



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
 Buildings Sub Division No. 12
 Lahore
 (Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore)

Reference # CED/TFL **36070** (Dr. Qasim Khan)
 Reference of the request letter # 92/SDO12th

Dated: 11-02-2021
 Dated: 08-02-2021

Tension Test Report (Page -1/1)

Date of Test 15-02-2021
 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	0.379	3/8	0.377	0.11	0.111	3400	4800	68200	67310	96200	95100	1.50	18.8	Kamran Steel
2	0.376	3/8	0.375	0.11	0.110	3300	4800	66200	65890	96200	95900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
Resident Engineer
NESPAK
Construction of High Level Bridge over Racy Nullah Tahsil Jand Distrcit Attock

Reference # CED/TFL **36074** (Dr. Qasim Khan)
Reference of the request letter # 3126/RE/ADP/SUJ/03/37

Dated: 11-02-2021
Dated: 09-02-2021

Tension Test Report (Page – 1/4)

Date of Test 15-02-2021
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	788.0	17300	169.71	18900	185.41	199	>3.50	xx
2	12.70 (1/2")	775.0	792.0	17400	170.69	18800	184.43	198	>3.50	xx
3	12.70 (1/2")	775.0	777.0	18400	180.50	20000	196.20	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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UET Lahore, Pakistan.

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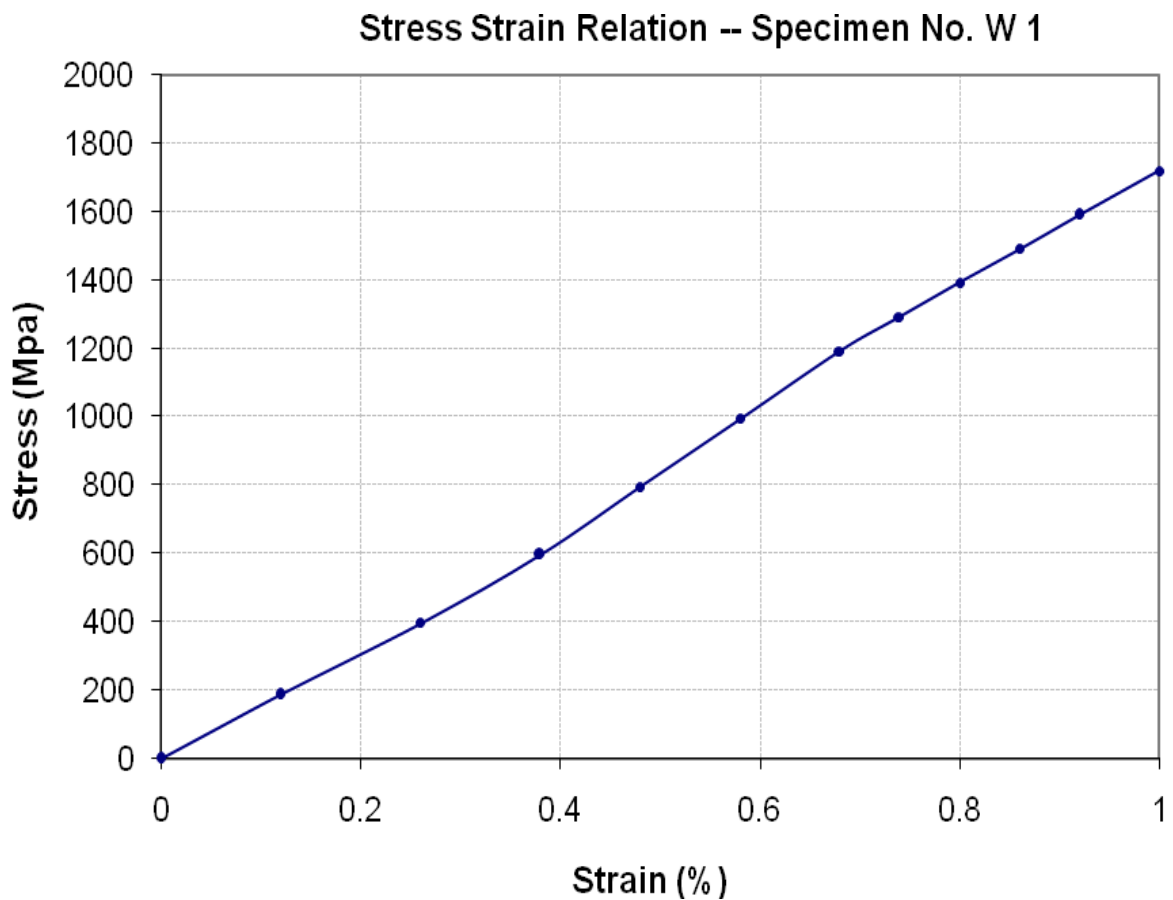
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Dated: 11-02-2021
Dated: 09-02-2021

Graph (Page – 2/4)



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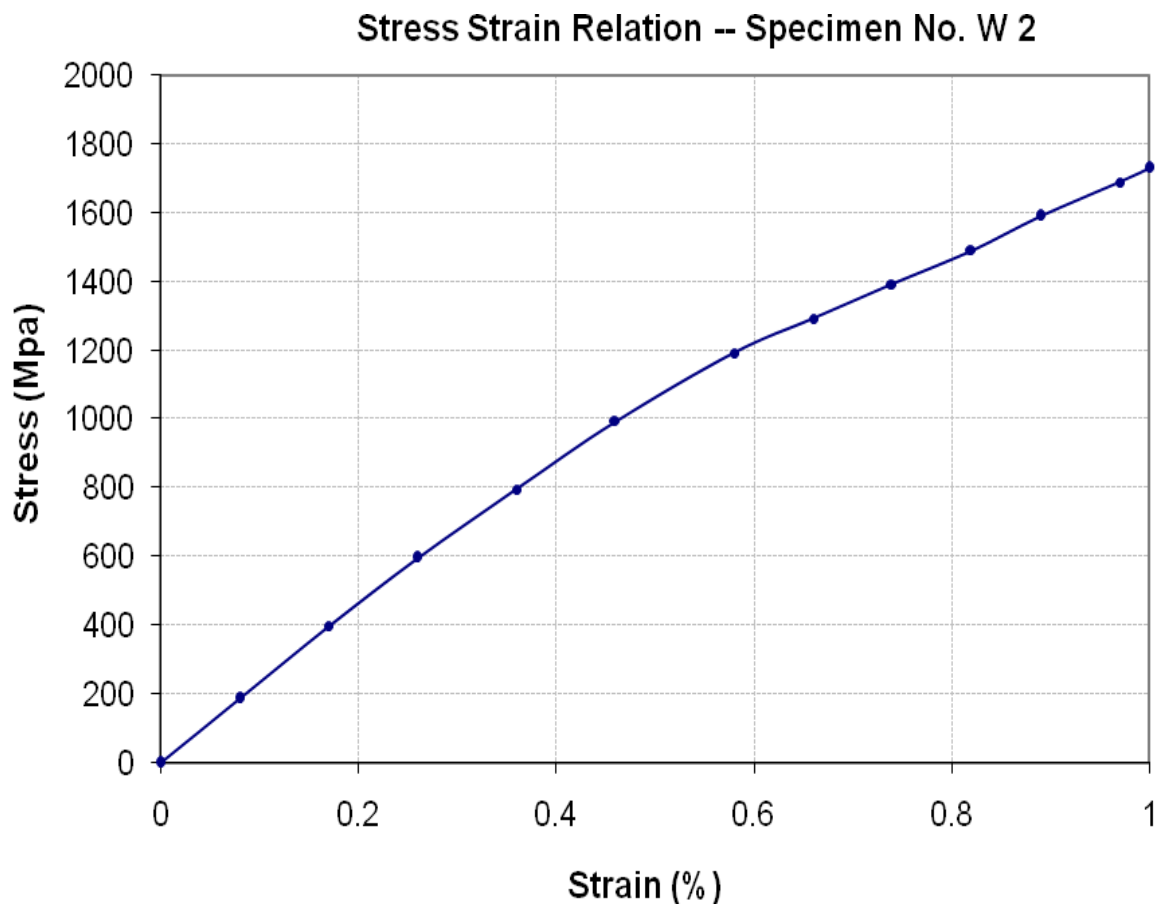
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Dated: 11-02-2021
Dated: 09-02-2021

Graph (Page – 3/4)



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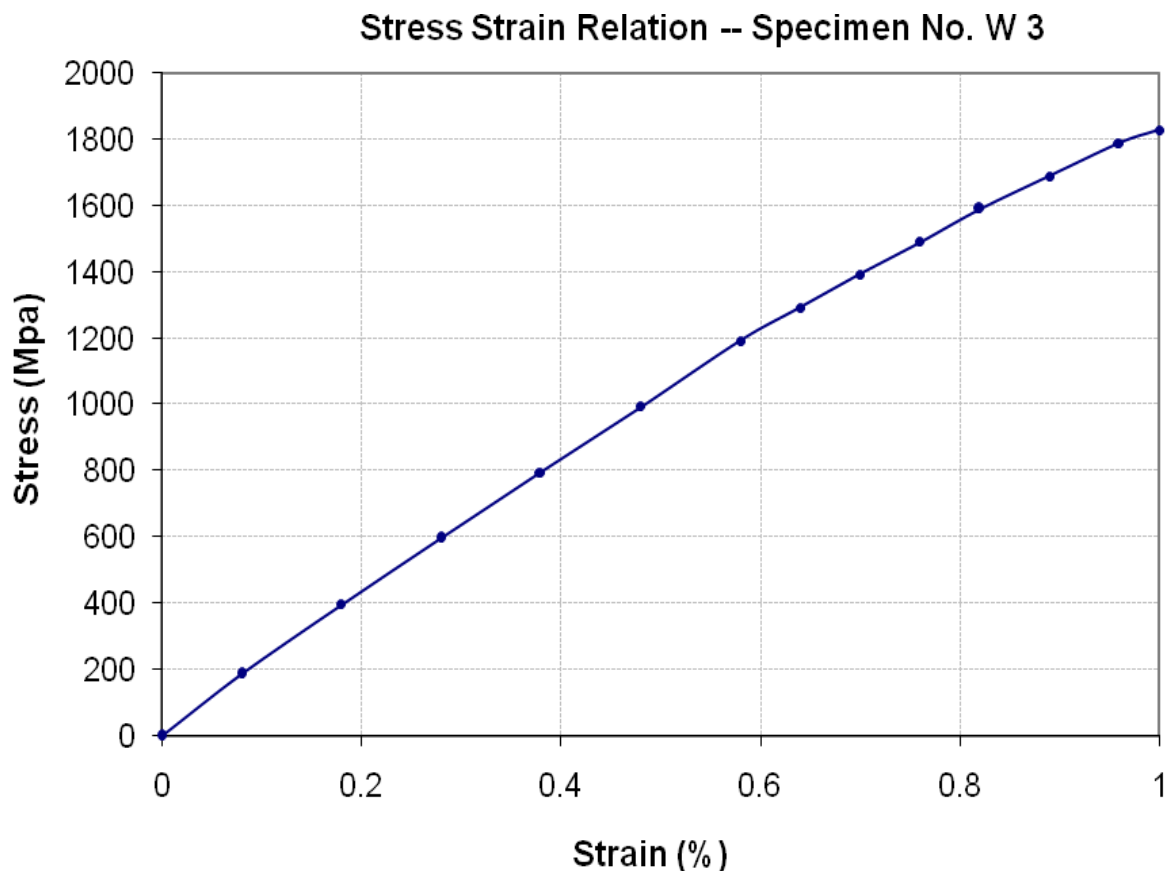
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Dated: 11-02-2021
Dated: 09-02-2021

Graph (Page – 4/4)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
 M/S Ittefaq Construction Associates
 Johar Town, Lahore

Reference # CED/TFL **36077** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-02-2021
 Dated: 12-02-2021

Tension Test Report (Page -1/1)

Date of Test 15-02-2021
 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	0.376	3	0.375	0.11	0.111	3700	5200	74200	73780	104200	103700	1.40	17.5	Kamran Steel
2	0.373	3	0.373	0.11	0.110	3600	5000	72200	72460	100200	100700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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
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To,
 Project Manager
 Dcon Construction
 Allied Bank Limited, Plot no. 172, DD Block, Phase 4, CCA Commercial Area, DHA Lahore

Reference # CED/TFL **36078** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-02-2021
 Dated: 11-02-2021

Tension Test Report (Page -1/1)

Date of Test 15-02-2021
 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	0.380	3/8	0.377	0.11	0.112	3100	4200	62200	61160	84200	82900	1.50	18.8	
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Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
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To,
 Ali Abbas
 H. No. B-13/730, Chah Beri Wala, Gujrat
 (Ayaz Khan)

Reference # CED/TFL **36079** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-02-2021
 Dated: 12-02-2021

Tension Test Report (Page -1/1)

Date of Test 15-02-2021
 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	0.372	3/8	0.373	0.11	0.109	3500	5300	70200	70530	106200	106900	1.10	13.8	Islamabad Steel	
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Note: only one sample for tensile test															
Bend Test															

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To,
 Engr. Mustehson Ali Khan
 Flag Square Builder
 Palace Mall Eithad Town Lahore

Reference # CED/TFL **36080** (Dr. Usman Akmal)
 Reference of the request letter # FBS/03/ST

Dated: 12-02-2021
 Dated: 12-02-2021

Tension Test Report (Page -1/1)

Date of Test 15-02-2021
 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	3500	4800	70200	69000	96200	94700	1.10	13.8	
2	0.377	3	0.376	0.11	0.111	3400	4800	68200	67580	96200	95400	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														

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To,
Authorized Representative/ Jr. Planning Engineer
Techno Time Construction (Pvt) Ltd
Widening/Improvement of Road from Khawajabad to Moch City Length 4.00km in District
Mianwali

Reference # CED/TFL **36083** (Dr. Qasim Khan)
Reference of the request letter # TTC/LHR/UET/2021/1506

Dated: 15-02-2021
Dated: 14-02-2021

Tension Test Report (Page – 1/2)

Date of Test 15-02-2021
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	790.0	17600	172.66	19100	187.37	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

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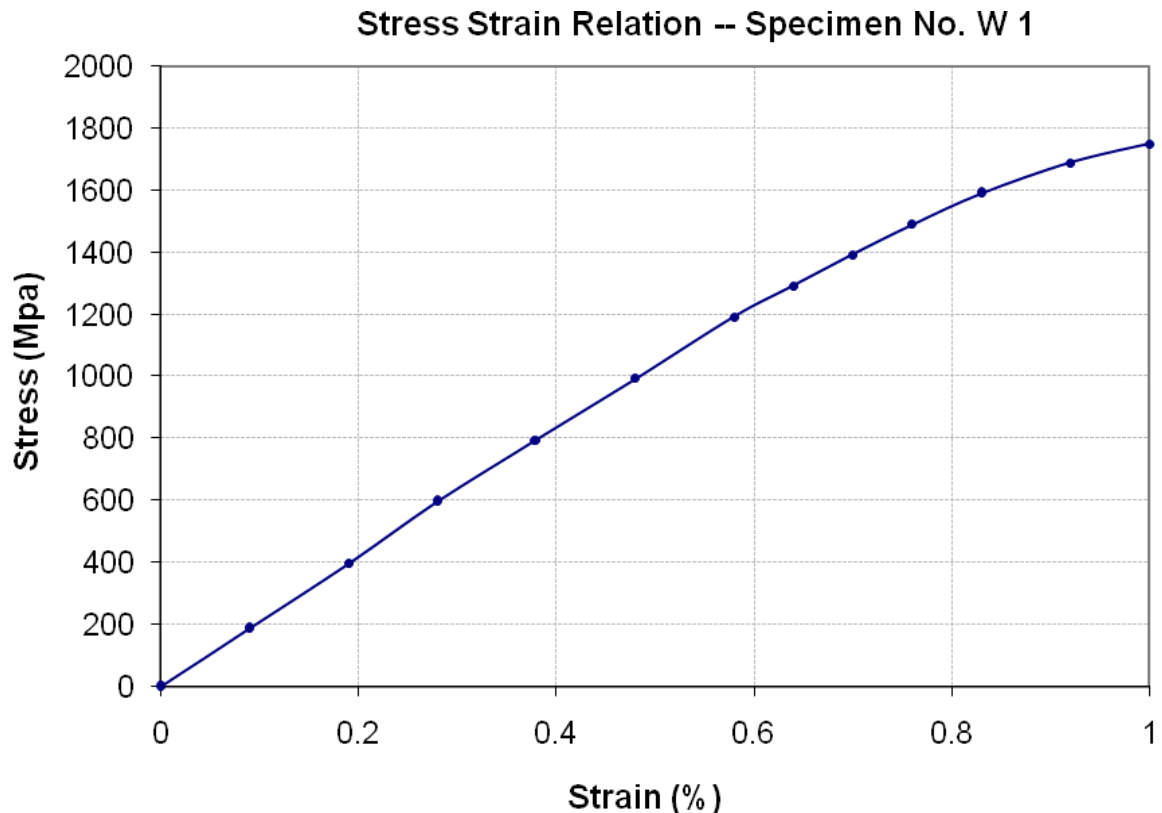
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To,
Authorized Representative/ Jr. Planning Engineer
Techno Time Construction (Pvt) Ltd
Widening/Improvement of Road from Khawajabad to Moch City Length 4.00km in District
Mianwali

Reference # CED/TFL **36083** (Dr. Qasim Khan)
Reference of the request letter # TTC/LHR/UET/2021/1506

Dated: 15-02-2021
Dated: 14-02-2021

Graph (Page – 2/2)



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