



**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  
 Vision Developers (Pvt) Ltd  
 The National School Barki Road Project Lahore

Reference # CED/TFL **35265** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 25-08-2020  
 Dated: 24-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 26-08-2020  
 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 <sup>2</sup> )		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	0.376	3/8	0.375	0.11	0.110	3200	4500	64200	63900	90200	89900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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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



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To,  
 Assistant Executive Engineer  
 Pakistan Railways  
 Faisalabad

(1) Up-Gradation of Class-III Un-Manned Level Crossing No. 102 at km 194/4-5 into Class-II Manned Level Crossing between CKJ-SAHW Station on SKO-WZD Section.

(2) Up-Gradation of Class-III Un-Manned Level Crossing No. 80-A at km 158/8-9 into Class-II Manned Level Crossing between SSX-RSE Station on SKO-WZD Section.)

Reference # CED/TFL **35267** (Dr. Ali Ahmed)

Dated: 25-08-2020

Reference of the request letter # W/3/Spl/2020

Dated: 24-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 26-08-2020

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 <sup>2</sup> )		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	4200	5300	84200	87090	106200	109900	0.90	11.3	
2	0.363	3/8	0.369	0.11	0.107	4200	5300	84200	86660	106200	109400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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 Al-Abdullah Constructors (Pvt) Ltd  
Karachi

Reference # CED/TFL **35268** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 25-08-2020

Dated: 24-08-2020

**Tension Test Report** (Page – 1/3)

Date of Test 26-08-2020  
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, GPa	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)			
1	9.53 (3/8")	432.0	436.0	10000	98.10	11100	108.89	199	>3.50	2
1	9.53 (3/8")	432.0	436.0	10200	100.06	11100	108.89	199	>3.50	3
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only two samples for Test</b>										

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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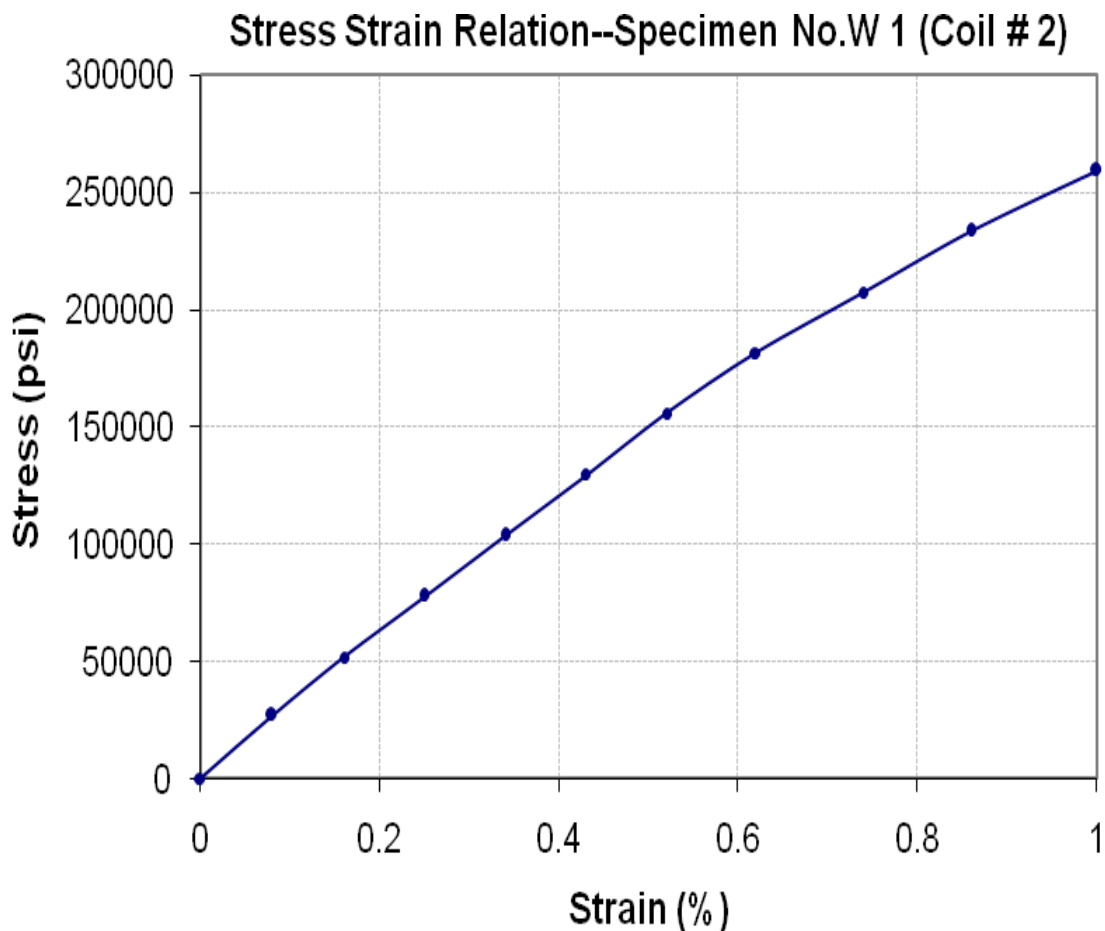
To,  
M/S Al-Abdullah Constructors (Pvt) Ltd  
Karachi

Reference # CED/TFL **35268** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 25-08-2020

Dated: 24-08-2020

**Graph** (Page – 2/3)



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
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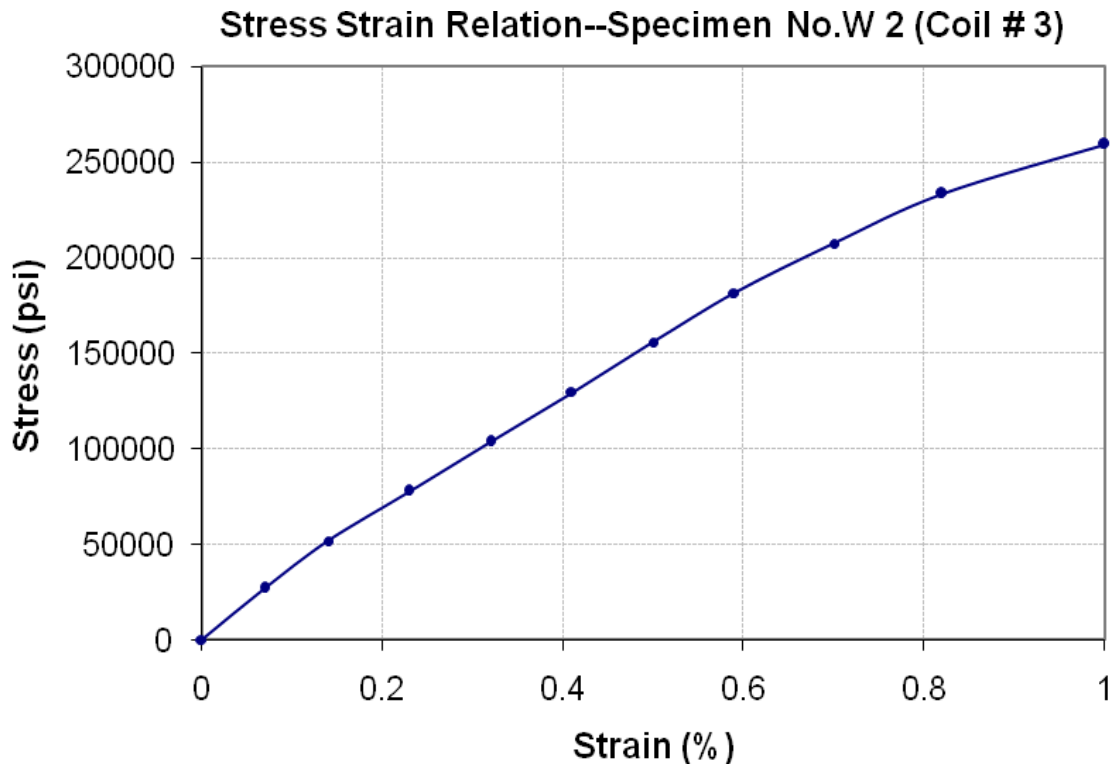
To,  
M/S Al-Abdullah Constructors (Pvt) Ltd  
Karachi

Reference # CED/TFL **35268** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 25-08-2020

Dated: 24-08-2020

**Graph** (Page – 3/3)



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**UET Lahore, Pakistan.**

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

To,  
 Resident Engineer  
 Veosi Integrity & Safety Pakistan (Pvt) Ltd  
 Demolition and Re-Construction of Railway Station at Nankana Sahib Pakistan Railways

Reference # CED/TFL **35269** (Dr. Ali Ahmed)  
 Reference of the request letter # V84-L-ES-47

Dated: 25-08-2020  
 Dated: 25-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 26-08-2020  
 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 <sup>2</sup> )		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	0.364	3	0.369	0.11	0.107	3600	4700	72200	74220	94200	96900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Orbit Housing  
 The Springs, Apartment, Lahore

Reference # CED/TFL **35272** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 26-08-2020  
 Dated: 26-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 26-08-2020  
 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 <sup>2</sup> )		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	0.377	3	0.376	0.11	0.111	2700	4200	54100	53670	84200	83500	1.60	20.0	
2	0.382	3	0.378	0.11	0.112	2800	4200	56200	54900	84200	82400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
 Project Manager  
 Liberty Builders  
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35274** (Dr. Ali Ahmed)  
 Reference of the request letter # ST/UET/20200825

Dated: 26-08-2020  
 Dated:25-08-2020

**Tension Test Report** (Page -1/1)

Date of Test 26-08-2020  
 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 <sup>2</sup> )		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	0.340	3	0.357	0.11	0.100	3100	4300	62200	68340	86200	94800	1.20	15.0	Afco Steel
2	0.377	3	0.375	0.11	0.111	3600	4800	72200	71700	96200	95600	1.00	12.5	
3	0.378	3	0.376	0.11	0.111	3100	4500	62200	61540	90200	89400	1.10	13.8	
4	0.419	3	0.396	0.11	0.123	3600	5300	72200	64420	106200	94900	1.50	18.8	Moiz Steel
5	0.413	3	0.393	0.11	0.121	3500	5300	70200	63590	106200	96300	1.60	20.0	
6	0.418	3	0.395	0.11	0.123	3600	5300	72200	64630	106200	95200	1.50	18.8	
<b>Note: only six samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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