



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
CCECC-MATRACON-HABIB Joint Venture
Re-Construction of & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
Airport (AIIAP), Lahore
(S.J steel Mill (AS Steel Group) Lahore)
Reference # CED/TFL **36717** (Dr. Ali Ahmed) Dated: 08-07-2021
Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/486
Dated: 06-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
Gauge length 8 inches
Description Plain Steel Dowel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	38.00	1134.115	41800	66200	361.57	572.62	1.60	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

I/C Testing Laboratories
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
NESPAK
Dualization & Improvement of Old Banu Road / Khurram Road Project (P – 02)
(WMI)

Reference # CED/TFL **36721** (Dr. Ali Ahmed)
Reference of the request letter # OBR/KKP-02/RE/AHJ/614

Dated: 09-07-2021
Dated: 04-07-2021

Tension Test Report (Page -1/2)

Date of Test 14-07-2021
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	782.0	18100	177.56	19700	193.26	199	>3.50	22717
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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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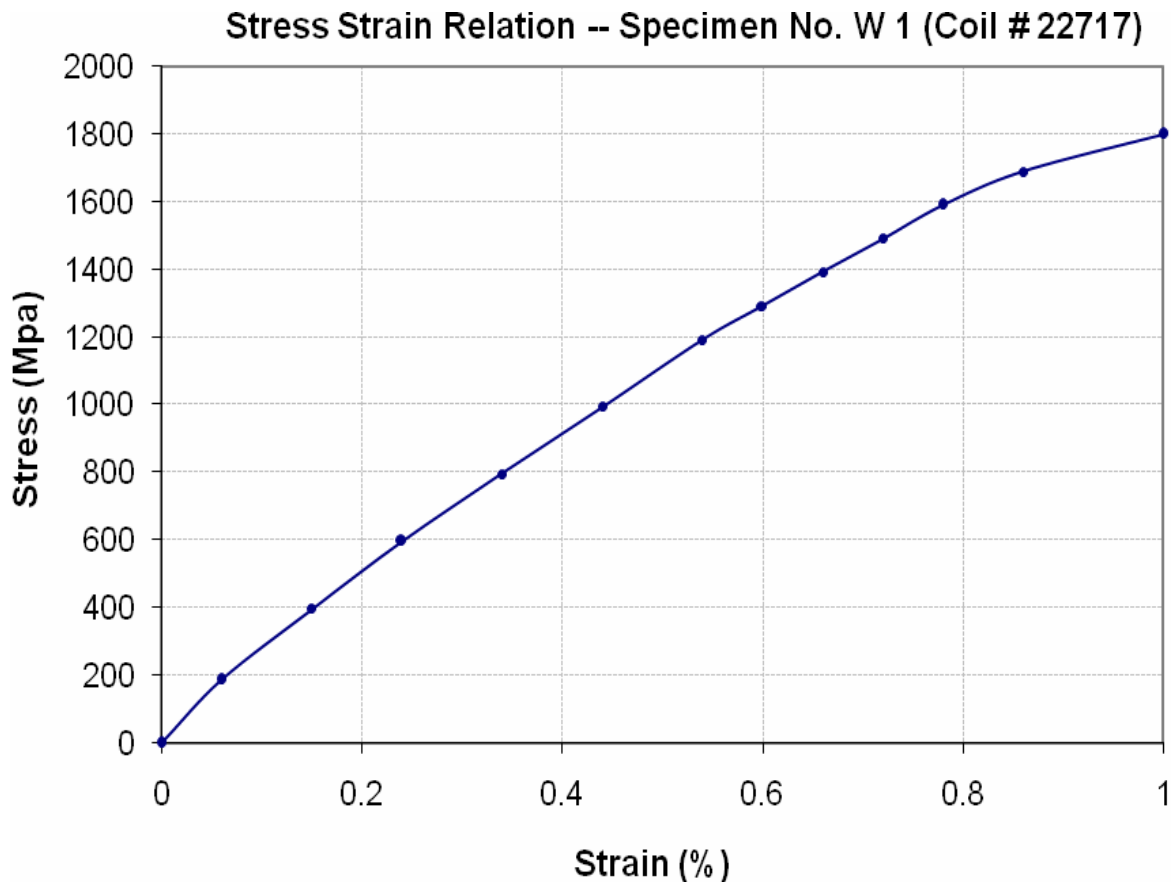
To,
Resident Engineer
NESPAK
Dualization & Improvement of Old Banu Road / Khurram Road Project (P – 02)
(WMI)

Reference # CED/TFL **36721** (Dr. Ali Ahmed)
Reference of the request letter # OBR/KKP-02/RE/AHJ/614

Dated: 09-07-2021

Dated: 04-07-2021

Graph (Page – 2/2)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
Zeeruk International (Pvt) Ltd
Traffic Management Solution for Rawal Chowk & Park Road, Islamabad
(United Wire Industry)

Reference # CED/TFL **36740 (Dr. Ali Ahmed)**
Reference of the request letter # ZI/RE/RCP/Gen/21/128

Dated: 12-07-2021
Dated: 10-07-2021

Tension Test Report (Page -1/4)

Date of Test 14-07-2021
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)			
1	12.70 (1/2")	775.0	781.0	17900	175.60	19900	195.22	199	>3.50	1
2	12.70 (1/2")	775.0	779.0	19000	186.39	20200	198.16	198	>3.50	2
3	12.70 (1/2")	775.0	784.0	18000	176.58	20100	197.18	199	>3.50	3
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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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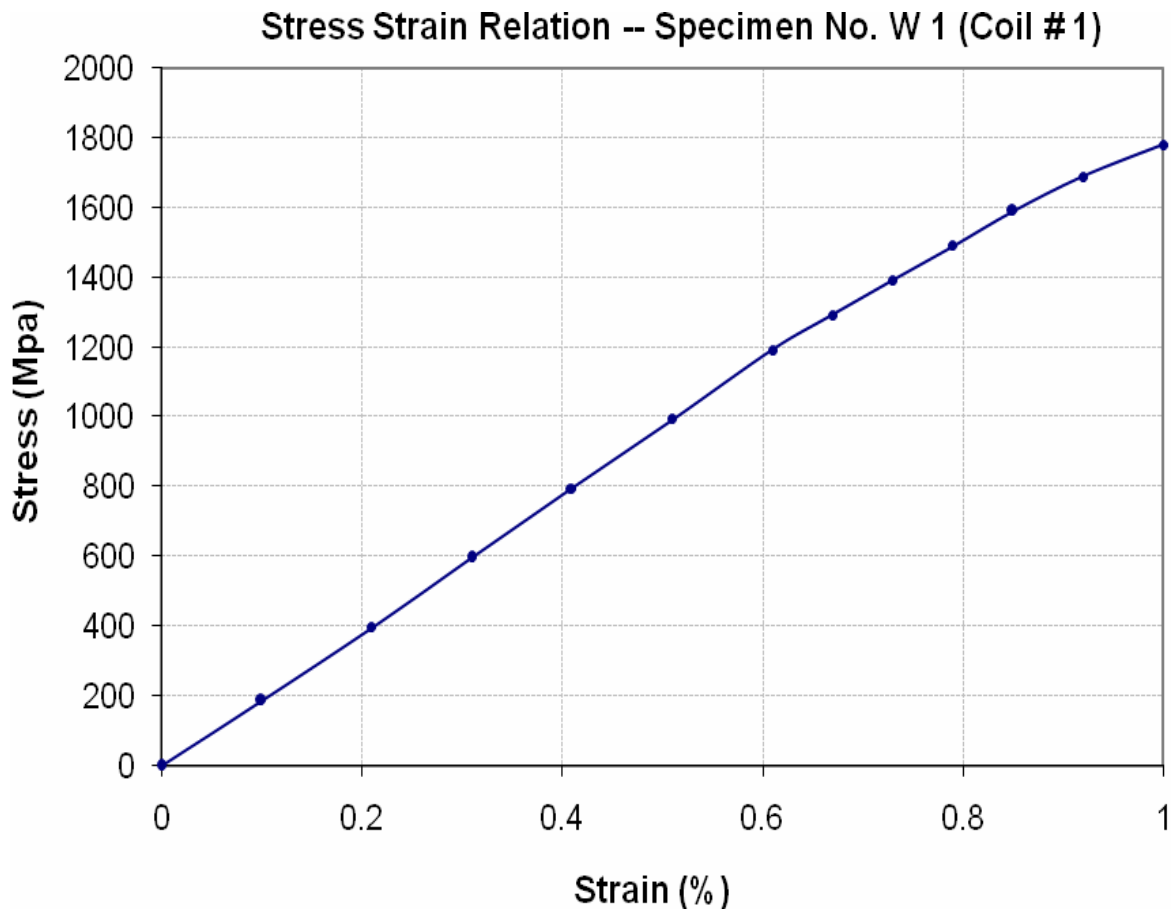
To,
Resident Engineer
Zeeruk International (Pvt) Ltd
Traffic Management Solution for Rawal Chowk & Park Road, Islamabad
(United Wire Industry)

Reference # CED/TFL **36740** (Dr. Ali Ahmed)
Reference of the request letter # ZI/RE/RCP/Gen/21/128

Dated: 12-07-2021

Dated: 10-07-2021

Graph (Page – 2/4)



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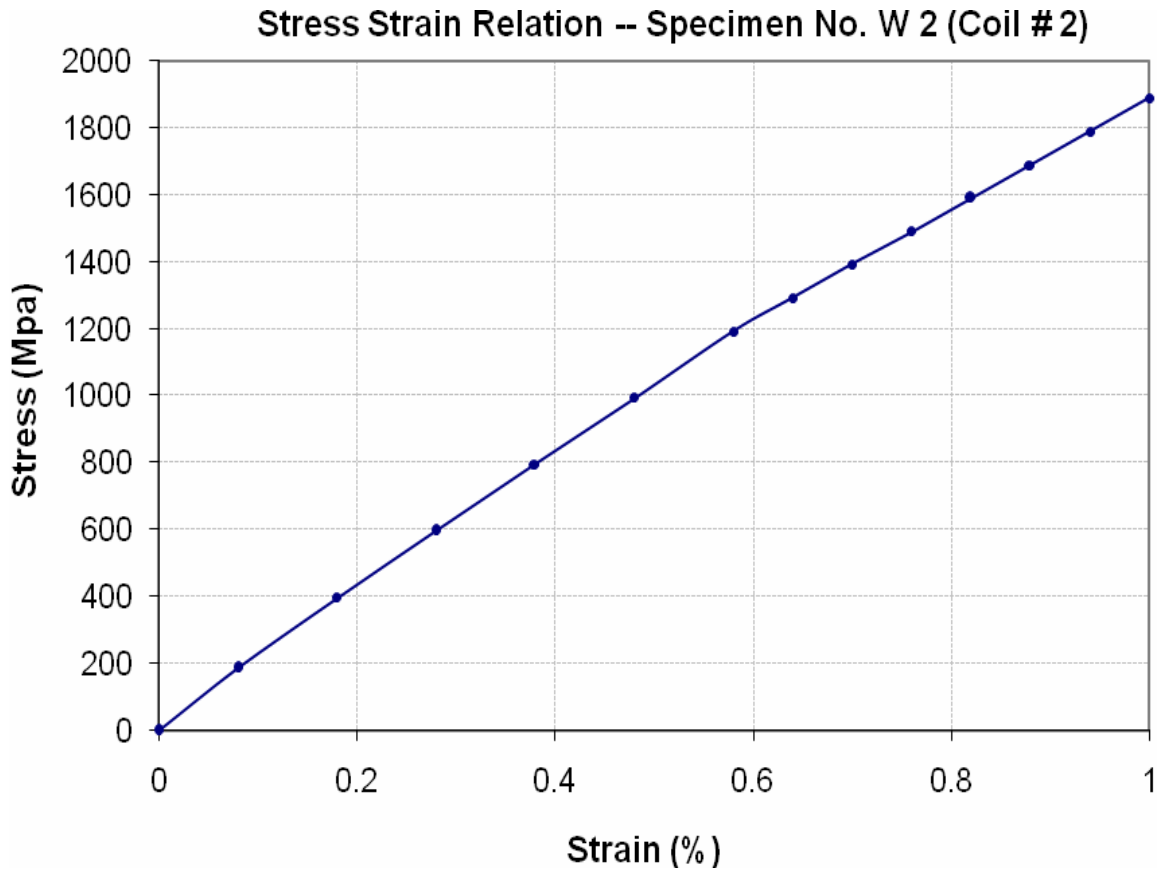
To,
Resident Engineer
Zeeruk International (Pvt) Ltd
Traffic Management Solution for Rawal Chowk & Park Road, Islamabad
(United Wire Industry)

Reference # CED/TFL **36740 (Dr. Ali Ahmed)**
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Dated: 12-07-2021

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Graph (Page – 3/4)



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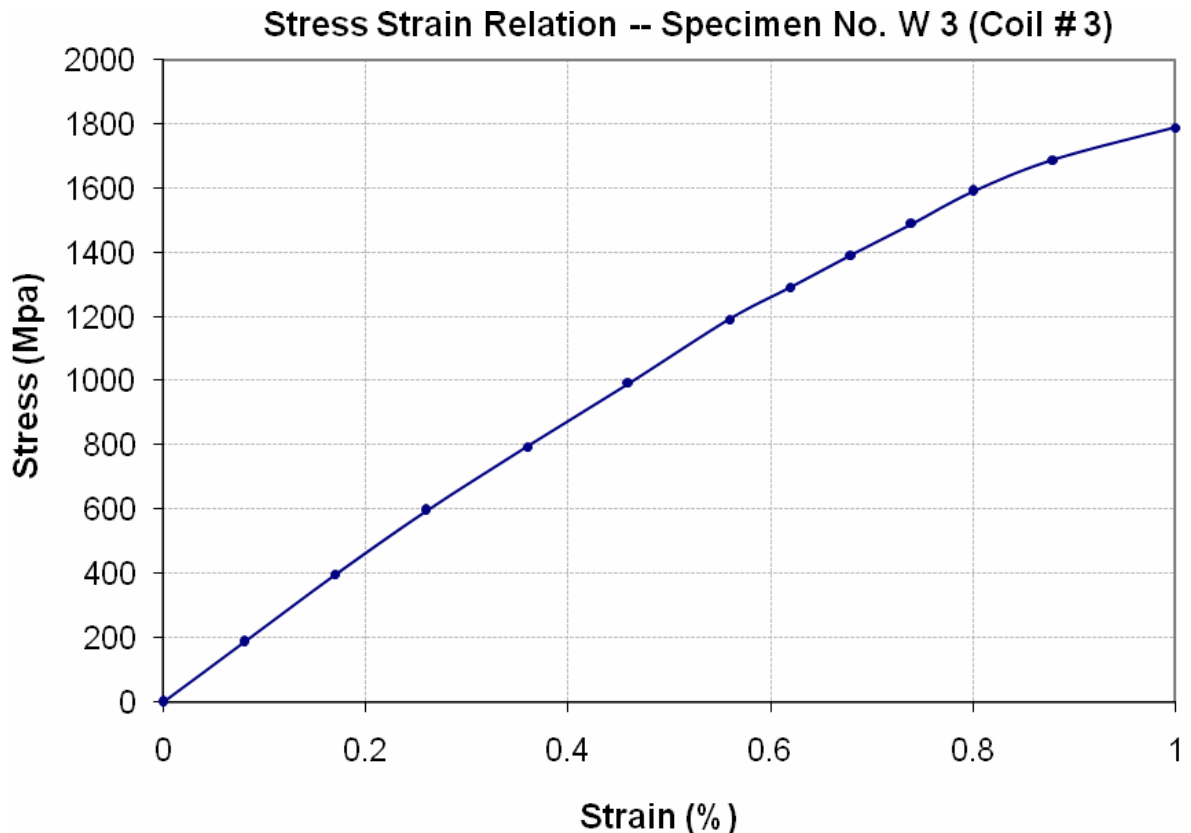
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Dated: 12-07-2021

Dated: 10-07-2021

Graph (Page – 3/4)



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To,
 Project Manager/ Resident Head (Civil) JHC
 Jaggran-II Hydropower Consultants
 EPC Contract for 48MW Jaggran-II Hydropower Project

Reference # CED/TFL **36750** (Dr. Safer Abbass)
 Reference of the request letter # E314-JHC-EPCC-OC-405

Dated: 13-07-2021
 Dated: 13-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
 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	4.097	32	31.45	1.25	1.204	38000	49200	67020	69550	86773	90100	1.40	17.5	Pak Steel
2	4.090	32	31.42	1.25	1.202	36400	49600	64198	66740	87479	91000	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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To,
Resident Engineer
PAVRON
Improvement / Upgradation of Road from Khar to Timergara
(Heat # Y2B019503, Wire & Cable Products (Pvt) Ltd. - CCL Brand)

Reference # CED/TFL **36751** (Dr. Ali Ahmed)
Reference of the request letter # RE/TDP/Sec-2/2021/0072

Dated: 13-07-2021
Dated: 11-07-2021

Tension Test Report (Page -1/2)

Date of Test 14-07-2021
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	781.0	18300	179.52	20200	198.16	199	>3.50	170
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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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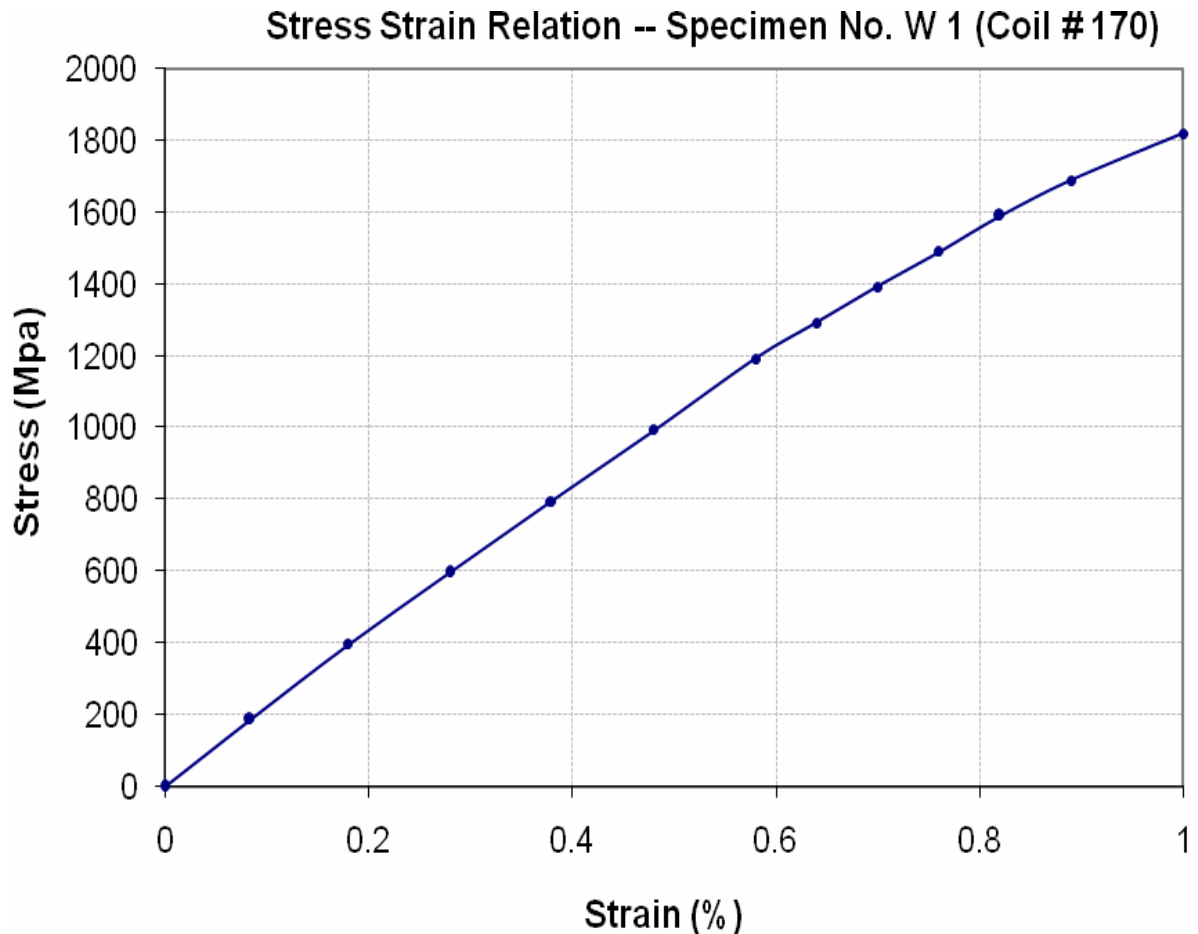
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
PAVRON
Improvement / Upgradation of Road from Khar to Timergara
(Heat # Y2B019503, Wire & Cable Products (Pvt) Ltd. - CCL Brand)

Reference # CED/TFL 36751 (Dr. Ali Ahmed)
Reference of the request letter # RE/TDP/Sec-2/2021/0072

Dated: 13-07-2021
Dated: 11-07-2021

Graph (Page – 2/2)



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Ltd.
Lahore

Reference # CED/TFL **36755** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 13-07-2021

Dated: 13-07-2021

Tension Test Report (Page – 1/1)

Date of Test 14-04-2021
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)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	775.0	781.0	16600	162.85	18300	179.52	>3.50	2
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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,
 Coordinator
 Banu Mukhtar Contracting (Pvt.) Ltd.
 Ultra Kraft (Pvt) Ltd M3 Industrial Estate Faisalabad

Reference # CED/TFL **36759** (Dr. Safer Abbass)
 Reference of the request letter # BML/003

Dated: 13-07-2021
 Dated: 06-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM A-615

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	0.378	3	0.376	0.11	0.111	3540	4740	71000	70320	95000	94200	1.10	13.8	
2	0.367	3	0.370	0.11	0.108	3330	4540	66800	68110	91000	92900	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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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 NESPAK jv TurPak
 Resident Construction Supervision for Establishment of Dera Ghazi Khan Institute of Cardiology

Reference # CED/TFL **36760** (Dr. Safer Abbass)
 Reference of the request letter # 4161/RE/SFMK/DGK/405

Dated: 14-07-2021
 Dated: 09-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
 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	0.366	3	0.370	0.11	0.108	3180	4660	63800	65190	93400	95600	1.20	15.0	Ittehad Steel
2	0.366	3	0.370	0.11	0.107	3080	4640	61800	63190	93000	95200	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.

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Department of Civil Engineering
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To,
 Quantity Surveyor
 Linker
 Over Head Water Tanks – Dream Gardens, Wazirabad

Reference # CED/TFL **36761** (Dr. Safer Abbass)
 Reference of the request letter # Nil

Dated: 14-07-2021
 Dated: 12-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
 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	0.408	3	0.391	0.11	0.120	3720	5420	74600	68360	108600	99600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer
 Orbit Developers Private Limited
 The Spring, Gulberg Lahore

Reference # CED/TFL **36762** (Dr. Safer Abbass)
 Reference of the request letter # Nil

Dated: 14-07-2021
 Dated: 14-07-2021

Tension Test Report (Page -1/1)

Date of Test 14-07-2021
 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	3330	5000	66800	65640	100200	98600	1.20	15.0	
2	0.380	3	0.377	0.11	0.112	3420	5120	68600	67400	102600	101000	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														

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UET Lahore, Pakistan.

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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
 NESPAK

Punjab Intermediate Cities Improvement Investment Program (PICIIP),
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Lines and Allied Work (NCB-Works/PICIIP-03 (Lot-02)

Reference # CED/TFL **36763** (Dr. Safer Abbass)

Dated: 14-07-2021

Reference of the request letter # 3976/11/MT/Lot-2/147

Dated: 12-07-2021

Tension Test Report (Page -1/1)

Date of Test

14-07-2021

Gauge length

8 inches

Description

Deformed Steel Bar Tensile and Bend Test as per ASTM A-615

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	3430	5100	68800	71360	102200	106100	1.10	13.8	Fazal Steel
2	0.362	3	0.368	0.11	0.106	3330	5100	66800	69070	102200	105800	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:

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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 Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36765** (Dr. Safer Abbass)
Reference of the request letter # IHPL/Steel/100

Dated: 14-07-2021

Dated: 13-07-2021

Tension Test Report (Page -1/2)

Date of Test 14-07-2021
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	0.367	3	0.371	0.11	0.108	3200	4800	64200	65400	96200	98100	1.00	12.5	PCS Steel
2	0.365	3	0.370	0.11	0.107	3200	4900	64200	65670	98200	100600	0.90	11.3	
3	0.369	3	0.372	0.11	0.109	3300	4900	66200	67040	98200	99600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Rafi Ullah (IHPL) & Ali Haris Khan (KB)

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 Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36765** (Dr. Safer Abbass)
Reference of the request letter # IHPL/Steel/104

Dated: 14-07-2021

Dated: 09-07-2021

Tension Test Report (Page -2/2)

Date of Test 14-07-2021
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	0.365	3	0.369	0.11	0.107	2900	4800	58200	59620	96200	98700	1.10	13.8	PCS Steel
2	0.367	3	0.371	0.11	0.108	3300	4900	66200	67430	98200	100200	1.10	13.8	
3	0.382	3	0.378	0.11	0.112	3100	4700	62200	60790	94200	92200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Rafi Ullah (IHPL) & Ali Haris Khan (KB)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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