



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
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Section-III
(Beijing Xinfangsheng Hardware and Alternating Appliance Co. Ltd (China))
Reference # CED/TFL **32874** (Dr. Waseem Abbas) Dated: 19-03-2019
Reference of the request letter # RE/EA/M.P-III/361-2019 Dated: 18-03-2019

Tension Test Report (Page – 1/1)

Date of Test 20-03-2019
Gauge length -----
Description Tension Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	760	7.46	
2	3.20	840	8.24	
3	3.20	760	7.46	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Three Samples for 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 Ittefaq Building Solution (Pvt)
Lahore
(Barrett Hodgson University Toba Tek Singh)

Reference # CED/TFL **32878** (Dr. Qasim Khan)
Reference of the request letter # IBS/BHU/ST10

Dated: 20-03-2019
Dated: 19-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.432	10	10.22	0.11	0.127	4600	5900	92200	79770	118300	102400	1.10	13.8	D-4988
2	0.400	10	9.83	0.11	0.118	4100	5300	82200	76890	106200	99400	1.10	13.8	D-4987
3	0.408	10	9.92	0.11	0.120	4200	5500	84200	77210	110200	101100	1.10	13.8	C-3607
4	0.409	10	9.94	0.11	0.120	4300	5400	86200	78770	108200	99000	0.90	11.3	B-5022
5	0.397	10	9.79	0.11	0.117	3900	5100	78200	73680	102200	96400	1.20	15.0	B-5021

Note: only five samples for tensile and five 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														
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,
M/s Creative Construction
Gulberg-III, Lahore
(MCB Kakki Noe Shorkot Jhang

Reference # CED/TFL **32879** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 20-03-2019
Dated: 19-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
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	0.349	3	0.361	0.11	0.102	2600	4100	52100	55930	82200	88200	1.20	15.0	
.	
.	
.	
.	
.	
Note: only one sample for tensile test														
Bend 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
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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 **32880** (Dr. Qasim Khan)
 Reference of the request letter # COORD/124/47/BLDG

Dated: 20-03-2019
 Dated: 19-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
 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	0.375	3/8	0.375	0.11	0.110	3200	4900	64200	63960	98200	98000	1.40	17.5	
2	0.386	3/8	0.380	0.11	0.113	3500	5100	70200	68080	102200	99200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Project Manager
 Izhar Construction (Pvt) Ltd
 Construction of (Ecolean Pakistan Pvt. Ltd Sundar Estate) Lahore

Reference # CED/TFL **32882** (Dr. Qasim Khan)
 Reference of the request letter # ICPL/EC/036

Dated: 20-03-2019
 Dated: 20-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
 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	0.360	3/8	0.367	0.11	0.106	3200	4300	64200	66590	86200	89500	1.20	15.0	
2	0.369	3/8	0.371	0.11	0.108	3600	4600	72200	73210	92200	93600	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 Laboratoires
UET Lahore, Pakistan.

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To,
M/s Fairmay Investments
Gulberg III, Lahore

Reference # CED/TFL **32884** (Dr. Qasim Khan)
Reference of the request letter # 2K Gulberg

Dated: 20-03-2019
Dated: 20-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
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	0.372	3	0.373	0.11	0.109	3100	4800	62200	62490	96200	96800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Sub Divisional Officer
 Buildings Sub Division C.M Sectt ;
 Lahore
 (Provision of Security Arrangement in Chief Minister's Office at 7-Club Road and 90-SQA,
 Lahore)
 Reference # CED/TFL **32885** (Dr. Qasim Khan) Dated: 20-03-2019
 Reference of the request letter # SDO/CMS/669 Dated: 09-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
 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	0.370	3/8	0.372	0.11	0.109	3200	4300	64200	64830	86200	87200	1.40	17.5	
2	0.370	3/8	0.372	0.11	0.109	3100	4300	62200	62810	86200	87200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Resident Engineer –II
 Zeeruk International (Pvt) Ltd
 Lahore – Sialkot Motorway
 (Steel Complex)

Reference # CED/TFL **32886** (Dr. Ali Ahmad)
 Reference of the request letter # LSM/RE-II/St/19/108

Dated: 20-03-2019
 Dated: 19-03-2019

Tension Test Report (Page – 1/4)

Date of Test 21-03-2019
 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)			
1	12.70 (1/2")	775.0	789.0	18000	176.58	19800	194.24	199	>3.50	xx
2	12.70 (1/2")	775.0	782.0	18900	185.41	19900	195.22	199	>3.50	xx
3	12.70 (1/2")	775.0	788.0	18500	181.49	19900	195.22	198	>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

I/C Testing Laboratoires
UET Lahore, Pakistan.

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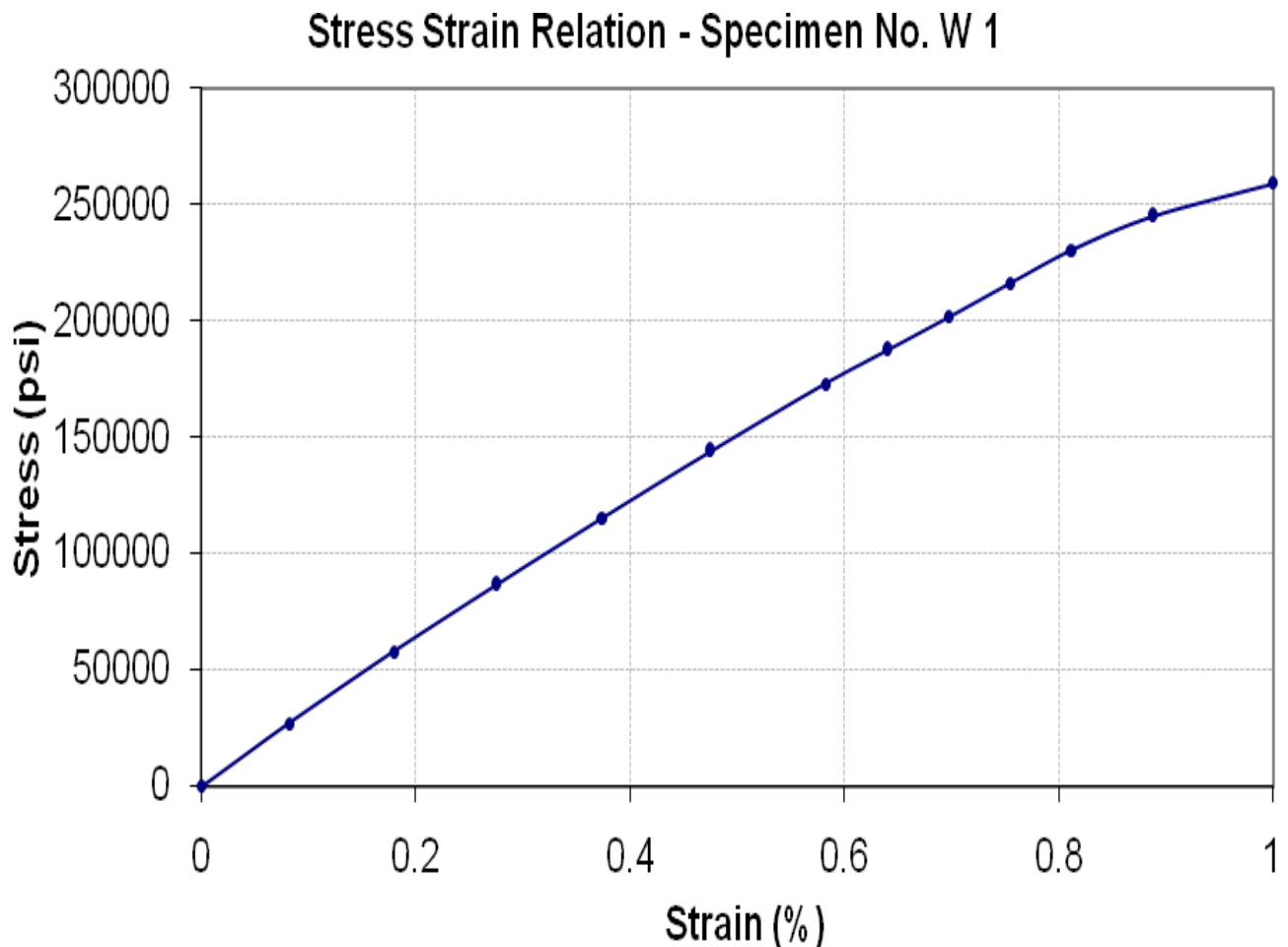
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer –II
Zeeruk International (Pvt) Ltd
Lahore – Sialkot Motorway
(Steel Complex)

Reference # CED/TFL **32886** (Dr. Ali Ahmad)
Reference of the request letter # LSM/RE-II/St/19/108

Dated: 20-03-2019
Dated: 19-03-2019

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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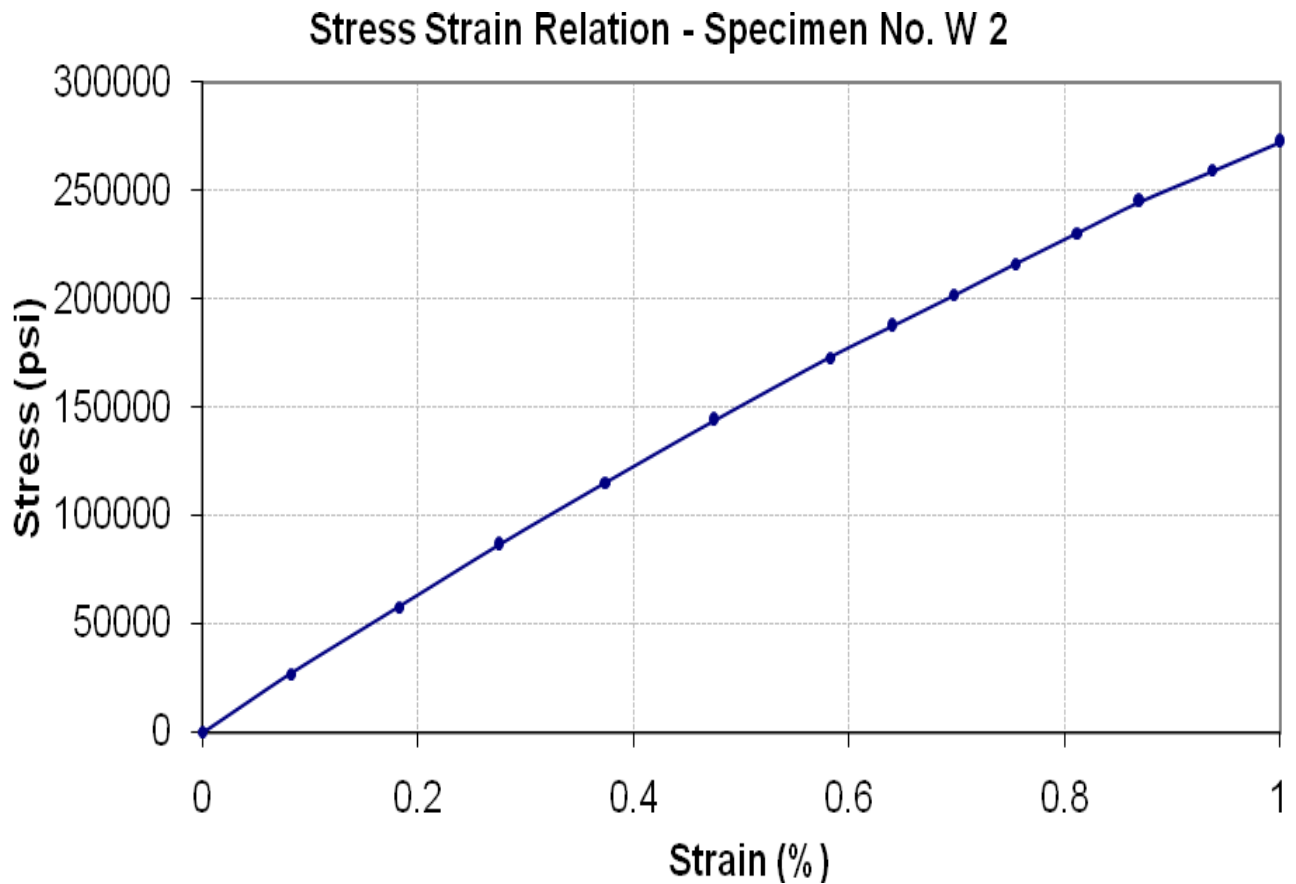
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer –II
Zeeruk International (Pvt) Ltd
Lahore – Sialkot Motorway
(Steel Complex)

Reference # CED/TFL **32886** (Dr. Ali Ahmad)
Reference of the request letter # LSM/RE-II/St/19/108

Dated: 20-03-2019
Dated: 19-03-2019

Graph (Page – 3/4)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer –II
Zeeruk International (Pvt) Ltd
Lahore – Sialkot Motorway
(Steel Complex)

Reference # CED/TFL **32886** (Dr. Ali Ahmad)
Reference of the request letter # LSM/RE-II/St/19/108

Dated: 20-03-2019
Dated: 19-03-2019

Graph (Page – 4/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Project Manager
 Izhar Construction (Pvt) Ltd
 CCBL Ware House & Allied Works Phase-2

Reference # CED/TFL **32887** (Dr. Qasim Khan)
 Reference of the request letter # ICPL/CCBL/LAB/01

Dated: 20-03-2019
 Dated: 20-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
 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	0.372	3	0.373	0.11	0.109	3600	4800	72200	72640	96200	96900	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Engineer
 Tricon Engineers & Co
 Construction of Office Block and Masjid Project at BBL Warehouse

Reference # CED/TFL **32888** (Dr. Qasim Khan)
 Reference of the request letter # TRN/04/BBL/07/18

Dated: 20-03-2019
 Dated: 20-03-2019

Tension Test Report (Page -1/1)

Date of Test 21-03-2019
 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	0.367	3	0.371	0.11	0.108	3300	5100	66200	67400	102200	104200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
DCRE/RE-1R
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project
(Lahore Cables and Engineering)

Reference # CED/TFL **32889** (Dr. Ali Ahmed)
Reference of the request letter # LSMP/RE-1/2019/703

Dated: 20-03-2019
Dated: 20-03-2019

Tension Test Report (Page – 1/2)

Date of Test 21-03-2019
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	774.0	18700	183.45	19900	195.22	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 Laboratoires
UET Lahore, Pakistan.

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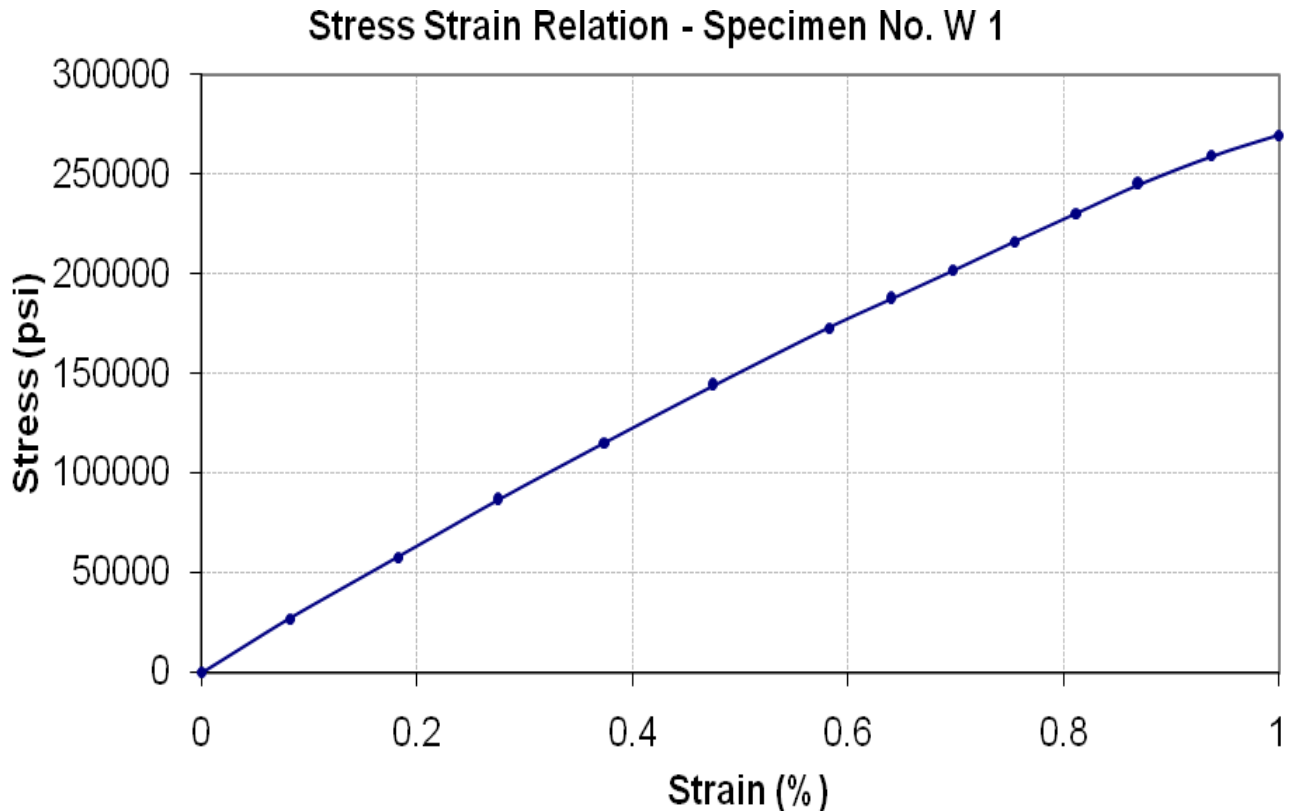
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To,
DCRE/RE-1R
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project
(Lahore Cables and Engineering)

Reference # CED/TFL **32889** (Dr. Ali Ahmed)
Reference of the request letter # LSMP/RE-1/2019/703

Dated: 20-03-2019
Dated: 20-03-2019

Graph (Page – 2/2)



I/C Testing Laboratories
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



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To,
Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Section-III
(Beijing Xinfangsheng Hardware and Alternating Appliance Co. Ltd (China))
Reference # CED/TFL **32890** (Dr. Qasim Khan) Dated: 20-03-2019
Reference of the request letter # RE/EA/M.P-III/366-2019 Dated: 20-03-2019

Tension Test Report (Page – 1/1)

Date of Test 21-03-2019
Gauge length -----
Description Tension Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.20	9.20	
2	3.20	8.89	
3	3.20	8.93	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Three Samples for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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