



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

To,
 Coordinator/ Secretary
 Lahore Diocesan Board of Education
 Cathedral School No. 4, 1-P Model Town Ext Lahore

Reference # CED/TFL **32484** (Dr. Usman Akmal)
 Reference of the request letter # COORD/124/41/BLDG

Dated: 23-01-2019
 Dated: 22-01-2019

Tension Test Report (Page -1/1)

Date of Test 24-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.364	3/8	0.369	0.11	0.107	3400	4900	68200	69980	98200	100900	1.30	16.3	
2	0.367	3/8	0.371	0.11	0.108	3600	5000	72200	73490	100200	102100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia 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
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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 **32458** (Dr. Usman Akmal)
 Reference of the request letter # Nil

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

Tension Test Report (Page – 1/1)

Date of Test 24-01-2019
 Gauge length 2 inches
 Description Steel Girder Steel Strip Tensile Test as per AST A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	3x6	24.40x3.55	86.62	3700	5050	419.04	571.93	0.60	30.00	
2	3x6	24.40x3.55	86.62	3600	5000	407.71	566.27	0.50	25.00	
3	4x8	24.00x6.40	153.60	5700	8900	364.04	568.42	0.60	30.00	
4	4x8	24.00x6.40	153.60	5900	9100	376.82	581.19	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four 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

Ref: CED/TFL/01/32475

Dated: 21-01-2019

To,
M/S ZHN Contracting Corporation (SMC-Private) Limited
Lahore

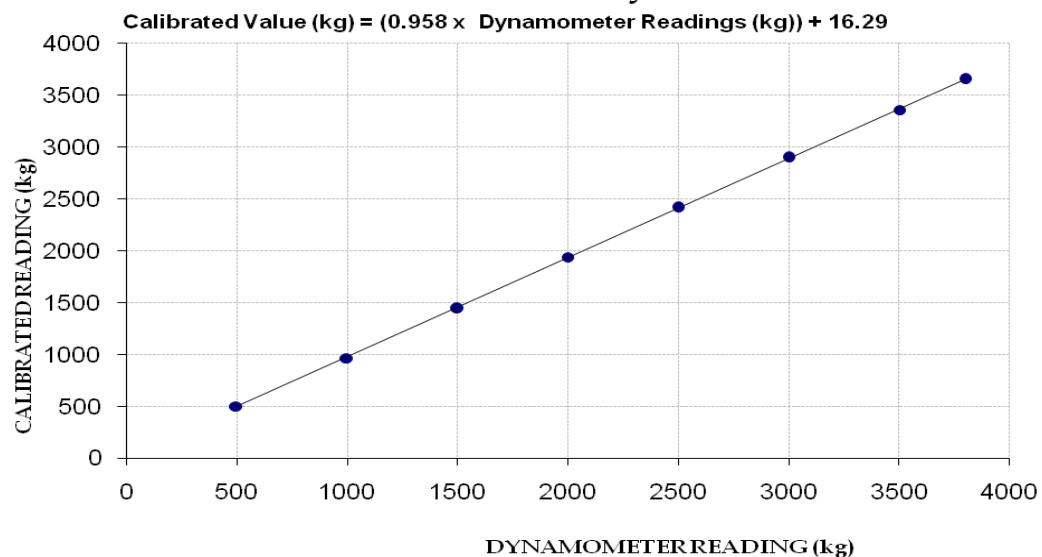
Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/01/32475)

Ref: Your letter No. ZHN/001/2019, dated: 21/01/2019 on the subject cited above. One Dynamometer (Dillon, No. D46288, USA) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 4000 (kg)
Calibrated Range : Zero - 3800 (kg)

Dynamometer Readings (kg)	500	1000	1500	2000	2500	3000	3500	3800	
Calibrated Readings	(kN)	4.92	9.47	14.17	19.02	23.72	28.45	32.95	35.87
	(kg)	502	965	1444	1939	2418	2900	3358	3656

Calibration Curve for Dynamometer



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,
M/S Defence Housing Authority.
Lahore Cantt
(Const. of Mosque at Sector-H DHA Ph-VI)(M/s Faiz-e-Nazar)

Reference # CED/TFL **32483** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/411/429

Dated: 23-01-2019
Dated: 17-01-2019

Tension Test Report (Page -1/1)

Date of Test 24-01-2019
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	0.371	3	0.372	0.11	0.109	3500	5200	70200	70840	104200	105300	0.90	11.3	Kamran Steel
2	0.379	3	0.376	0.11	0.111	3400	5200	68200	67340	104200	103000	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.

Note:

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Coordinator/ Secretary
 Lahore Diocesan Board of Education
 Cathedral School No. 4, 1-P Model Town Ext Lahore

Reference # CED/TFL **32484** (Dr. Usman Akmal)
 Reference of the request letter # COORD/124/41/BLDG

Dated: 23-01-2019
 Dated: 22-01-2019

Tension Test Report (Page -1/1)

Date of Test 24-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.364	3/8	0.369	0.11	0.107	3400	4900	68200	69980	98200	100900	1.30	16.3	
2	0.367	3/8	0.371	0.11	0.108	3600	5000	72200	73490	100200	102100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
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

Ref: CED/TFL/01/32485

Dated: 23-01-19

To
Resident Engineer
NESPAK
Dualization & Improvement of Old Bannu Road/Domail - Khurram Road Project (P - 01)

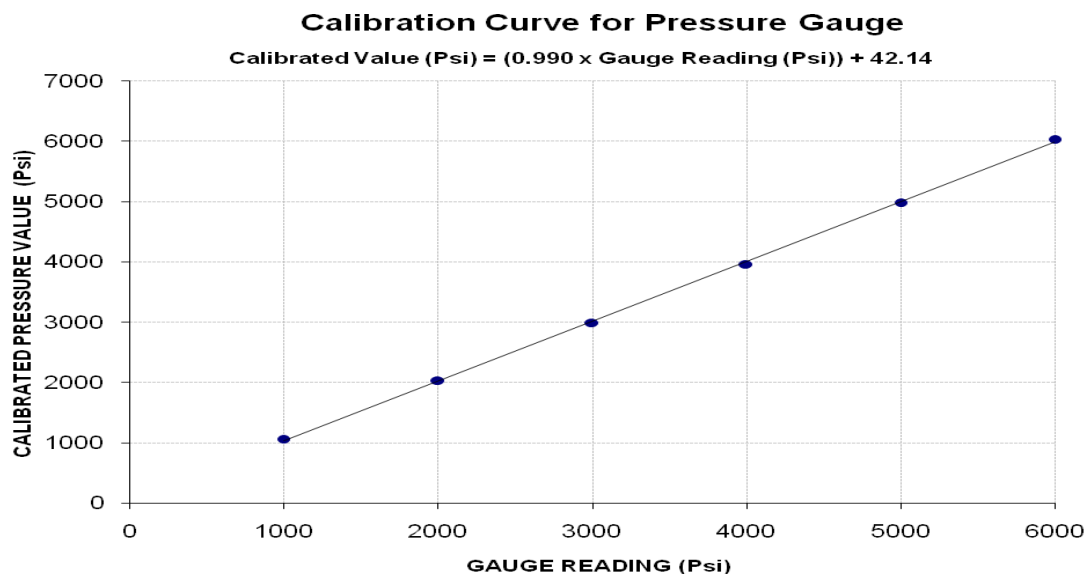
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/01/32485)

Reference to your Letter No. 3968/OBR/P-01/RE/KU/134, dated: 19/01/2019 on the subject cited above. One Pressure Gauge (EN837-1) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 15000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000
Calibrated Load (kg)	14800	28300	41600	55100	69400	84000
Calibrated Pressure (Psi)	1063.13	2032.88	2988.27	3958.02	4985.23	6034.00

The Ram Area of Calibration = 198 cm²



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,
M/S Precast Building System
Lahore

Reference # CED/TFL **32487** (Dr. Qasim Khan)
Reference of the request letter # P-4(a)/03/2019

Dated: 23-01-2019

Dated: 21-01-2019

Tension Test Report (Page – 1/3)

Date of Test 24-01-2019
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	11.11 (7/16")	582.0	607.0	12100	118.70	14500	142.25	>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

To,
M/S Precast Building System
Lahore

Reference # CED/TFL **32487** (Dr. Qasim Khan)
Reference of the request letter # P-4(A)/02/2019

Dated: 23-01-2019

Dated: 21-01-2019

Tension Test Report (Page -2/3)

Date of Test 24-01-2019
Gauge length 2 inches
Description M.S Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.153	5	4.98	-----	19.5	1200	1500	605	756	0.2	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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

Ref: CED/TFL/01/32487

Dated: 23-01-2019

To,
M/S Precast Building System
Lahore

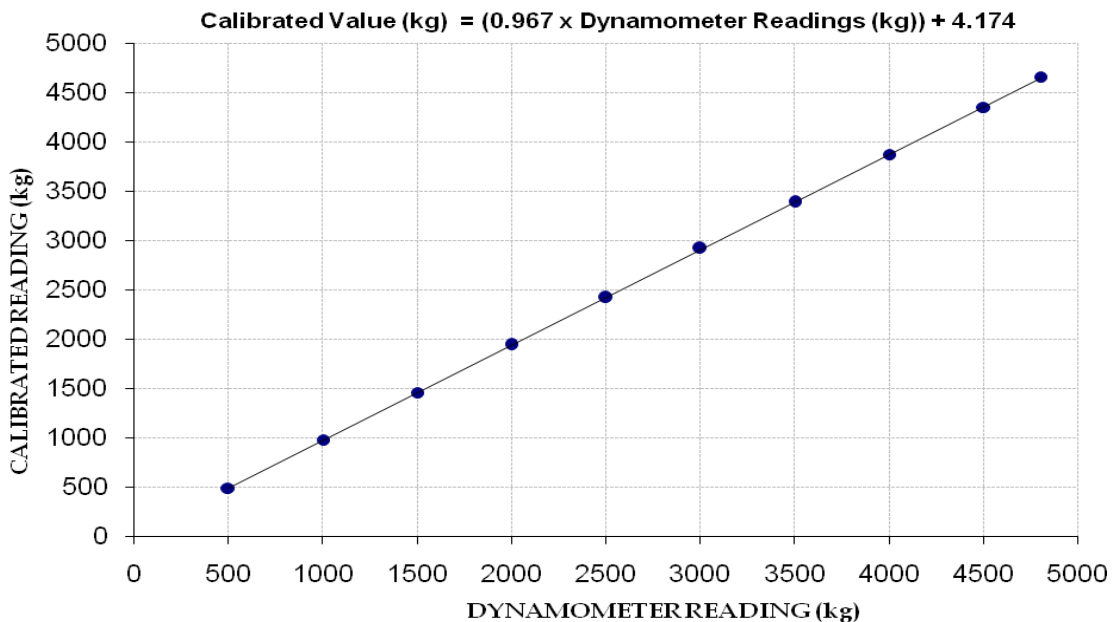
Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/01/32487) (Page -3/3)

Ref: Your letter No. P-4(A)/01/2019, dated: 21/01/2019 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5000 (kg)
Calibrated Range : Zero - 4800 (kg)

Dynamometer Readings (kg)	500	1000	1500	2000	2500	3000	3500	4000	4500	4800	
Calibrated Readings	(kN)	4.77	9.57	14.26	19.01	23.72	28.62	33.21	37.95	42.69	45.67
	(kg)	486	976	1454	1938	2418	2917	3385	3868	4351	4655

Calibration Curve for Dynamometer



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
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore
 (FF Steel)

Reference # CED/TFL **32488** (Dr. Usman Akmal)

Dated: 23-01-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/761

Dated: 22-01-2019

Tension Test Report (Page -1/1)

Date of Test 24-01-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

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	0.371	10	9.47	0.11	0.109	3600	5000	72200	72670	100200	101000	1.20	15.0	
2	0.369	10	9.44	0.11	0.109	3400	4700	68200	69020	94200	95500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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
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To,
DCRE / RE-I
Zeeruk International (Pvct) Ltd
Lahore Sialkot Motorway Project

Reference # CED/TFL **32490** (Dr. Usman Akmal)
Reference of the request letter # LSM/RE-1/2018/627

Dated: 23-01-2019
Dated: 23-01-2019

Tension Test Report (Page – 1/2)

Date of Test 24-01-2019
Gauge length -----
Description Galvanized Chain Link Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	2.70	280	2.75	
2	3.10	280	2.75	
3	2.70	280	2.75	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Three Samples 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

To,
DCRE / RE-I
Zeeruk International (Pvct) Ltd
Lahore Sialkot Motorway Project

Reference # CED/TFL **32490** (Dr. Usman Akmal)
Reference of the request letter # LSM/RE-1/2018/627

Dated: 23-01-2019
Dated: 23-01-2019

Tension Test Report (Page – 2/2)

Date of Test 24-01-2019

Gauge length -----

Description Galvanized 2 Stands Tension Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.40	760	7.46	
2	3.40	780	7.65	
3	3.40	800	7.85	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Three Samples for Test				

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Ittefaq Building Solutions Pvt Ltd
Lahore
(Barrett Hodgson University Toba Tek Singh)

Reference # CED/TFL **32491** (Dr. Usman Akmal)
Reference of the request letter # IBS/BHU/ST02

Dated: 23-01-2019
Dated: 23-01-2019

Tension Test Report (Page -1/1)

Date of Test 24-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.401	10	9.84	0.11	0.118	4700	5750	94200	87920	115300	107600	1.00	12.5	1864
2	0.419	10	10.06	0.11	0.123	4400	6000	88200	78770	120300	107500	1.00	12.5	492
3	0.370	10	9.46	0.11	0.109	4000	4900	80200	80980	98200	99200	0.80	10.0	2190
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: only three samples for tensile and three samples for bend test

Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Amad Anwar & Partners
 Construction of Business Hub on Commercial Broadway Phase-VIII
 (DHA)(M/s Kingcrete Builders)

Reference # CED/TFL **32496** (Dr. Qasim Khan) Dated: 24-01-2019
 Reference of the request letter # 410/Business Hub/Ph-VIII/M&F Dated: 24-01-2019

Tension Test Report (Page – 1/2)

Date of Test 24-01-2019
 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	777.0	19300	189.33	20400	200.12	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

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

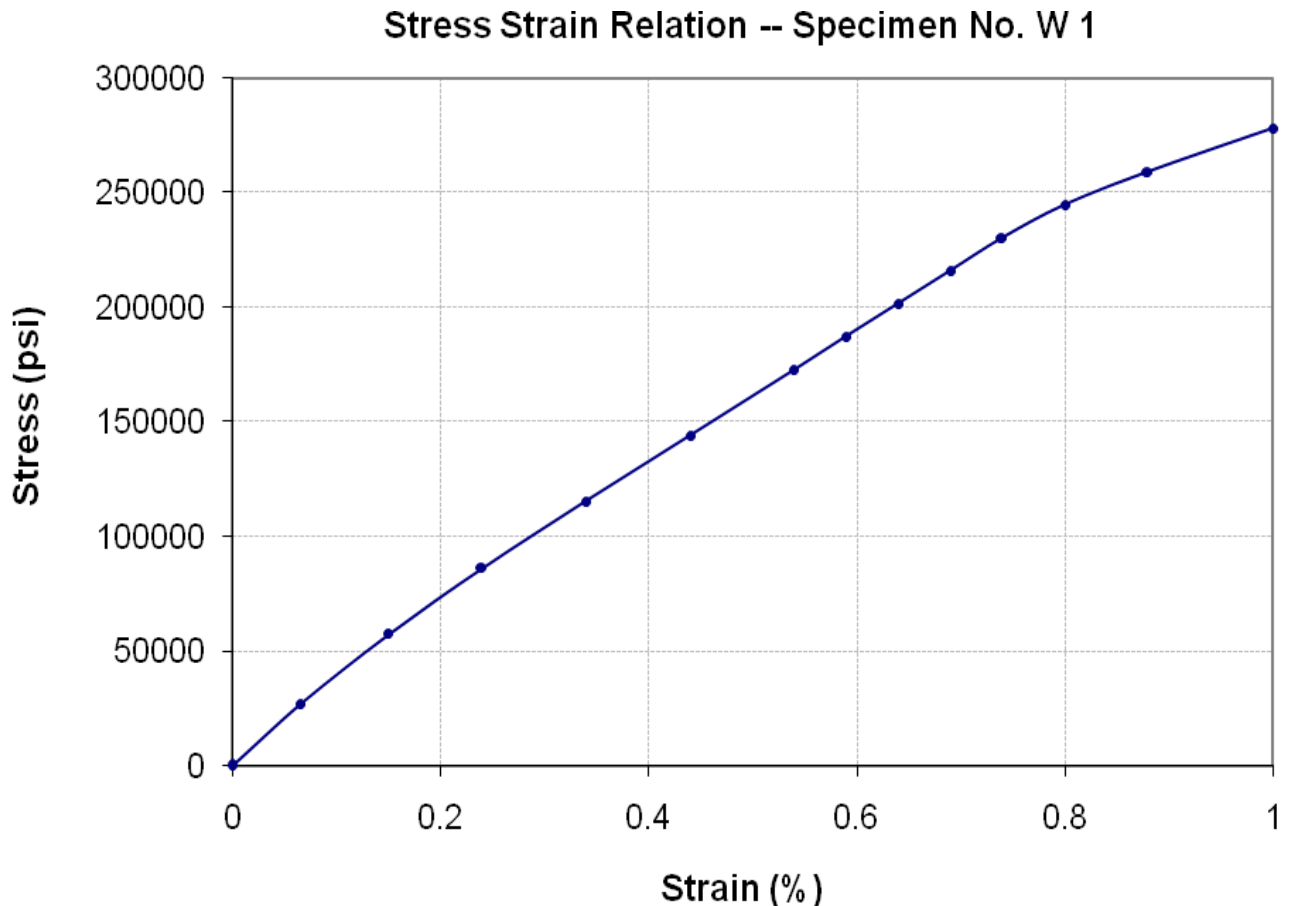


STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Amad Anwar & Partners
Construction of Business Hub on Commercial Broadway Phase-VIII
(DHA)(M/s Kingcrete Builders)

Reference # CED/TFL **32496** (Dr. Qasim Khan) Dated: 24-01-2019
Reference of the request letter # 410/Business Hub/Ph-VIII/M&F Dated: 24-01-2019

Graph (Page – 2/2)



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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