



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
Construction of Model Bazaar at Sheikhpura

Reference # CED/TFL **2663** (Dr. Rizwan Azam)
Reference of the request letter # MAS-HAC/22/SKP/521

Dated: 23-01-2023
Dated: 23-01-2023

Tension Test Report (Page – 1/1)

Date of Test 30-01-2023
Gauge length 2 inches
Description Plate Pernil Sheet Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Plate Pernil Sheet	2	28.00x2.00	56.00	1800	2300	315	403	0.60	30.00	
2		27.80x2.20	61.16	1800	2400	289	385	0.60	30.00		
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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 Potential Engineers (Pvt) Limited.
Lahore
(PCC Pole Plant Sadiqabad)

Reference # CED/TFL **2674** (Dr. Rizwan Azam)
Reference of the request letter # PCP/HTLT/SPUN/SDK/019

Dated: 24-01-2023
Dated: 24-01-2023

Tension Test Report (Page -1/3)

Date of Test 30-01-2023
Gauge length 8 inches
Description Plain Steel Bar 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	0.149	5	4.92	-----	19.0	-----	1600	-----	825	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Potential Engineers (Pvt) Limited.
Lahore
(PCC Pole Plant Sadiqabad)

Reference # CED/TFL **2674** (Dr. Rizwan Azam)
Reference of the request letter # PCP/HTLT/SPUN/SDK/020

Dated: 24-01-2023
Dated: 24-01-2023

Tension Test Report (Page -2/3)

Date of Test 30-01-2023
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	436.0	10500	103.01	11100	108.89	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/01/2674

Dated: 24-01-2023

Dated of Test: 30-01-2024

To

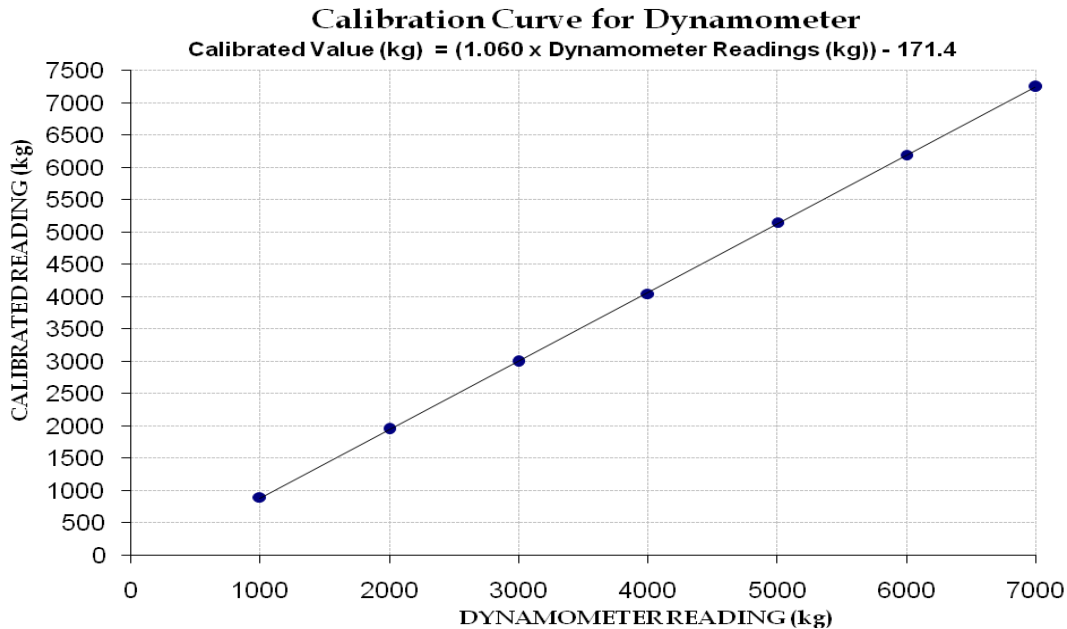
M/S Potential Engineers (Pvt) Limited.
Lahore
(PCC Pole Plant Sadiqabad)

Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/01/2674)** (Page -3/3)

Ref: Your letter No. PCP/HTLT/SPUN/SDK/036, dated: 24/01/2023 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (kg)
Calibrated Range : Zero - 7000 (kg)

Dynamometer Readings (kg)	1000	2000	3000	4000	5000	6000	7000
Calibrated Readings (kg)	900	1950	3000	4050	5150	6200	7250



I/C Testing Laboratoires
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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,

Resident Engineer
NESPAK

Flyover at N-05 on G.T Road (Samma) to Gujrat Dinga Road (km no. 02) & Flyover at
GT Road Kathala Railway Crossing District Gujrat (km. 01)

Reference # CED/TFL **2676** (Dr. Ali Ahmed)

Dated: 24-01-2023

Reference of the request letter # 4364/08/CRM/14/01/2023/33

Dated: 23-01-2023

Tension Test Report (Page -1/4)

Date of Test 30-01-2023

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	783.0	17500	171.68	19400	190.31	199	>3.50	xx
2	12.70 (1/2")	775.0	785.0	17500	171.68	19400	190.31	198	>3.50	xx
3	12.70 (1/2")	775.0	786.0	17500	171.68	19200	188.35	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 Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
NESPAK

Flyover at N-05 on G.T Road (Samma) to Gujrat Dinga Road (km no. 02) & Flyover at
GT Road Kathala Railway Crossing District Gujrat (km. 01)

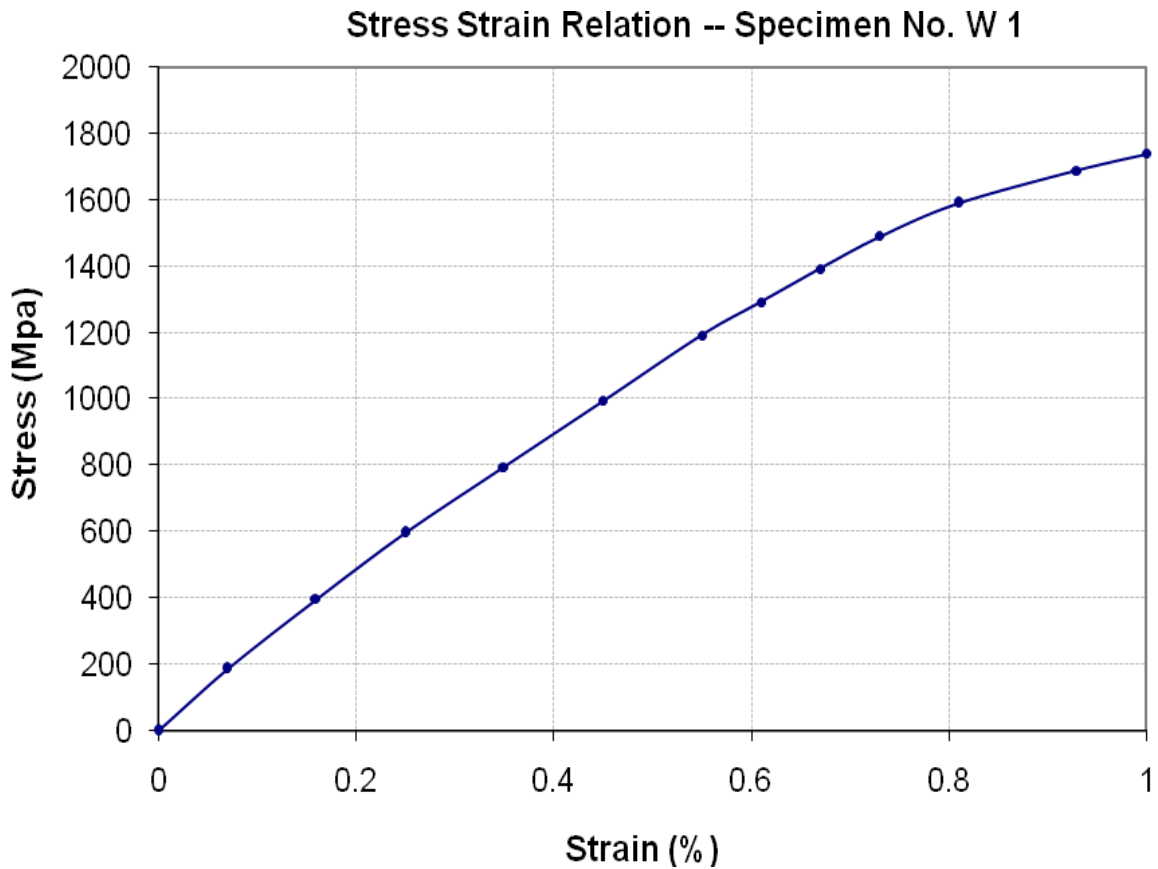
Reference # CED/TFL **2676** (Dr. Ali Ahmed)

Dated: 24-01-2023

Reference of the request letter # 4364/08/CRM/14/01/2023/33

Dated: 23-01-2023

Graph (Page – 2/4)



I/C Testing Laboratoires
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To,

Resident Engineer
NESPAK

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GT Road Kathala Railway Crossing District Gujrat (km. 01)

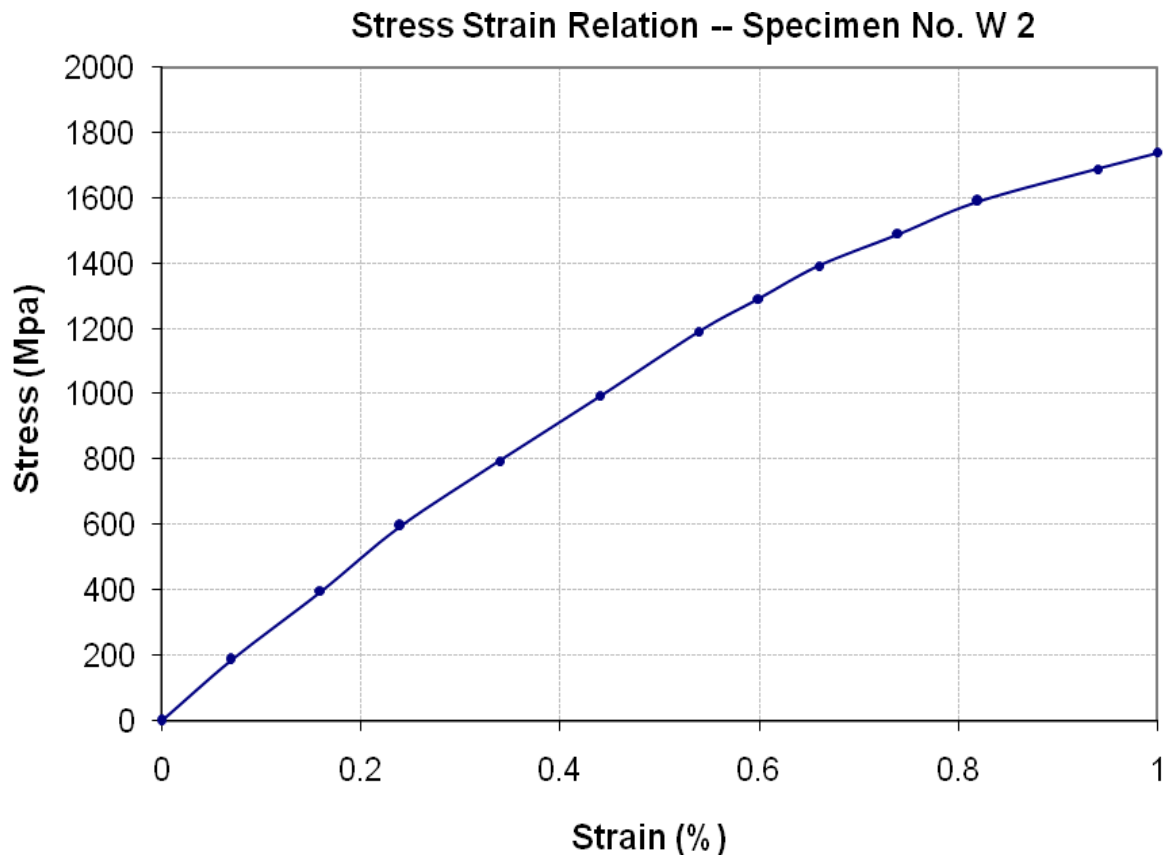
Reference # CED/TFL **2676** (Dr. Ali Ahmed)

Dated: 24-01-2023

Reference of the request letter # 4364/08/CRM/14/01/2023/33

Dated: 23-01-2023

Graph (Page – 3/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,

Resident Engineer
NESPAK

Flyover at N-05 on G.T Road (Samma) to Gujrat Dinga Road (km no. 02) & Flyover at
GT Road Kathala Railway Crossing District Gujrat (km. 01)

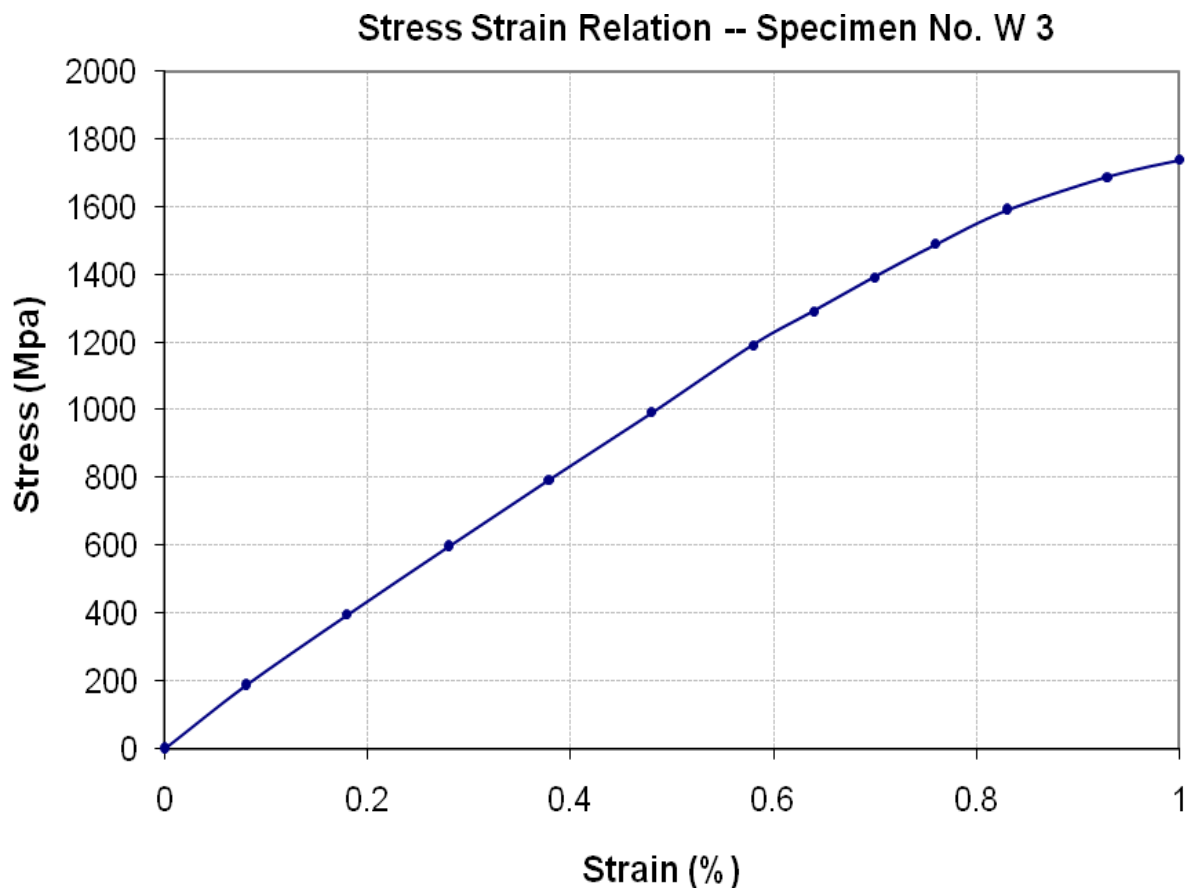
Reference # CED/TFL **2676** (Dr. Ali Ahmed)

Dated: 24-01-2023

Reference of the request letter # 4364/08/CRM/14/01/2023/33

Dated: 23-01-2023

Graph (Page – 4/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,

Resident Engineer
NESPAK
Bridge Over U.J.C. Canal & Bhimber Nullah on Gujrat Bypass (N-5) – Industrial Area-II
District Gujrat

Reference # CED/TFL **2678** (Dr. Ali Ahmed)
Reference of the request letter # 103/GF/ML/Lab/02

Dated: 24-01-2023
Dated: 24-01-2023

Tension Test Report (Page -1/4)

Date of Test 30-01-2023
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	786.0	17400	170.69	19400	190.31	198	>3.50	xx
2	12.70 (1/2")	775.0	782.0	17100	167.75	19300	189.33	199	>3.50	xx
3	12.70 (1/2")	775.0	785.0	17600	172.66	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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK

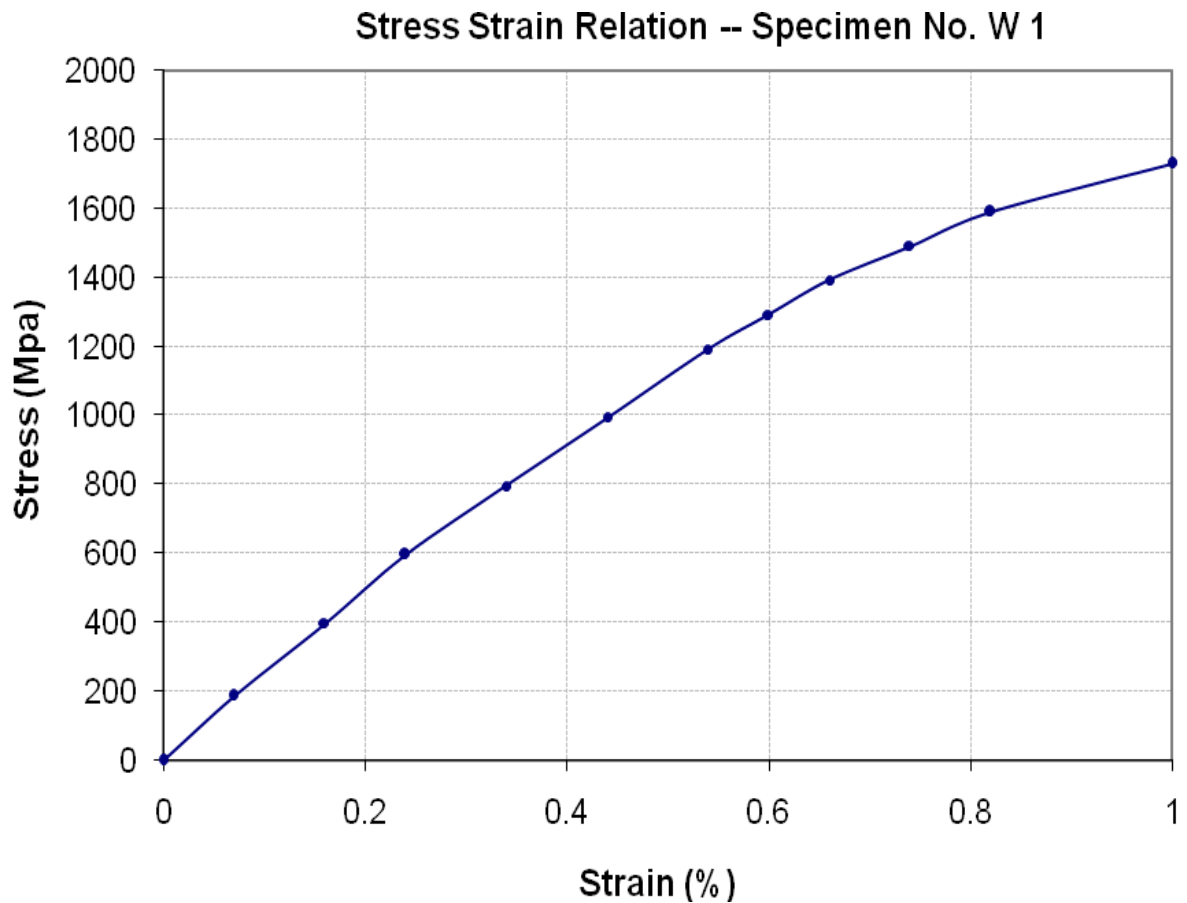
Bridge Over U.J.C. Canal & Bhimber Nullah on Gujrat Bypass (N-5) – Industrial Area-II
District Gujrat

Reference # CED/TFL **2678** (Dr. Ali Ahmed)
Reference of the request letter # 103/GF/ML/Lab/02

Dated: 24-01-2023

Dated: 24-01-2023

Graph (Page – 2/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,

Resident Engineer
NESPAK

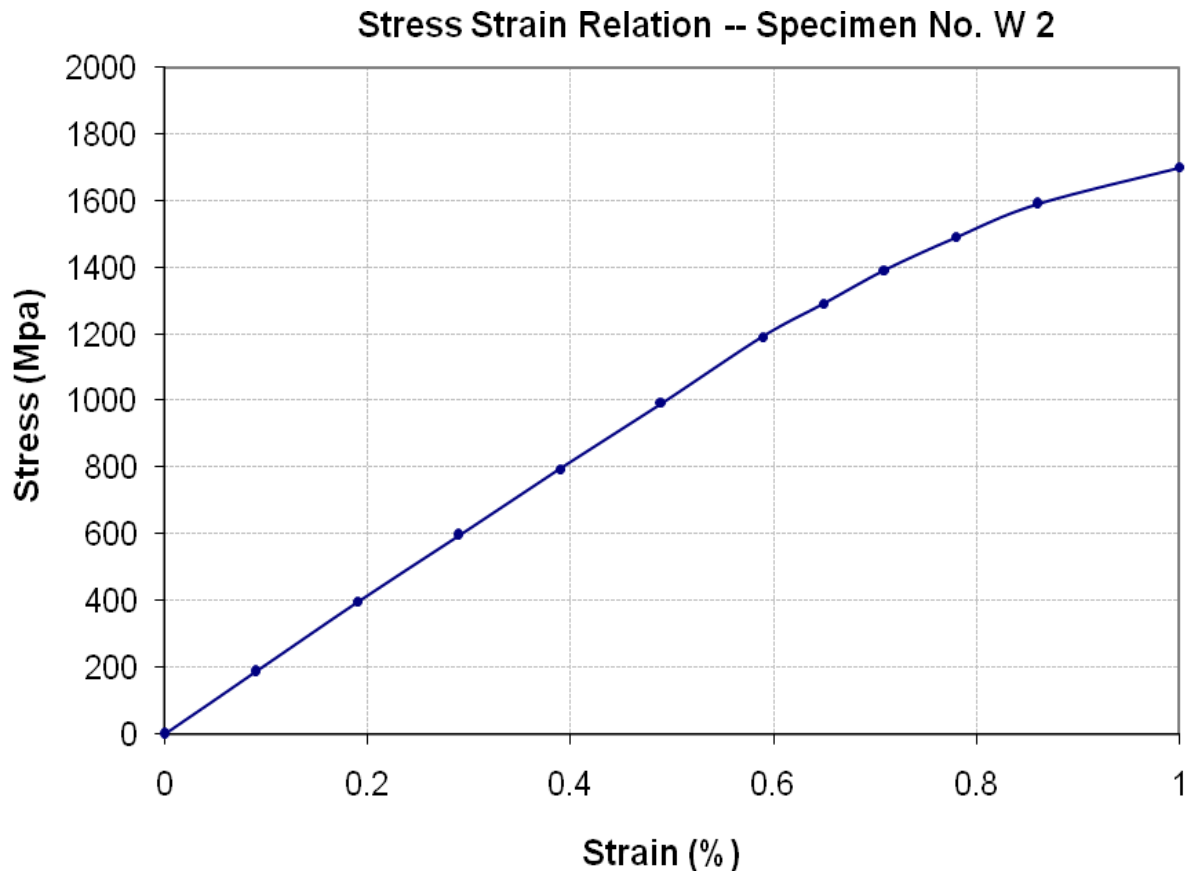
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District Gujrat

Reference # CED/TFL **2678** (Dr. Ali Ahmed)
Reference of the request letter # 103/GF/ML/Lab/02

Dated: 24-01-2023

Dated: 24-01-2023

Graph (Page – 3/4)



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UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,

Resident Engineer
NESPAK

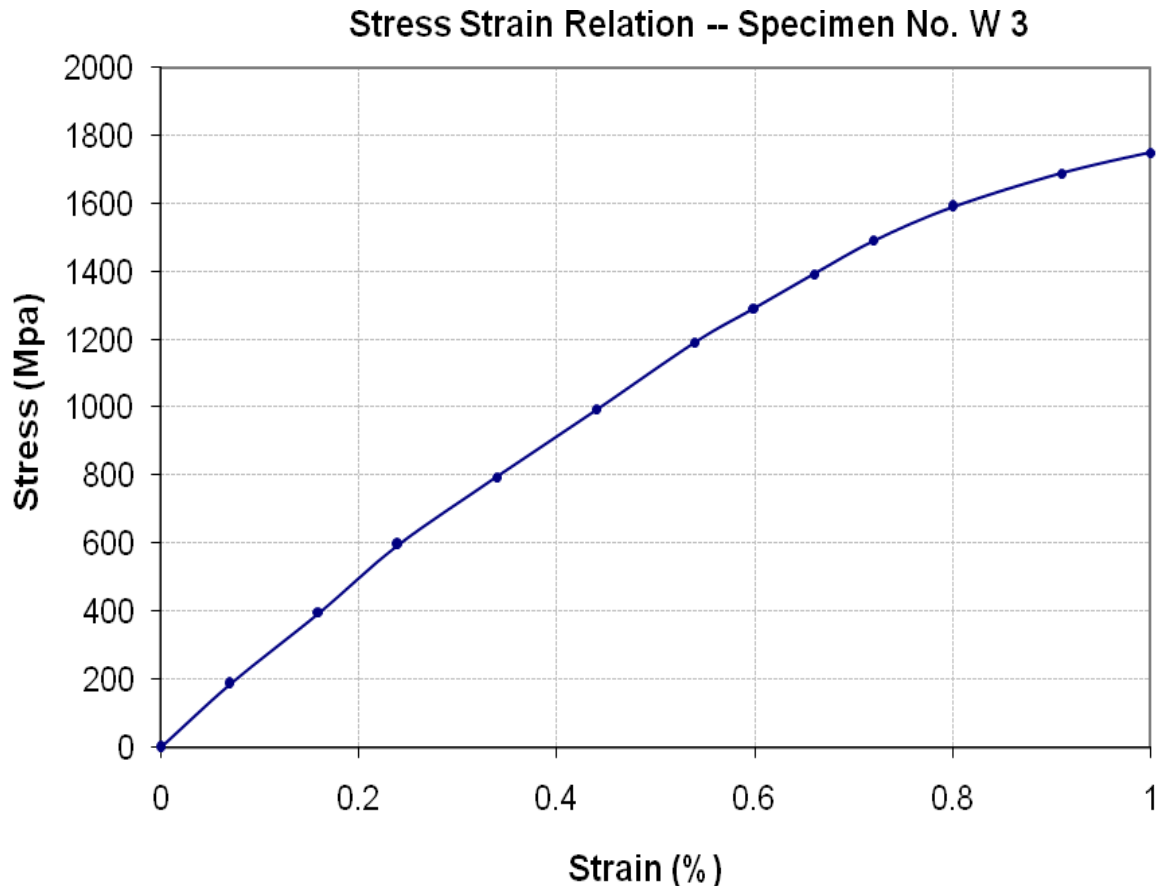
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District Gujrat

Reference # CED/TFL **2678** (Dr. Ali Ahmed)
Reference of the request letter # 103/GF/ML/Lab/02

Dated: 24-01-2023

Dated: 24-01-2023

Graph (Page – 4/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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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,

Resident Engineer
 NESPAK
 Construction Supervision of Mosque & Main Gate for GEPCO Employees Housing
 Foundation (GEHF Town Phase-1), Gujranwala.

Reference # CED/TFL **2688** (Dr. Rizwan Azam)
 Reference of the request letter # P4265/22/MA/169

Dated: 26-01-2023
 Dated: 12-01-2023

Tension Test Report (Page -1/1)

Date of Test 30-01-2023
 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	0.360	3	0.367	0.11	0.106	3500	5400	70200	72970	108200	112600	1.10	13.8	Mehboob Steel
2	0.400	3	0.387	0.11	0.118	3900	5800	78200	73120	116300	108800	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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Engineering Service Co.
Lahore

Reference # CED/TFL **2690** (Dr. Rizwan Azam)
Reference of the request letter # ESC/UET/LT

Dated: 26-01-2023

Dated: 26-01-2023

Tension Test Report (Page – 1/1)

Date of Test 30-01-2023
Gauge length 50 mm
Description GI Wire Tensile Test

Sr. No.	Diameter / size	Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Marks
	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(mm)		
1	3.60	10.18	-----	600	-----	578	1.60	20.00	
Only One Sample for Tensile Test									

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,

G.M – Commercial
Mughals Pakistan (Private) Limited
Construction of Furniture Showroom - Lakhodair.)

Reference # CED/TFL **2691** (Dr. Rizwan Azam)
Reference of the request letter # 786/MPL/260102/2023

Dated: 26-01-2023
Dated: 26-01-2023

Tension Test Report (Page -1/1)

Date of Test 30-01-2023
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	0.391	3	0.383	0.11	0.115	3300	4800	66200	63290	96200	92100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Asst: Executive Engineer - I
 Central Civil Division-1
 Pak. PWD; Lahore
 (Construction of New Ayesha Hostel at PAS Campus at Civil Services Academy,
 Lahore.)

Reference # CED/TFL **2694** (Dr. Rizwan Azam)

Dated: 27-01-2023

Reference of the request letter # AEE-I/CCD-I/LHR/229-E

Dated: 28-04-2022

Tension Test Report (Page -1/1)

Date of Test 30-01-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3/8	0.372	0.11	0.109	3400	5000	68200	68830	100200	101300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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2. The above results pertain to sample /samples supplied to this laboratory.
- 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,

M/S Beacon Impex
 Construction of Effluent Treatment Plant at Beacon Impex
 34 – km Sheikhpura Road, Faisalabad
 (M/s M. Saleem Construction Company)

Reference # CED/TFL **2697** (Dr. Rizwan Azam)
 Reference of the request letter # B.1/CIVIL/23-2

Dated: 27-01-2023
 Dated: 25-01-2023

Tension Test Report (Page -1/1)

Date of Test 30-01-2023
 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	0.370	3	0.372	0.11	0.109	3800	4900	76200	77010	98200	99300	0.90	11.3	Kisan Steel
2	0.369	3	0.372	0.11	0.109	3700	4800	74200	75110	96200	97500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 NESPAK
 Construction of LDA City Naya Pakistan Apartments, Lahore. Part-I & IV.

Reference # CED/TFL **2698** (Dr. Rizwan Azam)
 Reference of the request letter # 4047/13/WM/09-1-IV/33

Dated: 27-01-2023
 Dated: 26-01-2023

Tension Test Report (Page -1/1)

Date of Test 30-01-2023
 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	0.389	3	0.382	0.11	0.114	4000	5400	80200	77050	108200	104100	1.00	12.5	AF Steel
2	0.390	3	0.382	0.11	0.115	4000	5400	80200	76920	108200	103900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Steel Complex (Pvt) Limited.
Lahore

Reference # CED/TFL **2700** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 30-01-2023

Dated: 30-01-2023

Tension Test Report (Page – 1/1)

Date of Test 30-01-2023

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	447.0	8800	86.33	11100	108.89	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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