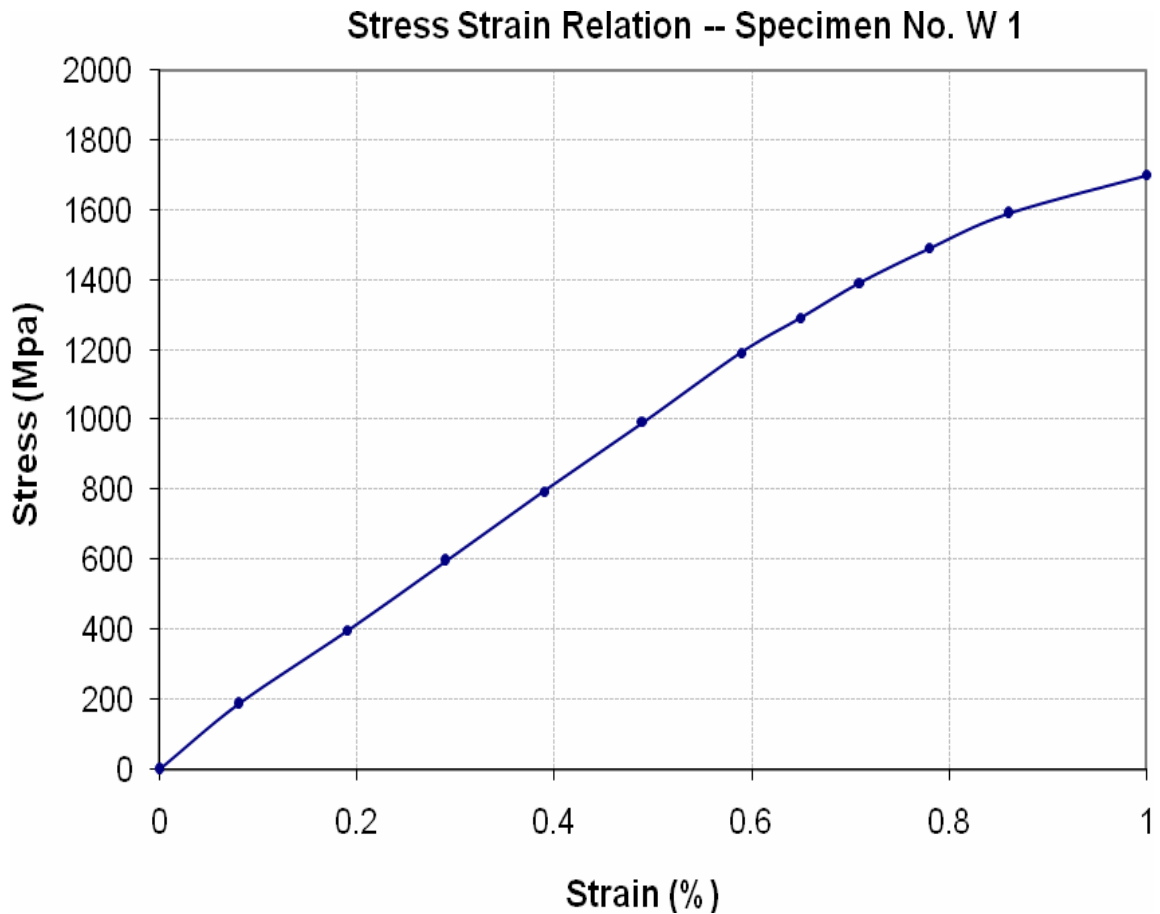
To,
Resident Engineer
NESPAK
Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in
District Gujrat

Reference # CED/TFL **1591** (Dr. M Rizwan Riaz)
Reference of the request letter # 103/GF/ML/Lab/06

Dated: 22-06-2022

Dated: 09-06-2022

Graph (Page – 2/4)



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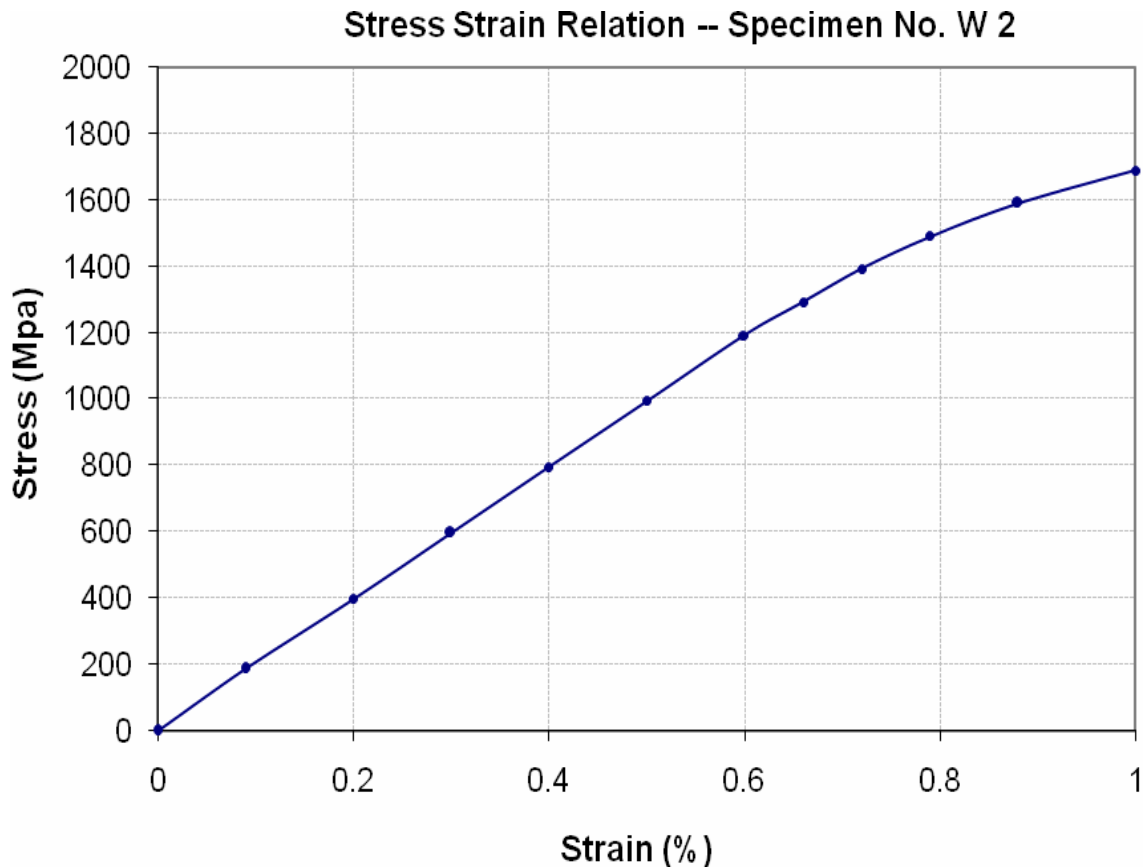
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Reference of the request letter # 103/GF/ML/Lab/06

Dated: 22-06-2022

Dated: 09-06-2022

Graph (Page – 3/4)



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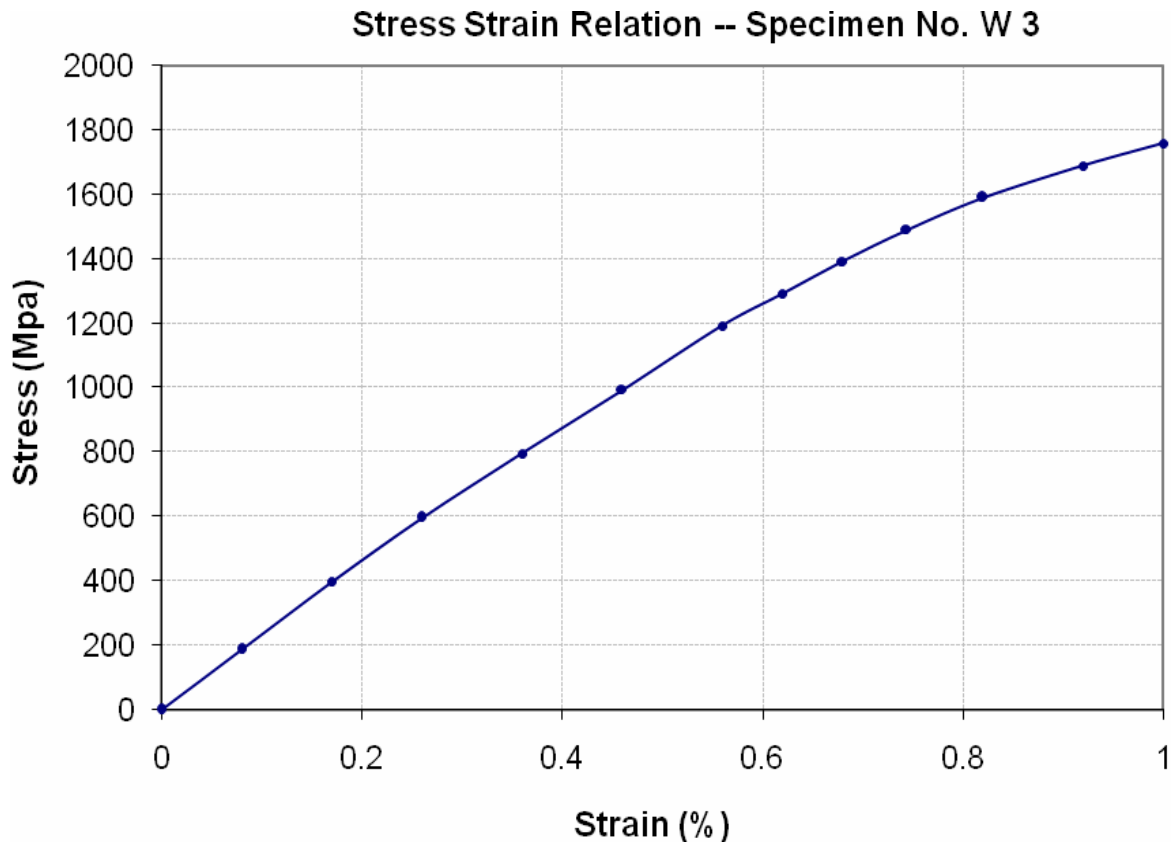
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Reference # CED/TFL **1591** (Dr. M Rizwan Riaz)
Reference of the request letter # 103/GF/ML/Lab/06

Dated: 22-06-2022

Dated: 09-06-2022

Graph (Page – 4/4)



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To,
 Site Inspector
 New Vision Engineering Consultant
 Construction of ACCN for College of Nursing at Kharian Cantt.

Reference # CED/TFL **1594** (Engr. Amina Rajput)
 Reference of the request letter # NVEC/HO/MES/2022/78A

Dated: 23-06-2022
 Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.367	3/8	0.371	0.11	0.108	4380	5170	87800	89490	103600	105700	0.90	11.3	
2	0.373	3/8	0.373	0.11	0.110	4510	5300	90400	90740	106200	106700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Assistant Executive Engineer-II
 CCD, Pak. PWD. Gujranwala
 (Enhancement & expansion of Building Infrastructure of NHMP Training College Sheikhpura,
 Phase-II)(SH: Establishment of Trainees Hostel)

Reference # CED/TFL **1595** (Engr. Amina Rajput) Dated: 23-06-2022
 Reference of the request letter # AEE-II/CCD/GA/Work/NHMP/P-ii/Lab/50 Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.371	3	0.372	0.11	0.109	3940	5170	79000	79740	103600	104700	0.80	10.0	Kisan Steel
2	0.368	3	0.371	0.11	0.108	4080	5250	81800	83180	105200	107100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Assistant Executive Engineer-II
 CCD, Pak. PWD. Gujranwala
 (Enhancement & expansion of Building Infrastructure of NHMP Training College Sheikhpura,
 Phase-II)(SH: Establishment of Library, Lab for E-Ticketing etc)

Reference # CED/TFL **1596** (Engr. Amina Rajput) Dated: 23-06-2022
 Reference of the request letter # AEE-II/CCD/GA/Work/NHMP/P-ii/Lab/52 Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3420	4760	68600	68880	95400	95900	1.00	12.5	FF Steel
2	0.366	3	0.370	0.11	0.108	3520	4740	70600	72080	95000	97100	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.

Note:

- 1- You can See your reports On Internet in the following web site
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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
 Abdul Qadir
 Lahore
 Site ID: 80-81 L Model Town, Lahore

Reference # CED/TFL **1597** (Engr. Amina Rajput)
 Reference of the request letter # Nil

Dated: 23-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.410	3	0.392	0.11	0.121	3570	5250	71600	65270	105200	96000	1.40	17.5	SJ Steel
2	0.375	3	0.375	0.11	0.110	3310	4760	66400	66200	95400	95200	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.

Note:

- 1- You can See your reports On Internet in the following web site
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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
 Resident Engineer
 Mascon Associates (Pvt) Ltd
 HA Consulting
 “Model Bazar Head Office Building”

Reference # CED/TFL **1598** (Engr. Amina Rajput)

Dated: 23-06-2022

Reference of the request letter # MAC-HAC/22/PMBMC/LT/005

Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022

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	0.366	3	0.370	0.11	0.108	3260	4400	65400	66830	88200	90200	1.40	17.5	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Construction Manager
 Zameen Quadrangle
 Construction of Zameen Quadrangle at Plot No. 49 Gulberg-V, Zafar Ali Road, Lahore

Reference # CED/TFL **1600** (Engr. Amina Rajput)
 Reference of the request letter # ZD/ZQ/GSW/025

Dated: 23-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.366	10	9.41	0.12	0.108	3590	4660	65954	73470	85612	95400	1.20	15.0	Kamran Steel
2	0.379	10	9.57	0.12	0.112	3420	4710	62831	67600	86531	93100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

Note:

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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,
 Planning and Coordination Engineer
 Muhammad Rammzan Construction
 Bopet Film Line (Novatex) Sheikhpura

Reference # CED/TFL **1601** (Engr. Amina Rajput)
 Reference of the request letter # MRC/P43-STEEL-03

Dated: 23-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.372	3	0.373	0.11	0.109	3490	4910	70000	70430	98400	99100	1.30	16.3	
2	0.375	3	0.375	0.11	0.110	3520	4960	70600	70400	99400	99200	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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 AXEN E&M
 GE (Air) Rafiqui
 (Rehabilitation of Aircraft Pen in Charlie Area (Site-I) at PAF Base Rafiqui)

Reference # CED/TFL **1602** (Engr. Amina Rajput)
 Reference of the request letter # 6567/43/E-6

Dated: 23-06-2022
 Dated: 13-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.377	3/8	0.376	0.11	0.111	3470	5170	69600	68980	103600	102800	1.00	12.5	
2	0.379	3/8	0.377	0.11	0.111	3490	5170	70000	69080	103600	102400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 1- You can See your reports On Internet in the following web site
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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,
 Sr. Manager / Project Manager
 MEP Solutions Pvt. Ltd.
 Dream Gardens Housing Scheme Wazirabad

Reference # CED/TFL **1603** (Engr. Amina Rajput)
 Reference of the request letter # Nil

Dated: 24-06-2022
 Dated: 24-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022
 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	0.365	3	0.369	0.11	0.107	3110	4810	62400	63970	96400	99000	1.00	12.5	
2	0.373	3	0.373	0.11	0.110	3230	4990	64800	65010	100000	100500	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.

Note:

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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,
 Project Manager
 MS Tower Developers
 Construction of MS Tower at Plot 450, 451 Johar Town Lahore

Reference # CED/TFL **1604** (Engr. Amina Rajput)

Dated: 24-06-2022

Reference of the request letter # MST/BCC/UET/2022/S-007

Dated: 24-06-2022

Tension Test Report (Page -1/1)

Date of Test 24-06-2022

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	3410	4840	68400	66260	97000	94100	1.20	15.0	SJ Steel
2	0.386	3	0.380	0.11	0.114	3430	4890	68800	66590	98000	95000	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.

Note:

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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,
M/S StarchPack (Private) Limited
Lahore
(StarchPack Greenfield Project Kasur)

Reference # CED/TFL **1605** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 24-06-2022
Dated: 24-06-2022

Tension Test Report (Page -1/2)

Date of Test 24-06-2022
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	0.416	10	10.03	0.12	0.122	4540	5580	83407	81780	102514	100600	1.20	15.0	
2	0.418	10	10.04	0.12	0.123	4330	5370	79549	77720	98656	96400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

Note:

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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,
M/S StarchPack (Private) Limited
Lahore
(StarchPack Greenfield Project Kasur)

Reference # CED/TFL **1605** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 24-06-2022
Dated: 24-06-2022

Tension Test Report (Page -2/2)

Date of Test 24-06-2022
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	4.269	32	32.11	1.25	1.255	41800	55000	73722	73420	97002	96600	1.50	18.8	
2	4.255	32	32.05	1.25	1.251	43000	54600	75838	75780	96297	96300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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