



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 Ghani Ceramics Limited.
Lahore

Reference # CED/TFL **34768** (Dr. Qasim khan)
Reference of the request letter # Nil

Dated: 02-03-2020
Dated: 02-03-2020

Tension Test Report (Page – 1/1)

Date of Test 09-03-2020
Gauge length 2 inches
Description MS 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	5	23.30x4.90	114.17	5800	7400	498.36	635.84	0.60	30.00	
2	5	23.30x4.90	114.17	5700	7400	489.77	635.84	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only Two Samples for Tensile and One for Bend Test										
Bend Test										
Strip Taken from Steel Sheet 5mm Bend Test Through 180° is Satisfactory										

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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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 Stallion Engineering.
Lahore
(Project: Packaging shed at Kasmy Pack Pvt. Ltd. Pholnagar)

Reference # CED/TFL **34776** (Dr. Qasim khan)
Reference of the request letter # SE/KASMY/224/01

Dated: 03-03-2020
Dated: 03-03-2020

Tension Test Report (Page – 1/2)

Date of Test 09-03-2020

Gauge length 2 inches

Description MS Plate Steel Strip Tensile Test As Per ASTM A-36

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	5	23.40x5.10	119.34	4200	6100	345.25	501.43	0.60	30.00	
3	10	23.40x10.00	234.00	9300	10500	389.88	440.19	0.70	35.00	
5	20	23.40x20.20	472.68	19000	21600	394.33	448.29	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only Three Samples 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI (M/s Construct))

Reference # CED/TFL **34797** (Dr. Qsim Khan) Dated: 06-03-2020
Reference of the request letter # 408/241/E/Lab/869/4847 Dated: 06-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
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	0.373	3	0.374	0.11	0.110	3300	4900	66200	66290	98200	98500	1.50	18.8	Kamran Steel
2	0.373	3	0.373	0.11	0.110	3300	4900	66200	66410	98200	98700	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.

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,
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Pak Steel)

Reference # CED/TFL **34798** (Dr. Qasim Khan)
 Reference of the request letter # KK-DIK—BR-PJ/2020/135

Dated: 06-03-2020
 Dated: 05-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	4.143	32	31.63	1.25	1.218	40600	54200	71605	73490	95591	98100	1.30	16.3	
2	4.065	32	31.33	1.25	1.195	41000	54000	72311	75630	95239	99700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34799** (Dr. Qasim Khan)
Reference of the request letter # 365/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Tension Test Report (Page – 1/4)

Date of Test 09-03-2020
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	799.0	18000	176.58	19800	194.24	199	>3.50	62
2	12.70 (1/2")	775.0	793.0	18100	177.56	19900	195.22	198	>3.50	64
3	12.70 (1/2")	775.0	794.0	18600	182.47	19900	195.22	199	>3.50	67
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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.

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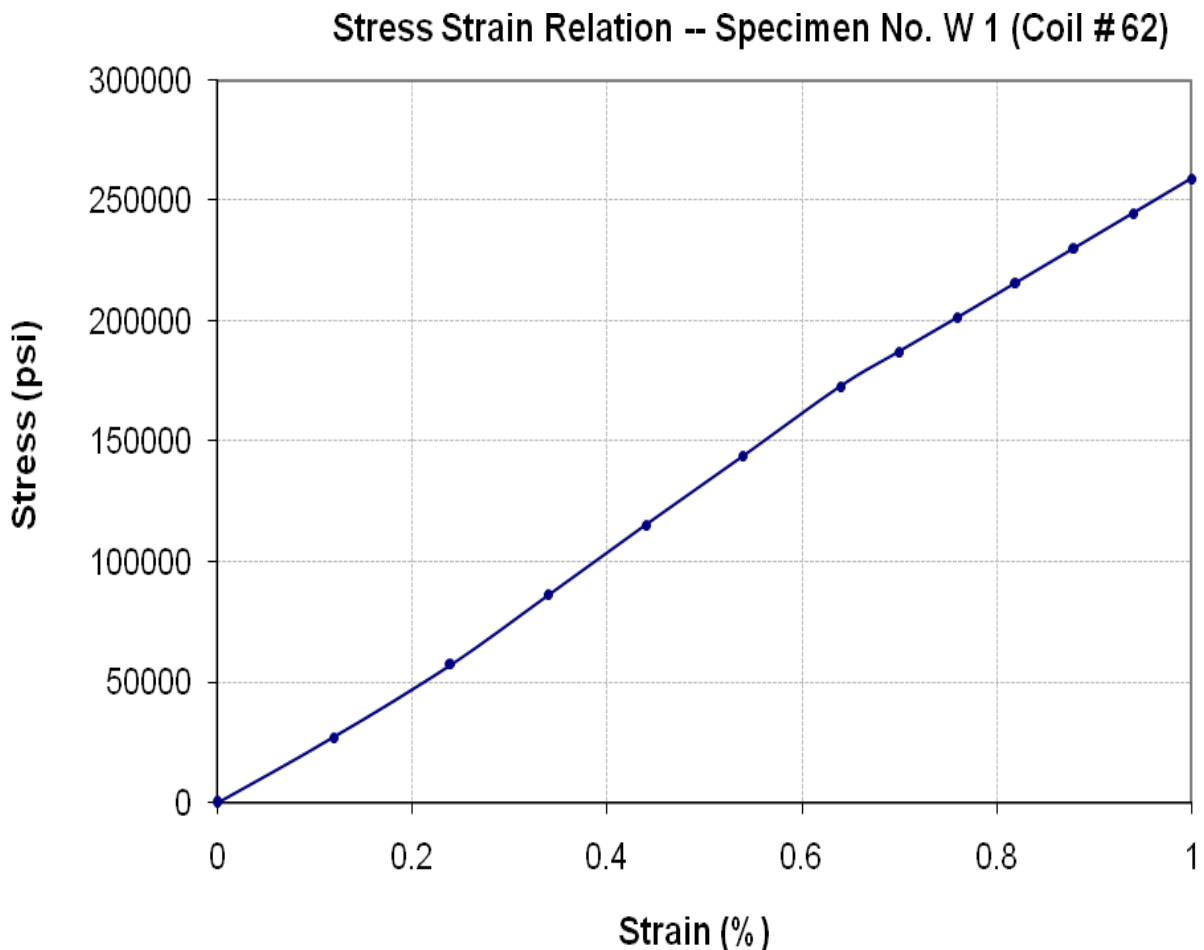
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34799** (Dr. Qasim Khan)
Reference of the request letter # 365/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Graph (Page – 2/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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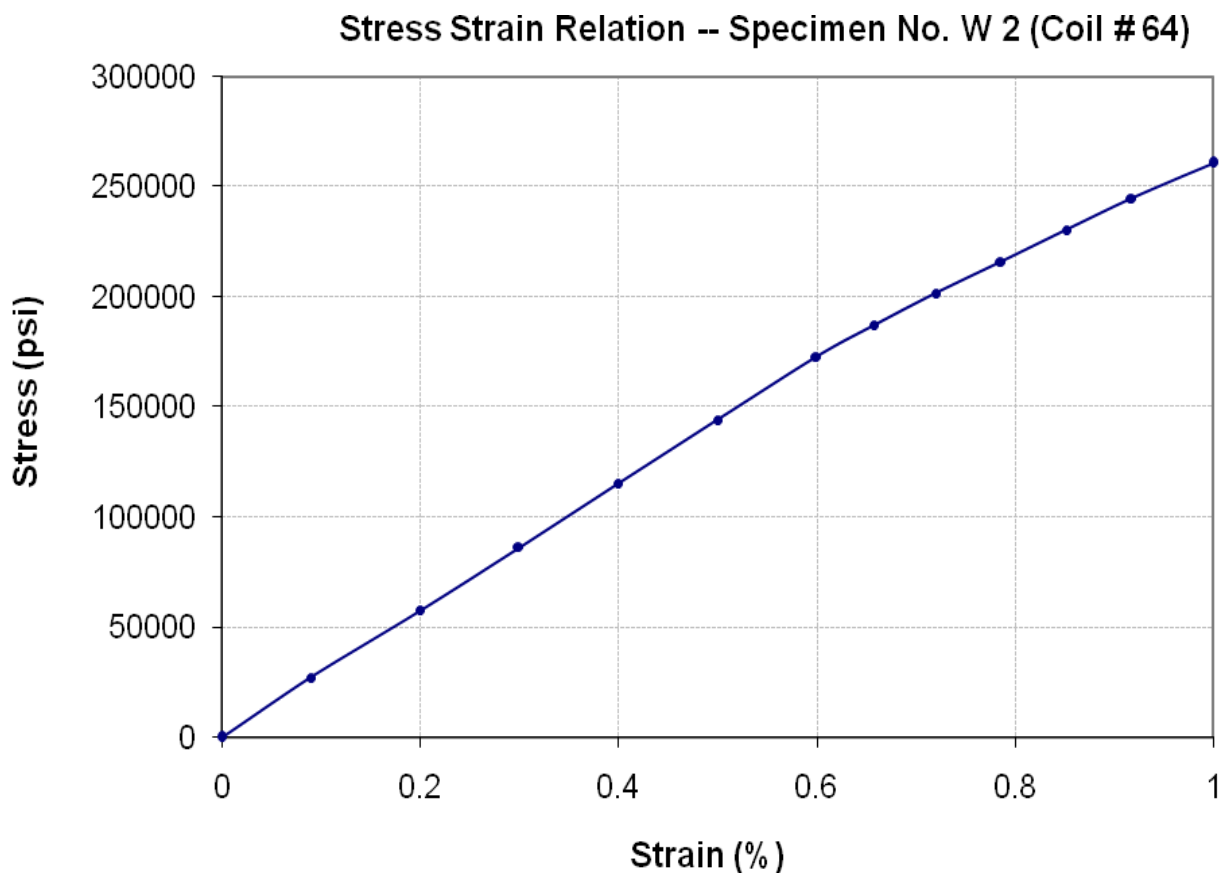
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34799** (Dr. Qasim Khan)
Reference of the request letter # 365/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Graph (Page – 3/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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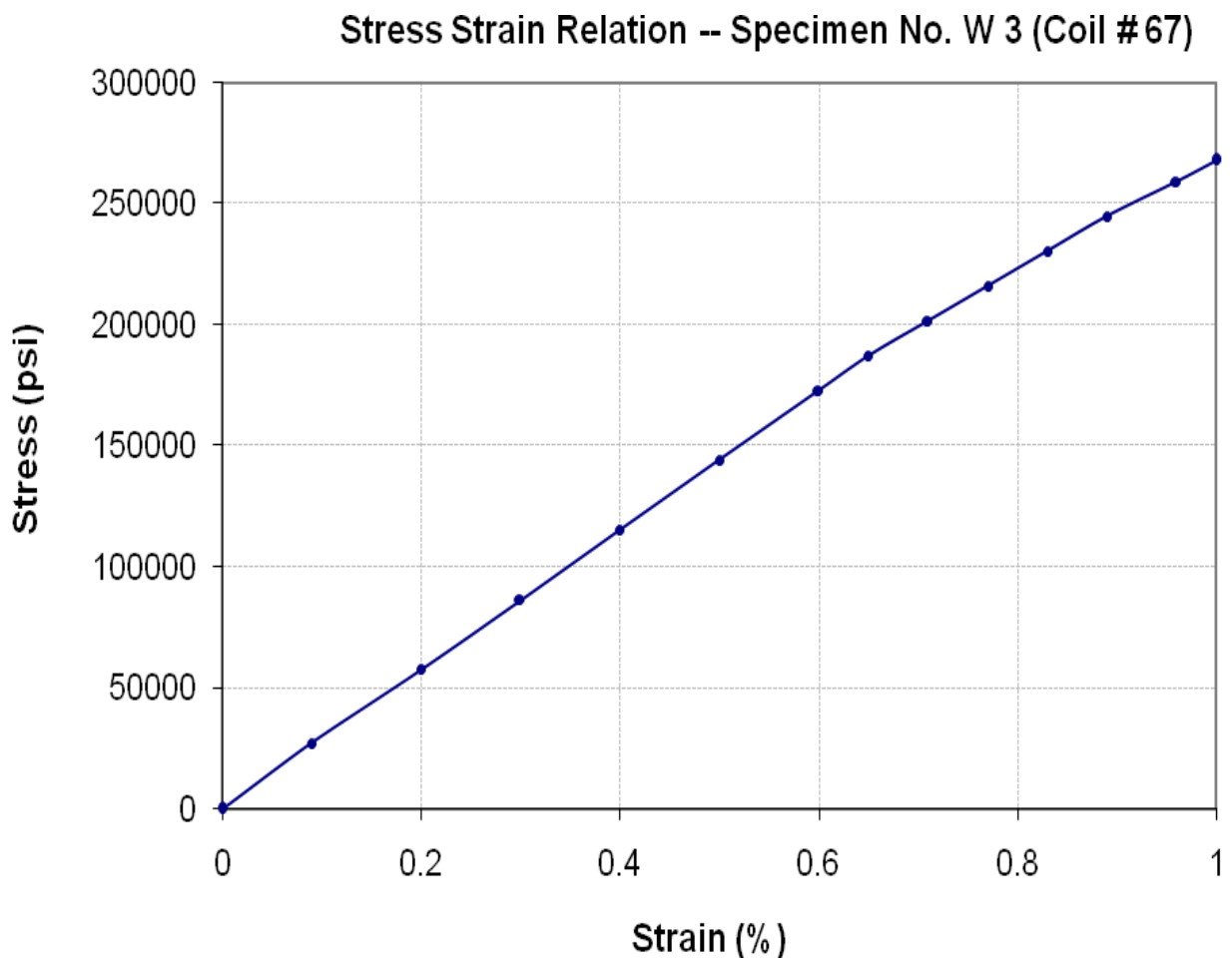
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34799** (Dr. Qasim Khan)
Reference of the request letter # 365/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

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,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34800** (Dr. Qasim Khan)
Reference of the request letter # 366/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Tension Test Report (Page – 1/3)

Date of Test 09-03-2020
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	789.0	17800	174.62	19700	193.26	199	>3.50	70
2	12.70 (1/2")	775.0	792.0	17900	175.60	19900	195.22	199	>3.50	73
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only two 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.

Note:

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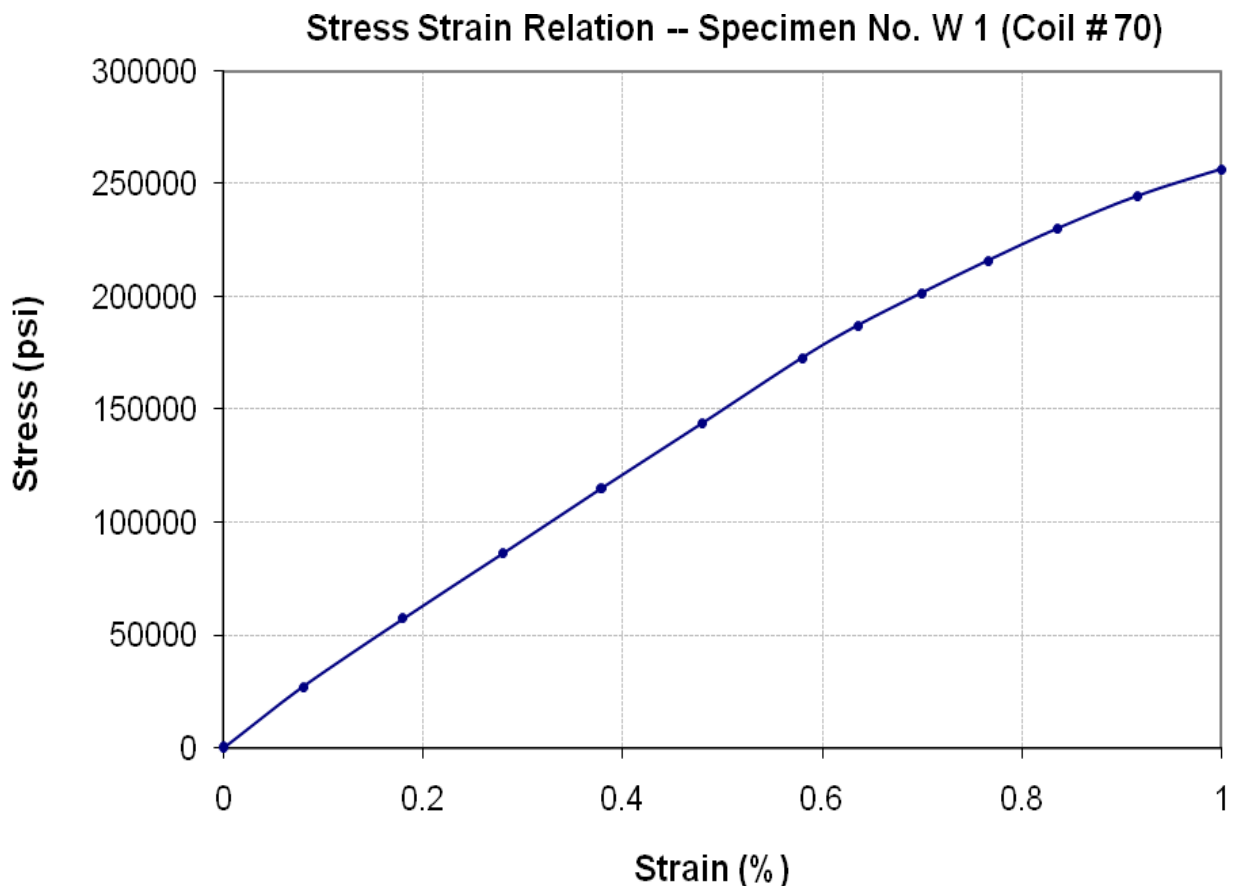
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34800** (Dr. Qasim Khan)
Reference of the request letter # 366/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Graph (Page – 2/3)



I/C Testing Laboratories
UET Lahore, Pakistan.

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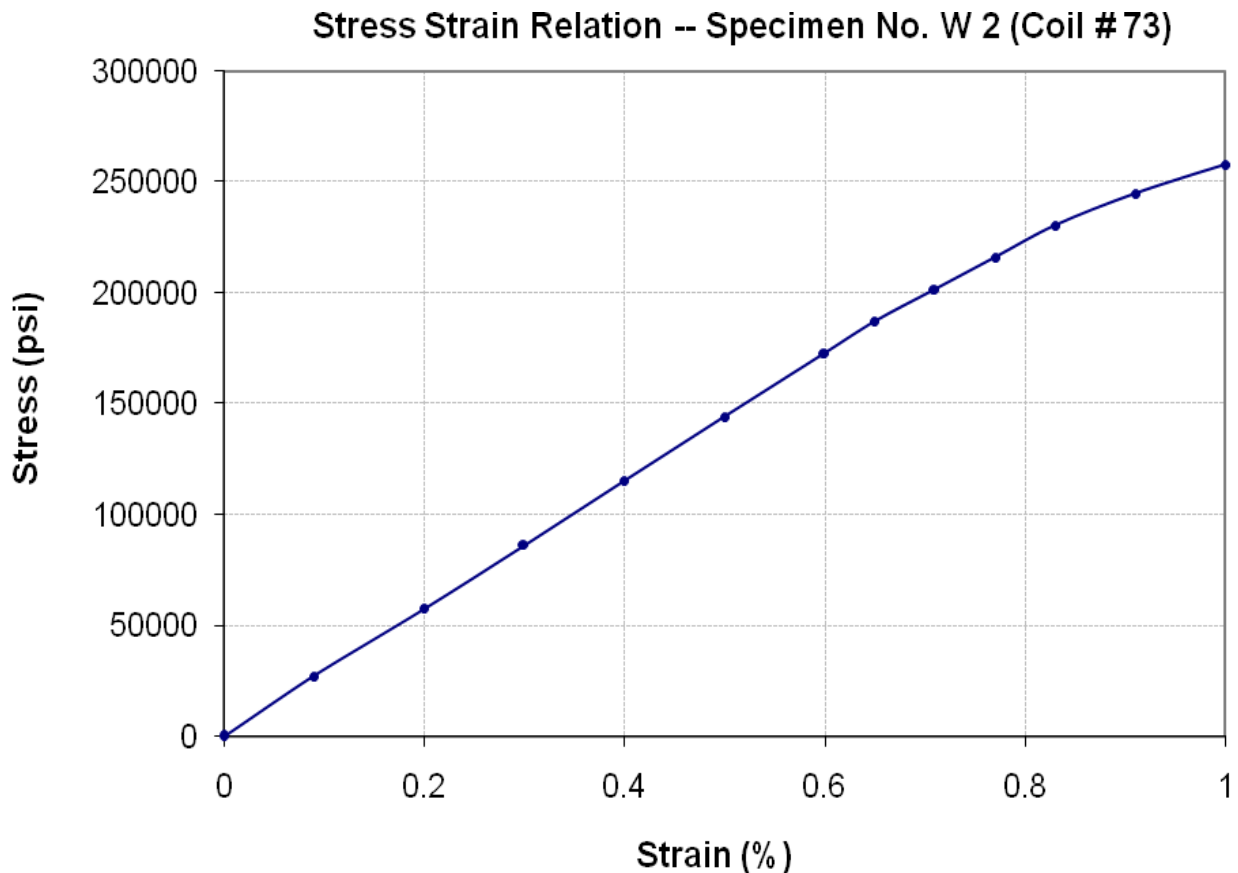
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **34800** (Dr. Qasim Khan)
Reference of the request letter # 366/CRE/QAT/SMP/2020

Dated: 06-03-2020
Dated: 04-03-2020

Graph (Page – 3/3)



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,
 Sub Divisional Officer
 Buildings Sub Division
 Sheikhpura
 (Construcon of Two Class Rooms at Chah KHatrian Wala, District Sheikhpura)

Reference # CED/TFL **34802** (Dr. Qsim Khan)
 Reference of the request letter # 7039

Dated: 06-03-2020
 Dated: 02-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	0.362	3/8	0.368	0.11	0.106	4000	4900	80200	82830	98200	101500	0.80	10.0	
2	0.356	3/8	0.365	0.11	0.105	4100	5050	82200	86400	101200	106500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Buildings Sub Division
 Sohawa
 (Construction of Tehsil Complex at Dina, District Jehlum)

Reference # CED/TFL **34803** (Dr. Qsim Khan)
 Reference of the request letter # 293

Dated: 06-03-2020
 Dated: 03-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	0.383	3/8	0.379	0.11	0.113	3000	4400	60200	58750	88200	86200	1.40	17.5	
2	0.381	3/8	0.378	0.11	0.112	3000	4400	60200	58980	88200	86500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Site Engineer
 University of Management and Technology
 Lahore

Reference # CED/TFL **34804** (Dr. Qsim Khan)
 Reference of the request letter # NII

Dated: 06-03-2020
 Dated: 06-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	3700	5100	74200	74540	102200	102800	1.20	15.0	
2	0.373	3	0.374	0.11	0.110	3700	5100	74200	74400	102200	102600	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,
 Sub Divisional Officer
 Highway Sub Division
 Shorkot

(Dualization/ Widening/ Improvement of Road from Garh Mahraja to Ghail Pur Including Links
 Length: 7.65 km District Jhang GRS No. 3957)(Habib Construction Services Ltd.)

Reference # CED/TFL **34805** (Dr. Qsim Khan)
 Reference of the request letter # 70

Dated: 06-03-2020
 Dated: 18-02-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	0.376	3	0.375	0.11	0.111	3300	5300	66200	65770	106200	105700	1.10	13.8	Nomi Steel
2	0.377	3	0.376	0.11	0.111	3400	5200	68200	67660	104200	103500	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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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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
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To,
 Project Manager
 Dupak Properaties (Pvt) Ltd
 Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **34809** (Dr. Qasim Khan)
 Reference of the request letter # Dupak/DVA/043

Dated: 09-03-2020
 Dated: 09-03-2020

Tension Test Report (Page -1/1)

Date of Test 09-03-2020
 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	0.373	0.11	0.109	3400	5350	68200	68720	107200	108200	1.10	13.8	
2	0.370	3	0.372	0.11	0.109	3400	5300	68200	68990	106200	107600	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
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples