



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

Ref: CED/TFL/12/37558, 565
2021

Dated: 21-12-

Dated of Test: 24-12-2021

To
Executive Engineer
Road Construction Division
Gujranwala
(Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwer via Hafizabad Section No. 1 km no. 6.20 to km no. 23.20 L= 17 km in District Gujranwala)

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

Reference to your letter No. 1064/G-1, dated 20.12.2021 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	36	8.03	7.65	44.02	36.12	3.95	16590	25330	1587	2424

Witness by Manohar Lal (Chief Engineer NESPAK) & Junaid Akram (SDO Highway Division 1, Gujranwala)

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,
Resident Engineer
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad
(United Wire Industries (Pvt) Limited)

Reference # CED/TFL **37569** (Dr. Waseem Abbass)
Reference of the request letter # 4250/STNBP/RE/KU/229

Dated: 22-12-2021
Dated: 05-11-2021

Tension Test Report (Page -1/2)

Date of Test 24-12-2021
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	784.0	17900	175.60	19600	192.28	199	>3.50	23006
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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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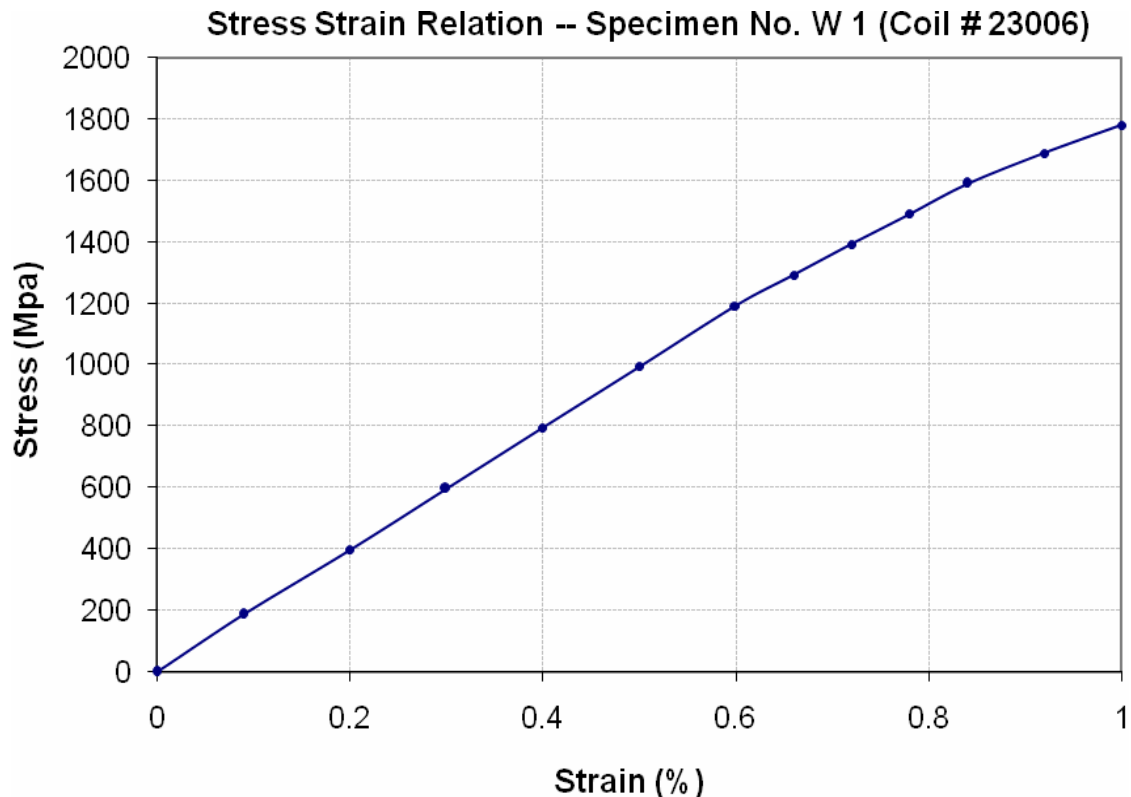
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Shatial – Thor Nullah Bypass (Relocation of KKH) Including Link Road to
Existing KKH (WMI)

Reference # CED/TFL **37569** (Dr. Waseem Abbass)
Reference of the request letter # 4250/STNBP/RE/KU/229

Dated: 22-12-2021
Dated: 05-11-2021

Graph (Page – 2/2)



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 – I
NESPAK
Construction of Sheranwala Flyover, Lahore

Reference # CED/TFL **37578** (Dr. Usman Akmal)
Reference of the request letter # 3772/SF/103/MWA/04/206

Dated: 23-12-2021
Dated: 22-12-2021

Tension Test Report (Page -1/2)

Date of Test 24-12-2021
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	775.0	17400	170.69	19500	191.30	199	>3.50	23132
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only one sample for Test										

Witness by Farooq-e-Azam (NESPAK) & Engr. Ishtiaq (M.E HCS)

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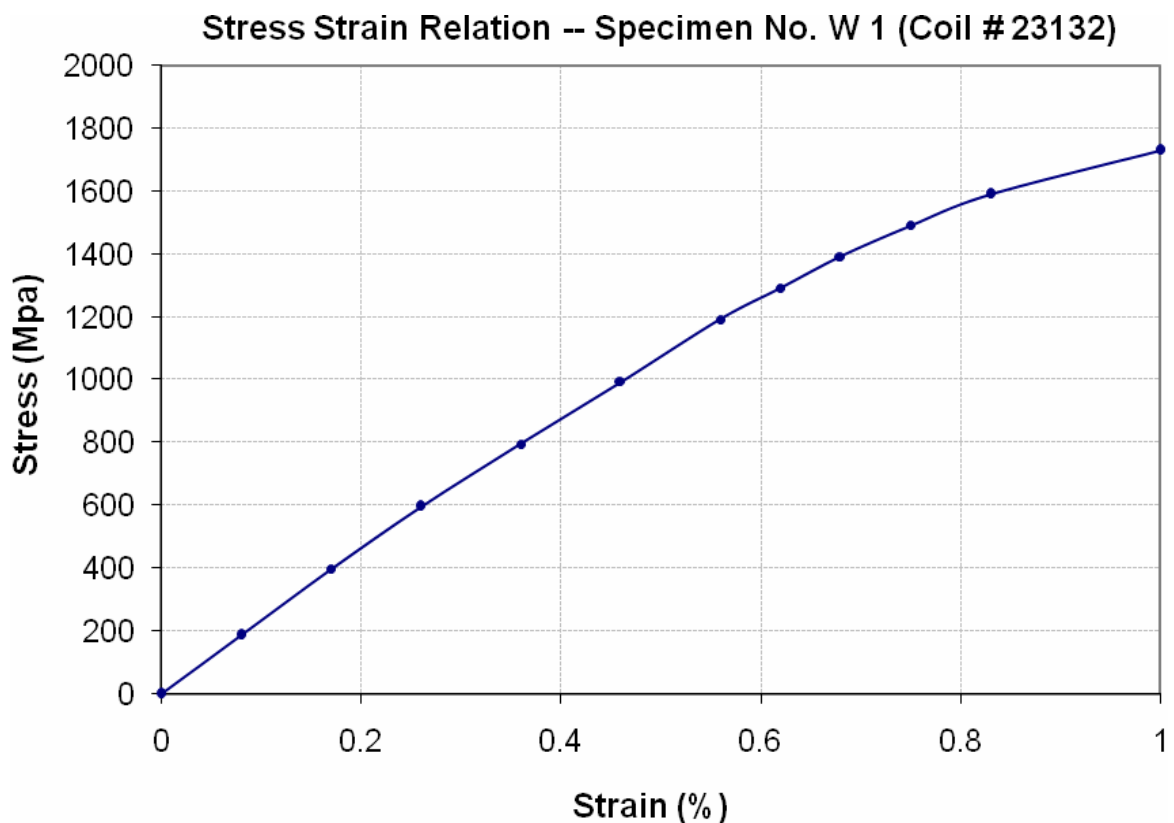
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer – I
NESPAK
Construction of Sheranwala Flyover, Lahore

Reference # CED/TFL **37578** (Dr. Usman Akmal)
Reference of the request letter # 3772/SF/103/MWA/04/206

Dated: 23-12-2021
Dated: 22-12-2021

Graph (Page – 2/2)



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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,
 Sub Divisional Officer
 Building Sub Division
 Hafizabad
 (Establishment of Govt. Associate College for Girls, Kaliki Mandi, Hafizabad)

Reference # CED/TFL **37579** (Dr. Usman Akmal)
 Reference of the request letter # 741/HZ

Dated: 23-12-2021
 Dated: 27-11-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.373	3/8	0.374	0.11	0.110	3300	4600	66200	66290	92200	92400	1.20	15.0	
2	0.371	3/8	0.372	0.11	0.109	3300	4600	66200	66770	92200	93100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
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,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Construction of Store Shed at Regional Distribution Office Lahore)

Reference # CED/TFL **37580** (Dr. Usman Akmal)
Reference of the request letter # CC/S.Shed/Lhr/01

Dated: 23-12-2021
Dated: 22-12-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
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	0.372	3/8	0.373	0.11	0.109	3600	5000	72200	72590	100200	100900	1.10	13.8	
2	0.369	3/8	0.372	0.11	0.109	3600	5000	72200	73070	100200	101500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one samples 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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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 PAF Falcon Complex
Gulberg III, Lahore
(BBC)

Reference # CED/TFL **37582** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 23-12-2021
Dated: 23-12-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
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	0.370	3/8	0.372	0.11	0.109	3800	5600	76200	76980	112300	113500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Executive Engineer
 Assistant Garrison Engineer (Army)
 Pattoki
 (Construction of Over Head Water Tank with Tube Well at AAD Pattoki)

Reference # CED/TFL **37585** (Dr. Usman Akmal)
 Reference of the request letter # 600-TR/19/E6

Dated: 23-12-2021
 Dated: 06-12-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.347	3/8	0.360	0.11	0.102	3200	4800	64200	69180	96200	103800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad
(United Wire Industries (Pvt) Limited)

Reference # CED/TFL **37586** (Dr. Waseem Abbass)
Reference of the request letter # 7thAve/Lab-01/001/028

Dated: 23-12-2021

Dated: 23-12-2021

Tension Test Report (Page -1/4)

Date of Test 24-12-2021
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	772	17500	171.68	19400	190.31	199	>3.50	xx
2	12.70 (1/2")	775.0	772	17500	171.68	19500	191.30	198	>3.50	xx
3	12.70 (1/2")	775.0	776	17400	170.69	19700	193.26	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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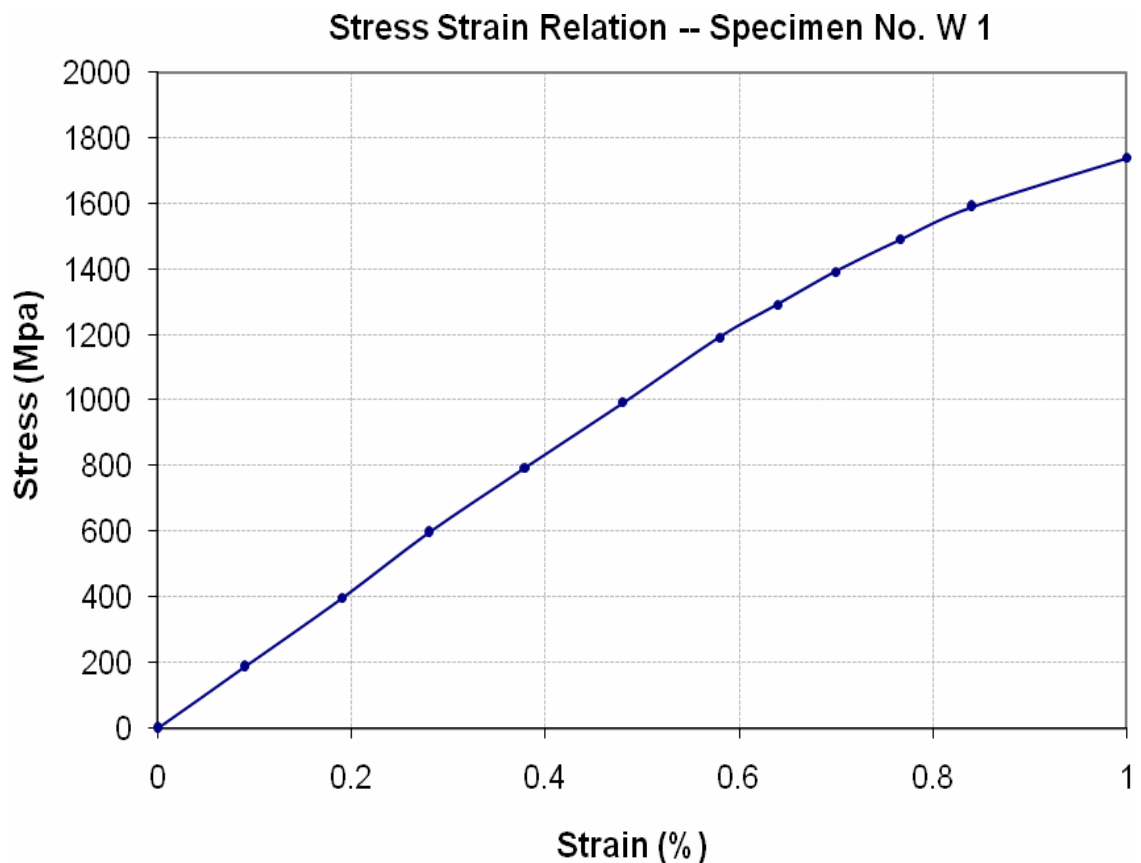
To,
Resident Engineer
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad
(United Wire Industries (Pvt) Limited)

Reference # CED/TFL **37586** (Dr. Waseem Abbass)
Reference of the request letter # 7thAve/Lab-01/001/028

Dated: 23-12-2021

Dated: 23-12-2021

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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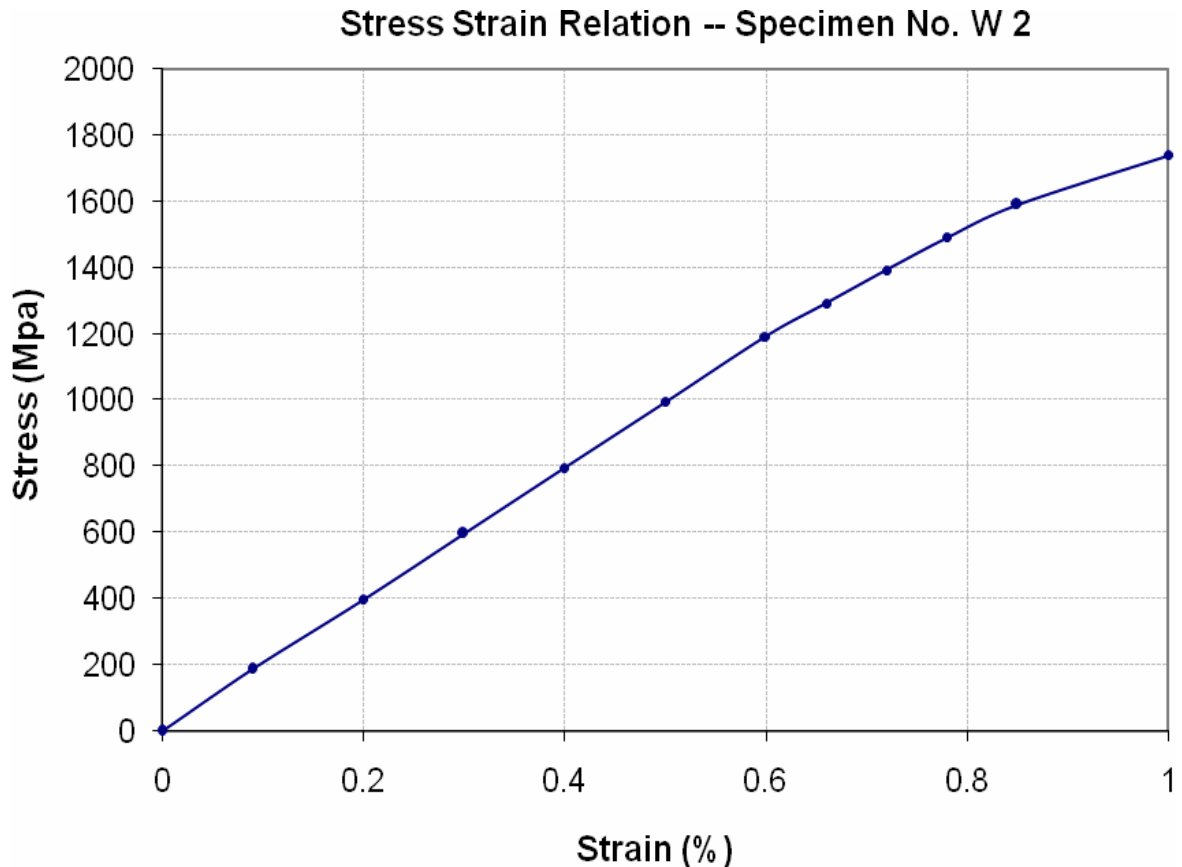
To,
Resident Engineer
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad
(United Wire Industries (Pvt) Limited)

Reference # CED/TFL **37586** (Dr. Waseem Abbass)
Reference of the request letter # 7thAve/Lab-01/001/028

Dated: 23-12-2021

Dated: 23-12-2021

Graph (Page – 3/4)



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UET Lahore, Pakistan.

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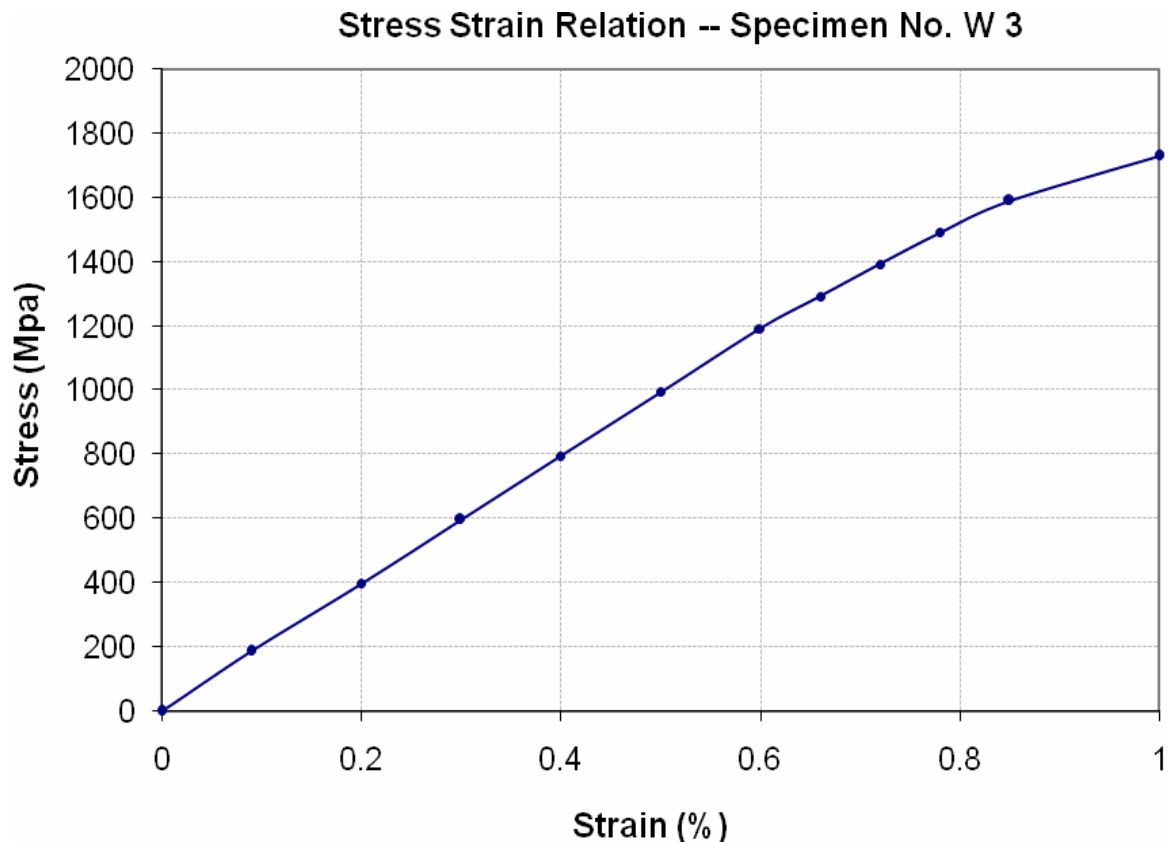
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To,
Resident Engineer
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad
(United Wire Industries (Pvt) Limited)

Reference # CED/TFL **37586** (Dr. Waseem Abbass)
Reference of the request letter # 7thAve/Lab-01/001/028

Dated: 23-12-2021
Dated: 23-12-2021

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
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To,
 Project Manager
 State Grid
 Design, Supply, Installation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar
 S/S – Lahore North S/S- Lahore HVDC Switching / Converter Station
 (Kamran Steel (Sharqpur Warehouse)
 Reference # CED/TFL **37587** (Dr. Asad Ali) Dated: 23-12-2021
 Reference of the request letter # CET/ADB-301A//SEC-II/UET-21-229 Dated: 23-12-2021

Tension Test Report (Page -1/2)

Date of Test 24-12-2021
 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	0.364	3	0.369	0.11	0.107	3410	4710	68400	70250	94400	97100	1.20	15.0	
2	0.364	3	0.369	0.11	0.107	3360	4760	67400	69230	95400	98100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Umair Khalid (NESPAK)

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Project Manager
 State Grid
 Design, Supply, Installation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar
 S/S – Lahore North S/S- Lahore HVDC Switching / Converter Station
 (Kamran Steel (Noshehra Virka Warehouse)
 Reference # CED/TFL **37587** (Dr. Asad Ali) Dated: 23-12-2021
 Reference of the request letter # CET/ADB-301A//SEC-I/UET-21-228 Dated: 23-12-2021

Tension Test Report (Page -2/2)

Date of Test 24-12-2021
 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	0.412	3	0.393	0.11	0.121	4080	5710	81800	74280	114500	104000	1.10	13.8	
2	0.413	3	0.393	0.11	0.121	4180	5710	83800	75840	114500	103600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Umair Khalid (NESPAK)

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum at Plot No. 15 Block L, Gulberg-III, Main Feroze Pur Road,
 Lahore
 Reference # CED/TFL **37588** (Dr. Rashid Hameed) Dated: 23-12-2021
 Reference of the request letter # ZD/ZA/STR019 Dated: 23-12-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
 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	4.378	10	1.280	1.27	1.287	39000	54600	67700	66810	94800	93600	1.20	15.0	SJ Steel
2	4.381	10	1.280	1.27	1.288	38600	55200	67000	66070	95800	94500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Officer Construction N - I
 Engineer Cell
 Allied Bank Limited
 Construction of B/O Khurianwala Jaranwala Road Faisalabad

Reference # CED/TFL **37589** (Dr. Usman Akmal)
 Reference of the request letter # GSRE-21/CON/N1/AI/2000

Dated: 24-12-2021
 Dated: 24-12-2021

Tension Test Report (Page -1/1)

Date of Test 24-12-2021
 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	0.380	3	0.377	0.11	0.112	3640	5200	73000	71920	104200	102800	1.20	15.0	Kamran Steel
2	0.409	3	0.391	0.11	0.120	4150	5610	83200	76020	112500	102800	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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