



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

To,
 Assistant Works Manager
 Pakistan Railways
 PR/Bridge Workshop, Jhelum
 (Gate Leaves (RWP Division))

Reference # CED/TFL **32424** (Dr. Usman Akmal)
 Reference of the request letter # 196-S/103

Dated: 14-01-2019
 Dated: 11-01-2019

Tension Test Report (Page – 1/1)

Date of Test 18-01-2019

Gauge length 2 inches

Description Steel Structure Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	M.S Angle	2 ¹ / ₂ x2 ¹ / ₂ x3/8x12	26.50x10.40	275.60	13200	19100	469.85	679.87	0.50	25.00	
2		2 ¹ / ₂ x2 ¹ / ₂ x3/8x12	26.50x10.40	275.60	13000	19000	462.74	676.31	0.50	25.00	
3	M.S Plate	4x1/4x15	26.80x5.90	158.12	5000	7400	310.21	459.11	0.70	35.00	
4		4x1/4x15	26.80x5.90	158.12	5300	7700	328.82	477.72	0.70	35.00	
5	M.S Plate	4x1/16x15	26.70x1.50	40.05	680	1240	166.56	303.73	0.80	40.00	
6		4x1/16x15	26.70x1.50	40.05	720	1240	176.36	303.73	0.80	40.00	
7	M.S Flat	1 ¹ / ₂ x1/4x15	18.50x5.80	107.30	2800	4600	255.99	420.56	0.50	25.00	
8		1 ¹ / ₂ x1/4x15	18.50x5.80	107.30	3000	5100	274.28	466.27	0.50	25.00	
Only Eight Samples 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,
M/S Rajput Concrete Pvt Ltd
Multan Road, Lahore

Reference # CED/TFL **32437** (Dr. Qasim Khan)
Reference of the request letter # RC/PC/UET/03

Dated: 15-01-2019

Dated: 15-01-2019

Tension Test Report (Page – 1/1)

Date of Test 18-01-2019
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	437.0	8800	86.33	11200	109.87	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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

Ref: CED/TFL/01/32442

Dated: 16-01-19

To
M/S Condrill (Pvt) Ltd
Kot Lakhpat Lahore

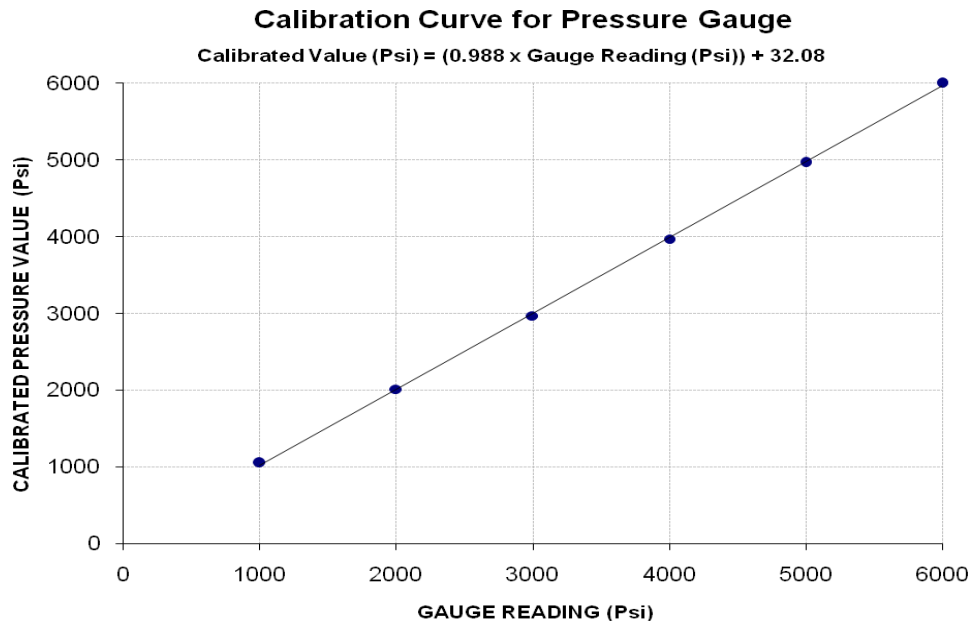
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/01/32442)

Reference to your Letter No. CD/MISC/2019, dated: 15/01/2019 on the subject cited above. One Pressure Gauge (WIKA) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 8000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000
Calibrated Load (kg)	14600	28000	41300	55200	69100	83500
Calibrated Pressure (Psi)	1048.77	2011.33	2966.72	3965.20	4963.68	5998.08

The Ram Area of Calibration = 198 cm²



I/C Testing Laboratories
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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
 Swat Motorway Project

Reference # CED/TFL **32453** (Dr. Qasim Khan)
 Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
 Dated: 14-01-2019

Tension Test Report (Page – 1/4)

Date of Test 18-01-2019
 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	18400	180.50	20000	196.20	199	>3.50	017
2	12.70 (1/2")	775.0	779.0	18900	185.41	20000	196.20	199	>3.50	023
3	12.70 (1/2")	775.0	784.0	19100	187.37	20300	199.14	198	>3.50	028
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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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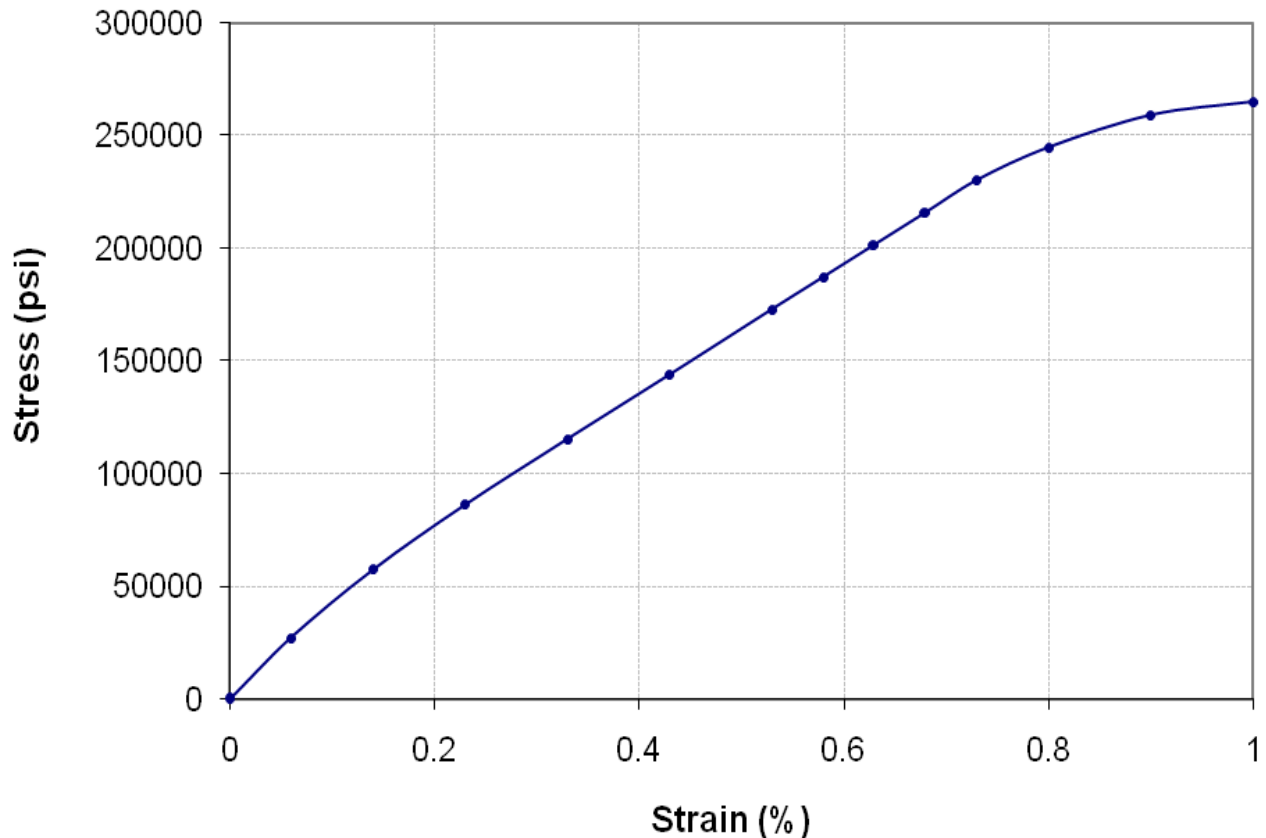
To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32453** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

Graph (Page – 2/4)

Stress Strain Relation -- Specimen No. W 1 (Coil #017)



I/C Testing Laboratories
UET Lahore, Pakistan.

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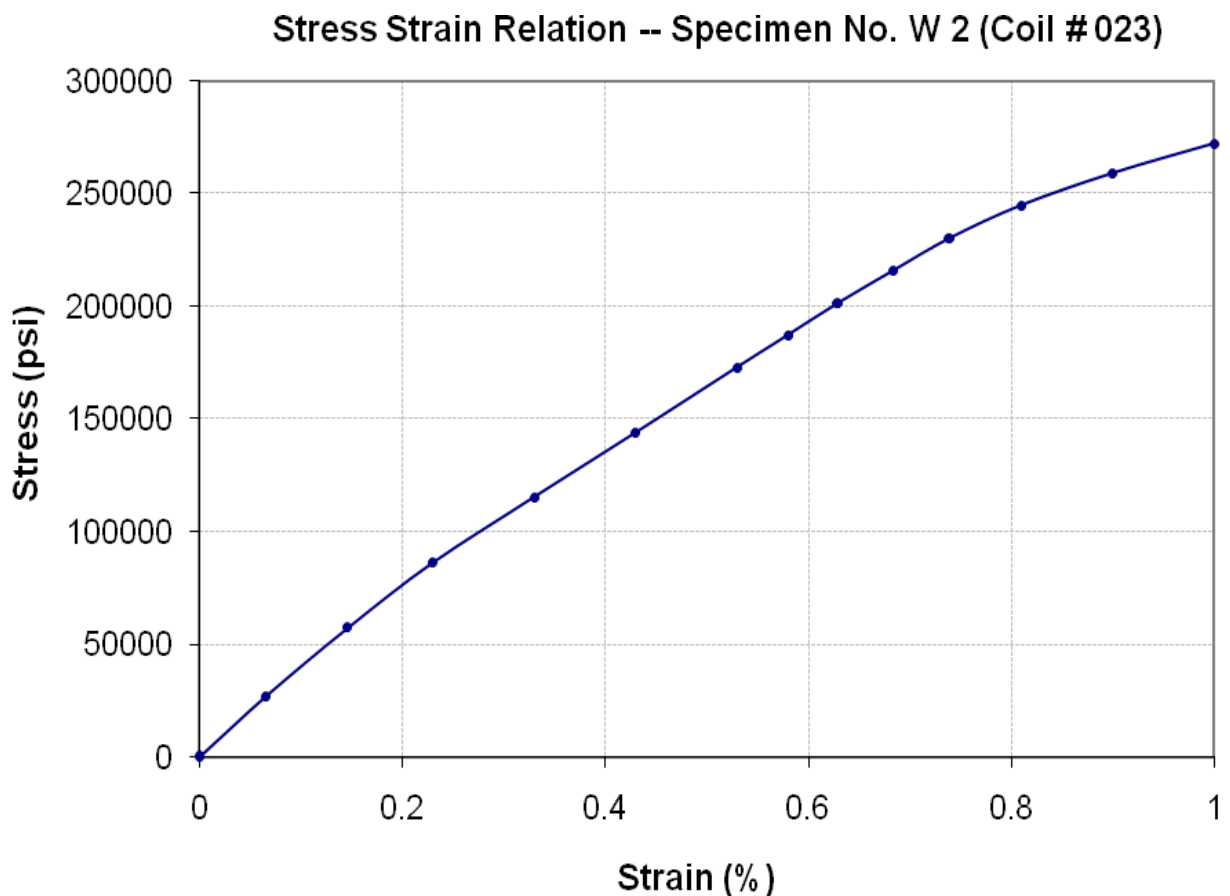
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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32453** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

Graph (Page – 3/4)



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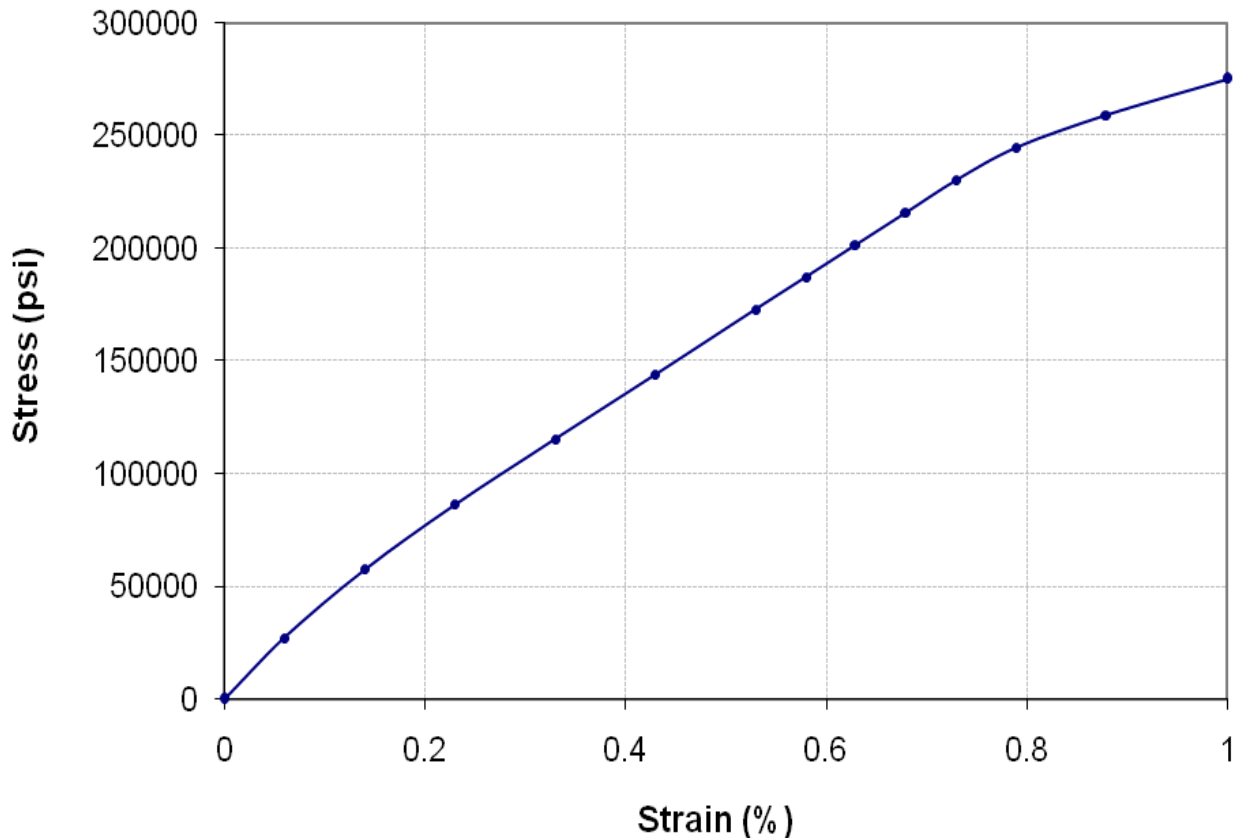
To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32453** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

Graph (Page – 4/4)

Stress Strain Relation -- Specimen No. W 3 (Coil #028)



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
 Swat Motorway Project

Reference # CED/TFL **32454** (Dr. Qasim Khan)
 Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
 Dated: 14-01-2019

Tension Test Report (Page – 1/4)

Date of Test 18-01-2019
 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	17300	169.71	19500	191.30	199	>3.50	003
2	12.70 (1/2")	775.0	795.0	18500	181.49	20600	202.09	198	>3.50	007
3	12.70 (1/2")	775.0	784.0	19200	188.35	20100	197.18	199	>3.50	012
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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.

Note:

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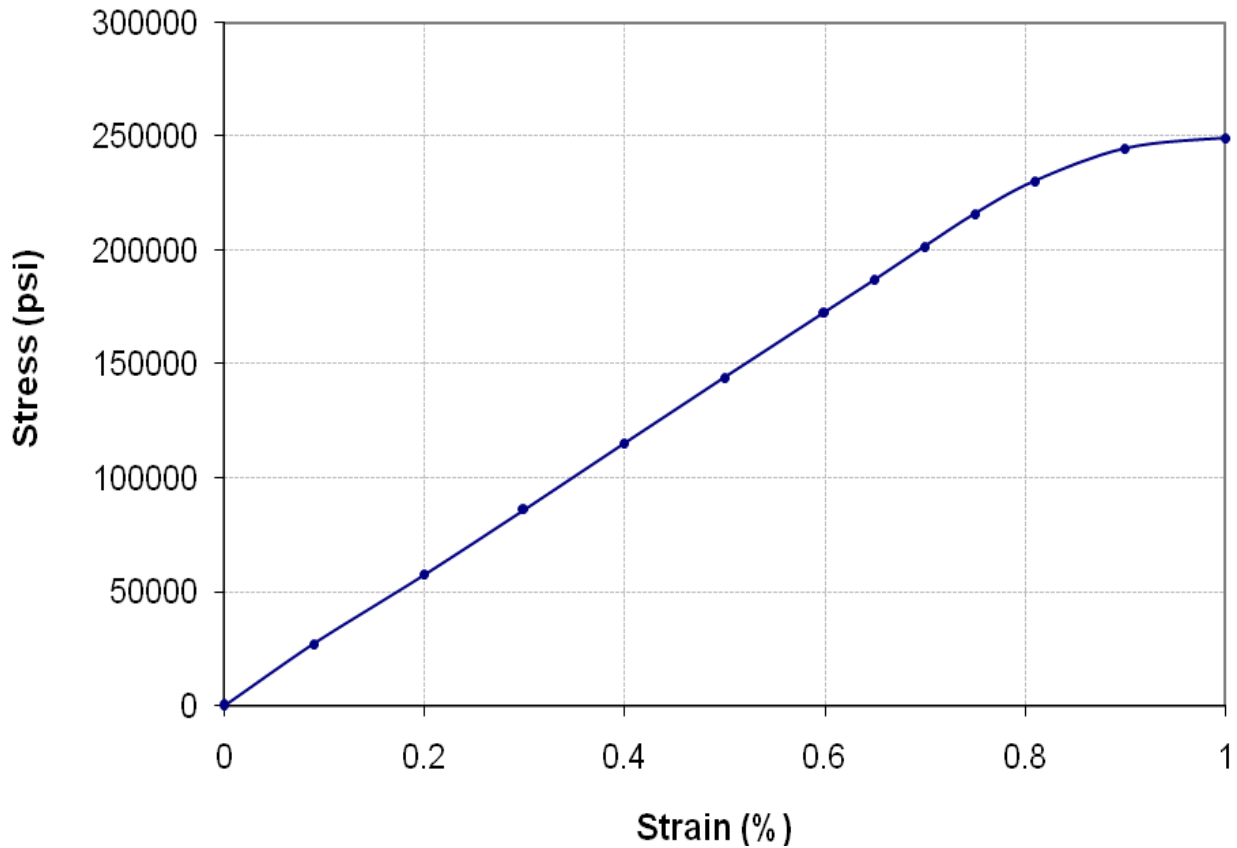
To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32454** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

Graph (Page – 2/4)

Stress Strain Relation -- Specimen No. W 1 (Coil # 003)



I/C Testing Laboratories
UET Lahore, Pakistan.

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

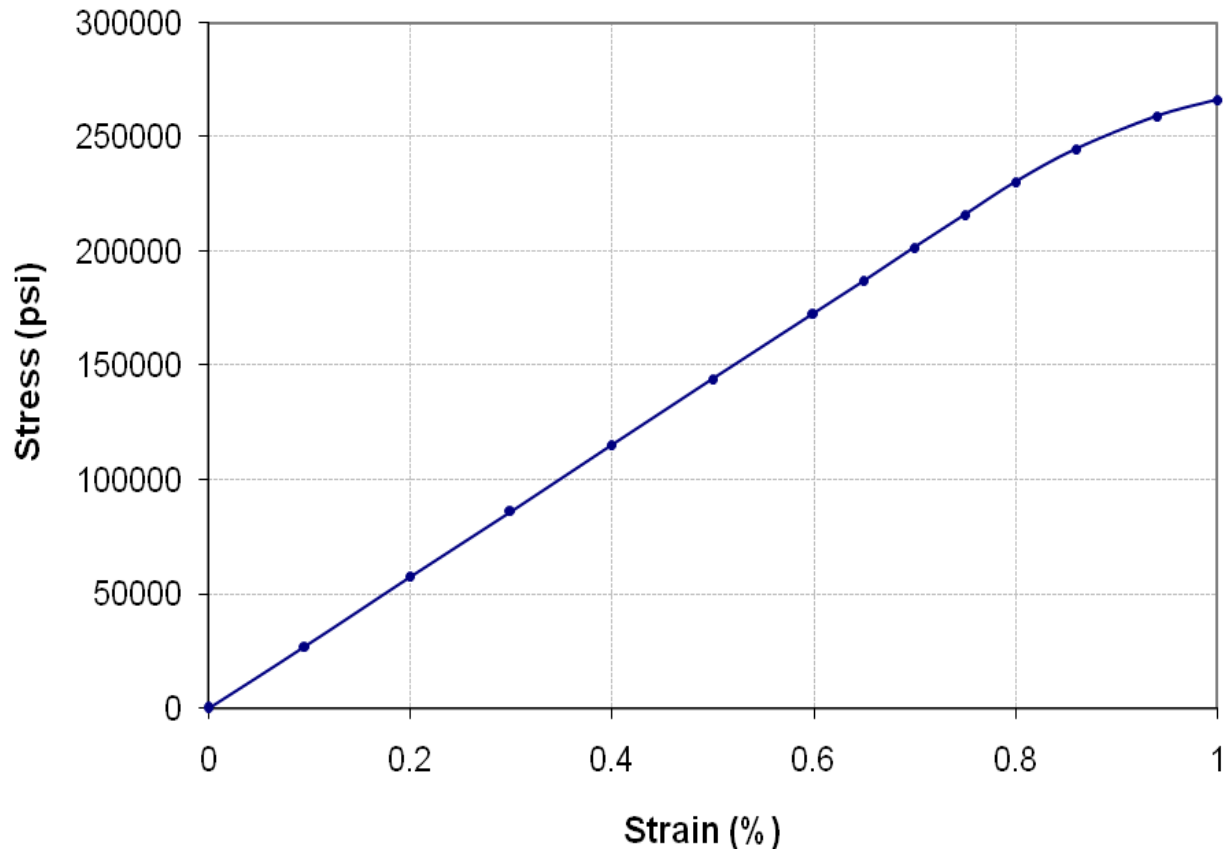
To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32454** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

Graph (Page – 3/4)

Stress Strain Relation -- Specimen No. W 2 (Coil # 007)



I/C Testing Laboratories
UET Lahore, Pakistan.

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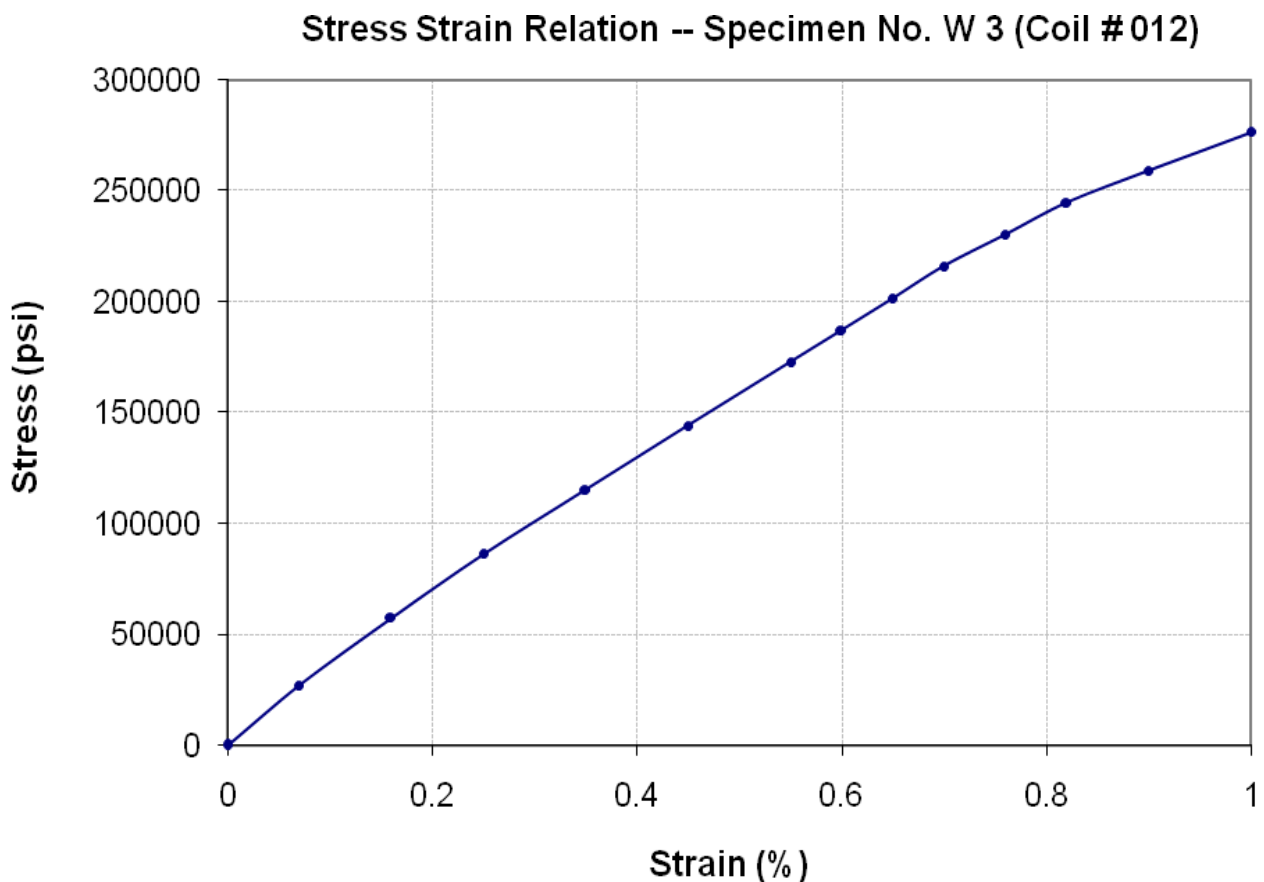
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Chief Resident Engineer
Osmani & Company
Swat Motorway Project

Reference # CED/TFL **32454** (Dr. Qasim Khan)
Reference of the request letter # 264/CRE/QAT/SMP/2018

Dated: 16-01-2019
Dated: 14-01-2019

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,
Project Manager
Designmen Consulting Engineers (Pvt) Ltd
Re-Construction of Chatta Suspension Bridge Kotli AJ&K (Zafar Builders & Contractors)

Reference # CED/TFL **32457** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 17-01-2019
Dated: 17-01-2019

Tension Test Report (Page – 1/1)

Date of Test 18-01-2019
Gauge length -----
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load		Remarks / Coil No.
	(mm)	(kg/m)	(kg)	(kN)	
1	18	12.80	18500	181.49	
2	18	12.84	21500	210.92	
3	25	23.67	36600	359.05	
4	25	23.65	36100	354.14	
-	-	-	-		
Only four sample for 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,
 Resident Engineer
 NESPAK – Zeeruk (Jv)
 CPEC (Western Route), Package-II
 Isakhel

Reference # CED/TFL **32460** (Dr. Qasim Khan)
 Reference of the request letter # RE/NESPAK/P-2/CPEC-WR/667

Dated: 17-01-2019
 Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 18-01-2019
 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	0.378	3	0.376	0.11	0.111	3100	5300	62200	61530	106200	105200	1.10	13.8	
2	0.371	3	0.373	0.11	0.109	3100	5100	62200	62640	102200	103100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Site Engineer
 Descon Engineering Limited
 Establishment of Duplex Houses and Sports Complex
 (New Housing Colony Nestle Sheikhpura Factory)

Reference # CED/TFL **32461** (Dr. Qasim Khan)
 Reference of the request letter # 10-TP.2018

Dated: 17-01-2019
 Dated: 15-01-2019

Tension Test Report (Page -1/1)

Date of Test 18-01-2019
 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	0.370	0.11	0.107	4300	5000	86200	88230	100200	102600	0.75	9.4	
2	0.364	3	0.369	0.11	0.107	3700	4650	74200	76130	93200	95700	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 Laboratories
UET Lahore, Pakistan.

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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 Boundary Wall for Regional Distribution Office Gujrat)

Reference # CED/TFL **32462** (Dr. Qasim Khan)
Reference of the request letter # CC/60/B.W/Gujrat

Dated: 17-01-2019
Dated: 17-01-2019

Tension Test Report (Page -1/1)

Date of Test 18-01-2019
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	0.374	3/8	0.374	0.11	0.110	4000	5100	80200	80190	102200	102300	0.90	11.3	
2	0.391	3/8	0.382	0.11	0.115	4000	5200	80200	76780	104200	99900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
 Resident Engineer
 NESPAK
 Construction of UET Lahore, Narowal Campus at Narowal Phase-II

Reference # CED/TFL **32463** (Dr. Qasim Khan)
 Reference of the request letter # 3854/13/SA/07/480

Dated: 17-01-2019
 Dated: 17-01-2019

Tension Test Report (Page -1/1)

Date of Test 18-01-2019
 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	0.378	3/8	0.376	0.11	0.111	3350	5600	67200	66490	112300	111200	1.00	12.5	
2	0.372	3/8	0.373	0.11	0.109	3300	5500	66200	66460	110200	110800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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
 PEPAC
 Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,
 District Kasur (Package-H) Lot no. 5

Reference # CED/TFL **32464** (Dr. Qasim Khan)
 Reference of the request letter # RE/PEPAC/WWC-K/H71

Dated: 17-01-2019
 Dated: 17-01-2019

Tension Test Report (Page -1/2)

Date of Test 18-01-2019
 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	0.371	3/8	0.373	0.11	0.109	3400	5100	68200	68710	102200	103100	1.10	13.8	
2	0.369	3/8	0.372	0.11	0.109	3400	5100	68200	69060	102200	103600	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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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
 PEPAC
 Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,
 District Kasur (Package-H) Lot no. 3

Reference # CED/TFL **32464** (Dr. Qasim Khan)
 Reference of the request letter # RE/PEPAC/WWC-K/H69

Dated: 17-01-2019
 Dated: 17-01-2019

Tension Test Report (Page -2/2)

Date of Test 18-01-2019
 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	4200	5000	84200	84570	100200	100700	0.80	10.0	
2	0.370	3/8	0.372	0.11	0.109	3600	5400	72200	73020	108200	109600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,
M/S Stylers International (Pvt) Ltd
20km Ferozpur Road, Lahore

Reference # CED/TFL **32465** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 18-01-2019

Dated: 18-01-2019

Tension Test Report (Page -1/1)

Date of Test 18-01-2019
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	0.438	10	10.28	0.11	0.129	4800	6050	96200	82190	121300	103600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples