



**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 Ikan Engineering Services (Pvt) Ltd  
Lahore

Reference # CED/TFL **37373** (Dr. M Rizwan Riaz)  
Reference of the request letter # IKAN/ICI/PQR # 05

Dated: 17-11-2021

Dated: 17-11-2021

**Tension Test Report** (Page – 1/2)

Date of Test 23-11-2021

Gauge length 2 inches

Description Welded Metal Steel Strip Tensile and Bend Test  
ASME Sec IX Ed 2019

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(MPa)	(inch)		
1	31x5x300 (2")	20.10x5.00	100.50	4900	478.30	0.60	30.00	Failure at the location other than weld
2		20.00x5.00	100.00	4700	461.07	0.60	30.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
<b>Only two samples for tensile and Four samples for bend test</b>								
<b>Bend Test</b>								
Strip taken from Welded Metal (19x5x300mm) (2") Root Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x5x300mm) (2") Root Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x5x300mm) (2") Face Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x5x300mm) (2") Face Bend Test Through 180° is Satisfactory								

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

Note:

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M/S Ikan Engineering Services (Pvt) Ltd  
Lahore

Reference # CED/TFL **37373** (Dr. M Rizwan Riaz)  
Reference of the request letter # IKAN/ICI/PQR # 06

Dated: 17-11-2021

Dated: 17-11-2021

**Tension Test Report** (Page – 2/2)

Date of Test 23-11-2021

Gauge length 2 inches

Description Welded Metal Steel Strip Tensile and Bend Test  
ASME Sec IX Ed 2019

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(MPa)	(inch)		
1	31x10x300 (5")	21.00x9.15	192.15	11800	602.44	0.50	25.00	Failure at the location other than weld
2		21.10x10.40	219.44	12300	549.87	0.50	25.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
<b>Only two samples for tensile and Four samples for bend test</b>								
<b>Bend Test</b>								
Strip taken from Welded Metal (19x10x300mm) (5") Root Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x10x300mm) (5") Root Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x10x300mm) (5") Face Bend Test Through 180° is Satisfactory								
Strip taken from Welded Metal (19x10x300mm) (5") Face Bend Test Through 180° is Satisfactory								

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To,  
M/S China Gezhouba Group Company Limited  
Pakistan  
Construction of Mohmand Dam Hydropower Project – Contract No. ICB MDHP-01, Construction of Civil Works Including Design, Supply and Installation of Electrical and Mechanical Works and Hydraulic Steel Structures.

Reference # CED/TFL **37382 (Dr. m Rizwan Riaz)**

Dated: 18-11-2021

Reference of the request letter # MDSYS-137-A

Dated: 17-11-2021

**Tension Test Report** (Page – 1/10)

Date of Test 23-11-2021

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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1128.0	25400	249.17	27300	267.81	199	>3.50	PH-02
2	15.24 (0.6")	1102.0	1238.0	25200	247.21	27400	268.79	198	>3.50	
3	15.24 (0.6")	1102.0	1123.0	25400	249.17	27500	269.78	199	>3.50	
4	15.24 (0.6")	1102.0	1124.0	25200	247.21	27500	269.78	199	>3.50	PI-02
5	15.24 (0.6")	1102.0	1127.0	24500	240.35	27400	268.79	199	>3.50	
6	15.24 (0.6")	1102.0	1126.0	24500	240.35	27400	268.79	199	>3.50	
7	15.24 (0.6")	1102.0	1122.0	24900	244.27	27300	267.8	199	>3.50	3971-1
8	15.24 (0.6")	1102.0	1123.0	25200	247.21	27300	267.8	198	>3.50	
9	15.24 (0.6")	1102.0	1128.0	25400	249.17	27300	267.81	199	>3.50	
Only nine 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:

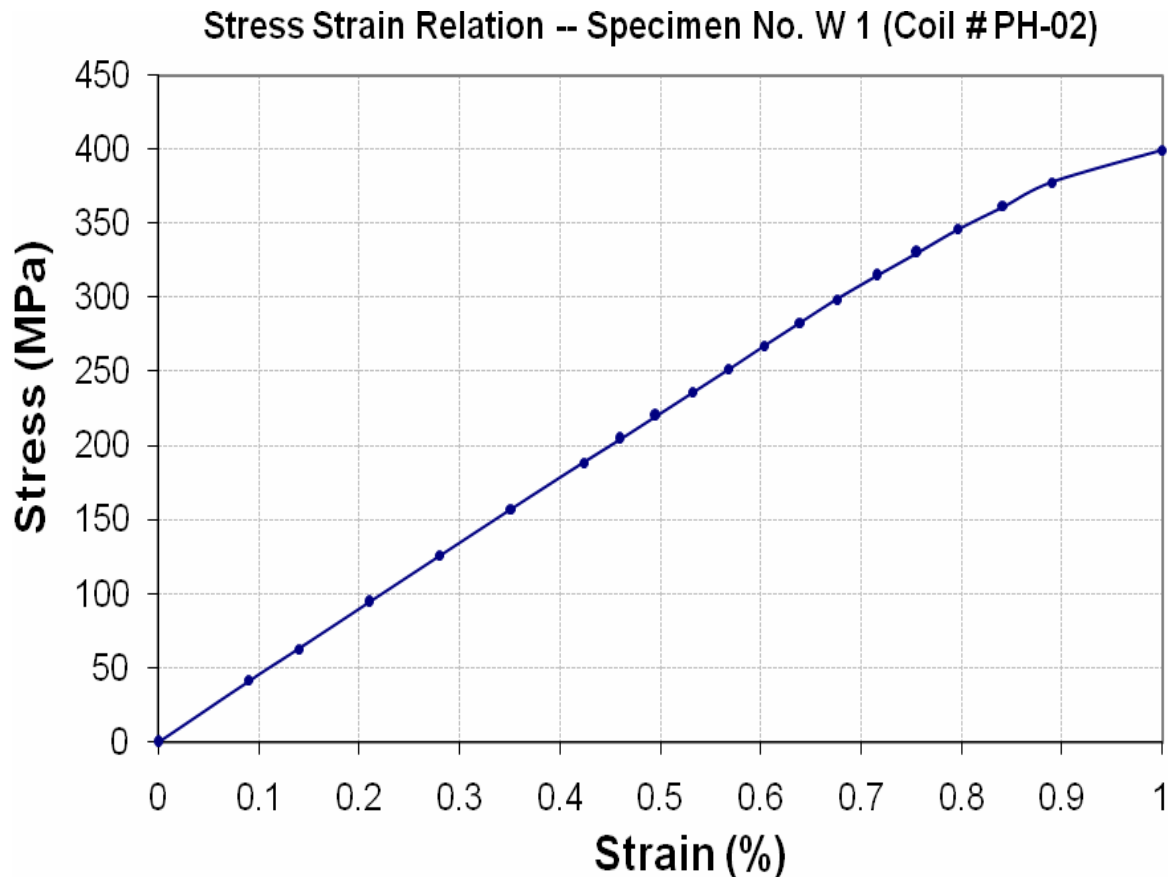
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To,  
M/S China Gezhouba Group Company Limited  
Pakistan  
Construction of Mohmand Dam Hydropower Project – Contract No. ICB MDHP-01,  
Construction of Civil Works Including Design, Supply and Installation of Electrical and  
Mechanical Works and Hydraulic Steel Structures.  
Reference # CED/TFL **37382** (Dr. m Rizwan Riaz) Dated: 18-11-2021  
Reference of the request letter # MDSYS-137-A Dated: 17-11-2021

**Graph** (Page – 2/10)



**I/C Testing Laboratoires**  
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Note:

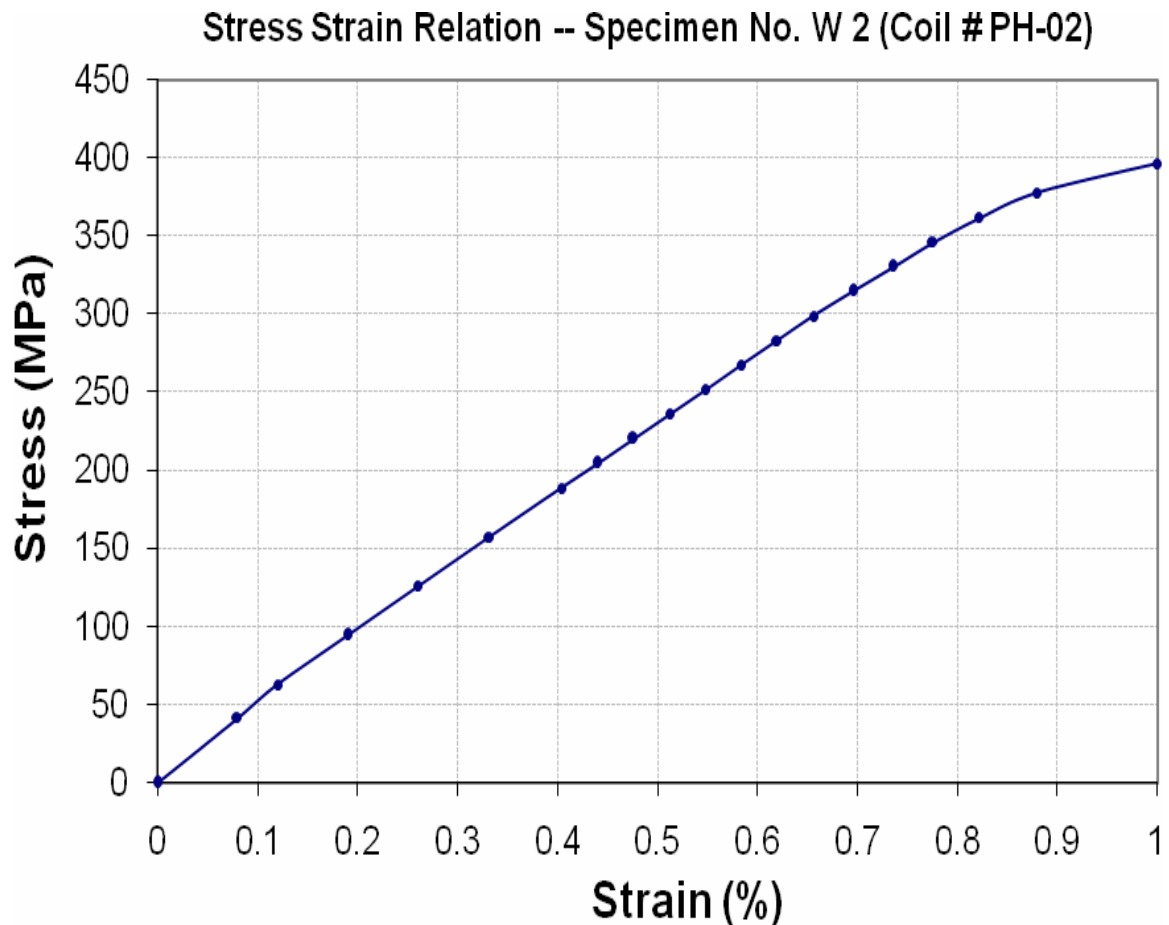
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**Graph** (Page – 3/10)



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Note:

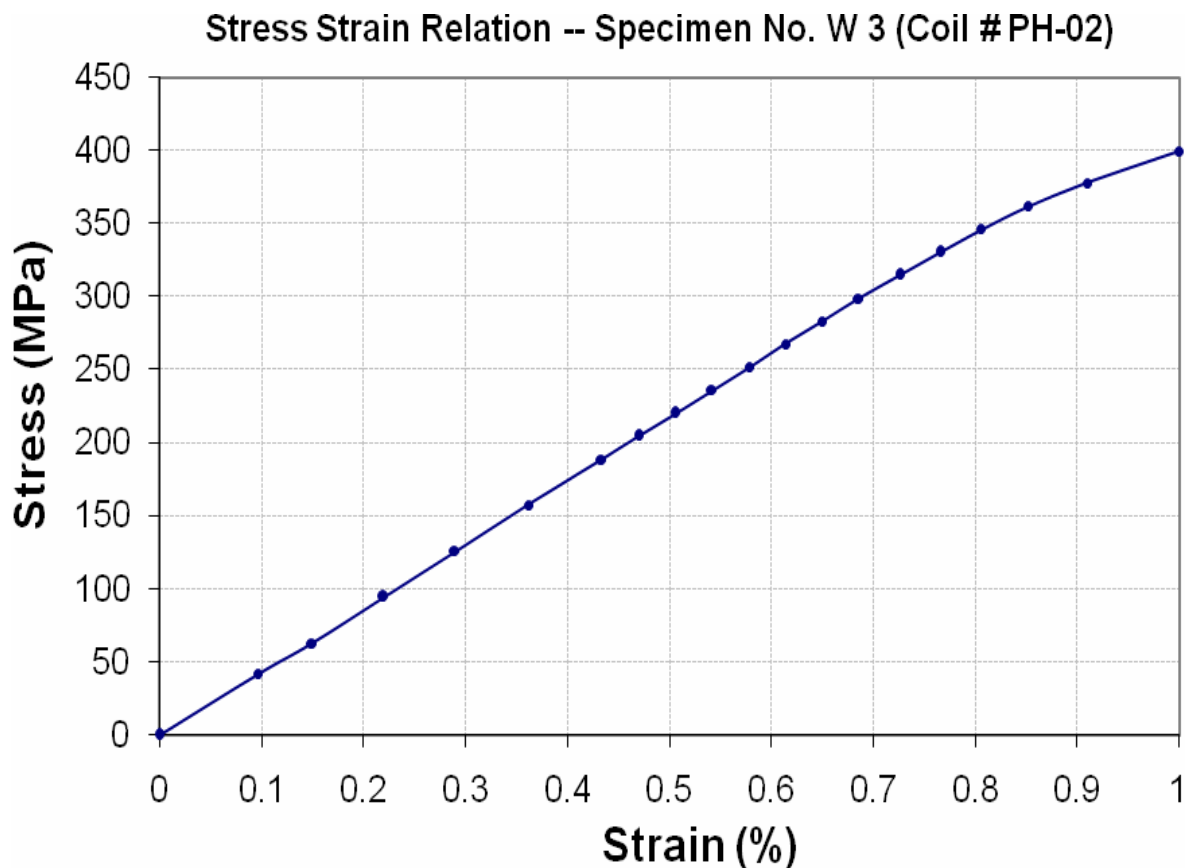
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**Graph** (Page – 4/10)



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Note:

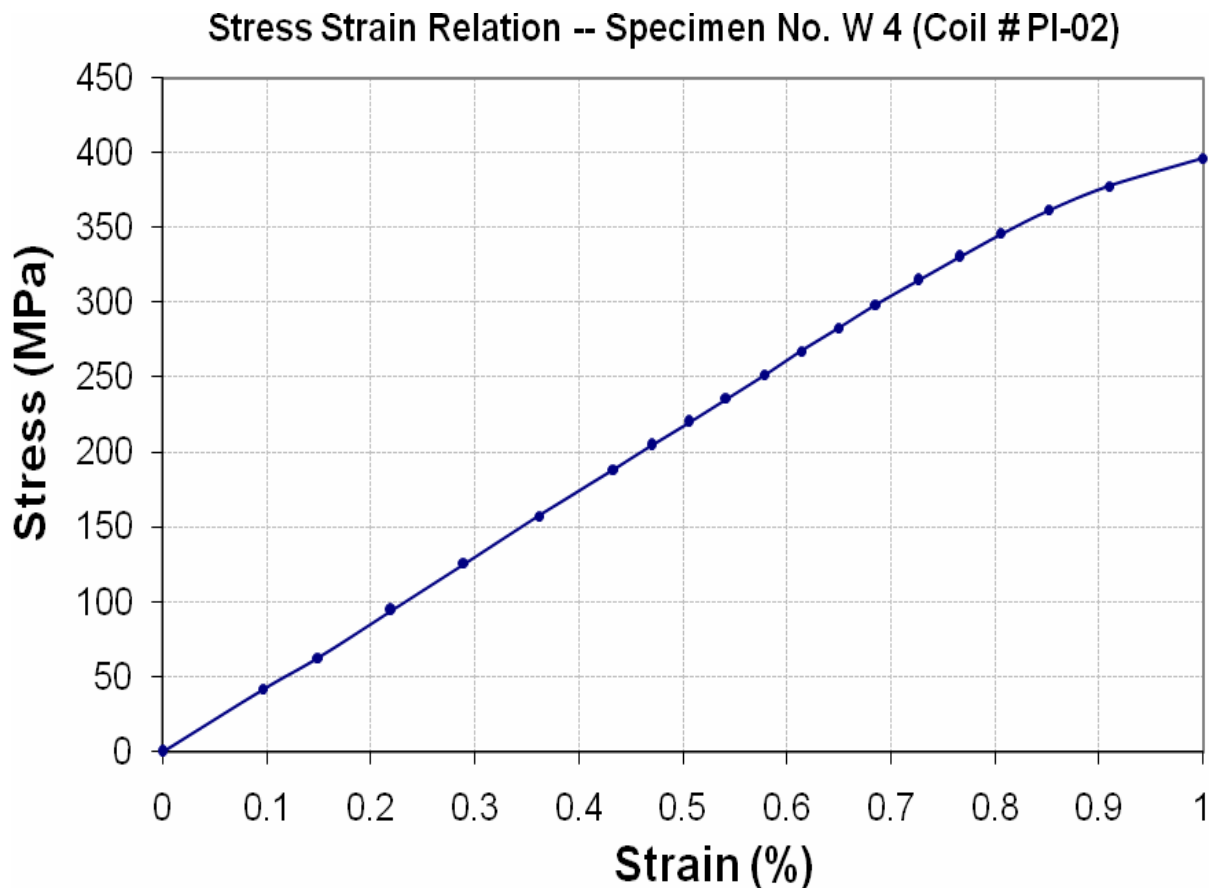
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**Graph** (Page – 5/10)



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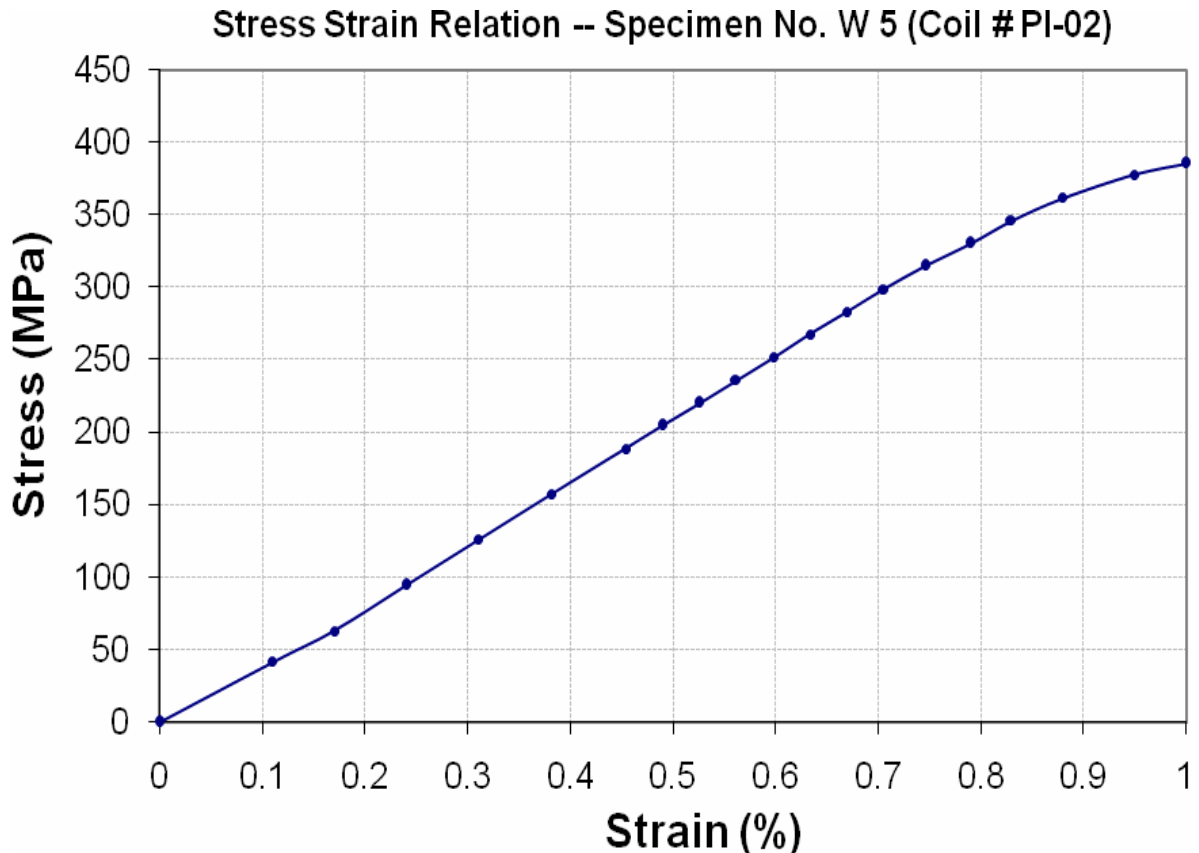
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**Graph** (Page – 6/10)



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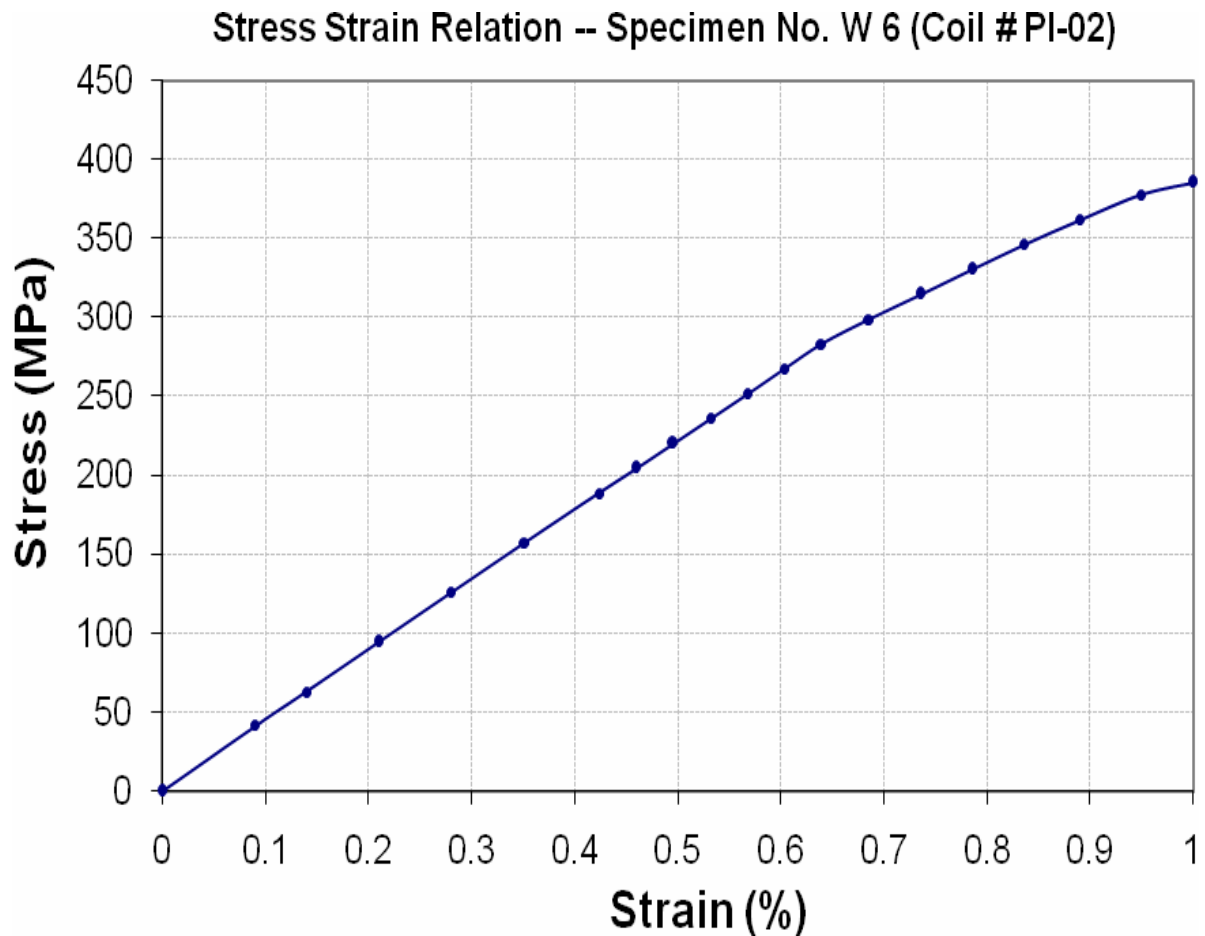




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**Graph** (Page – 7/10)



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

**Note:**

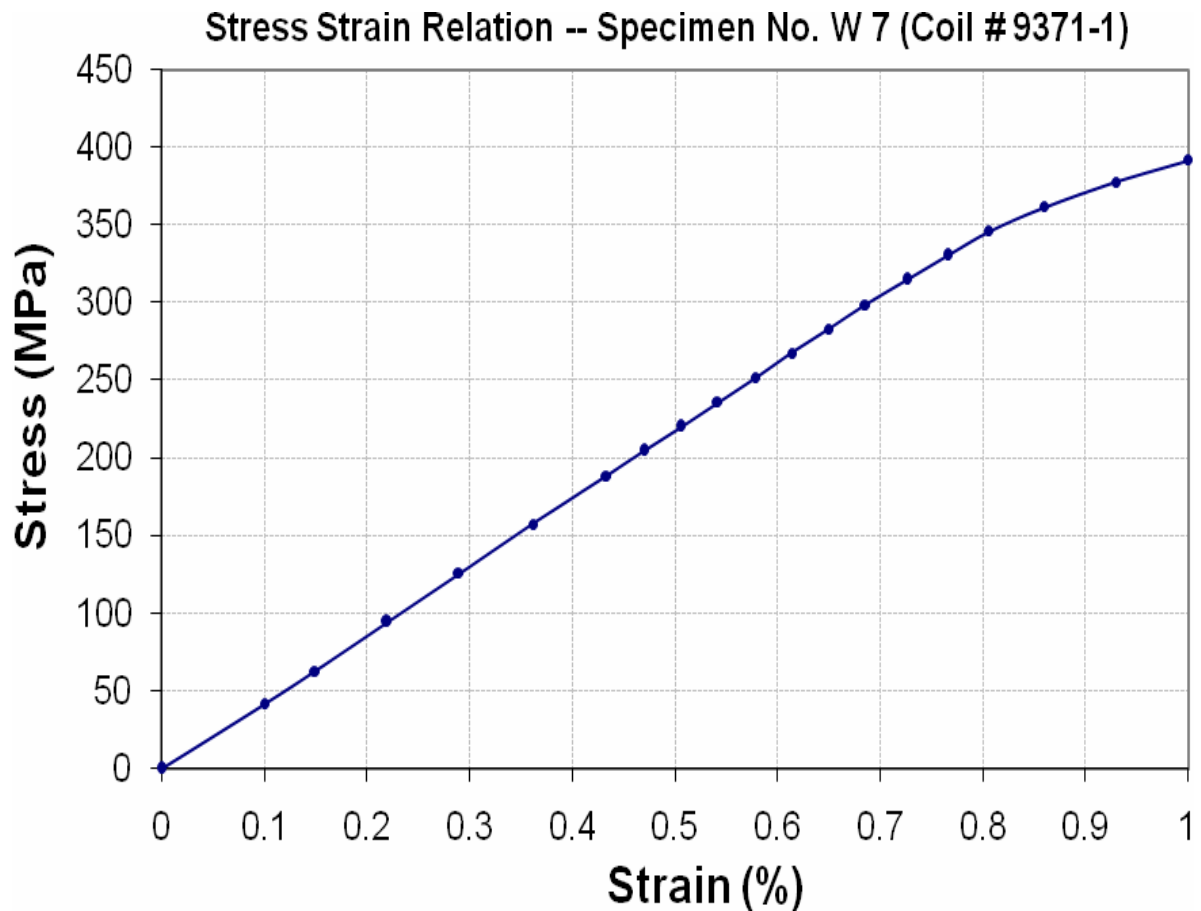
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**Graph** (Page – 8/10)



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

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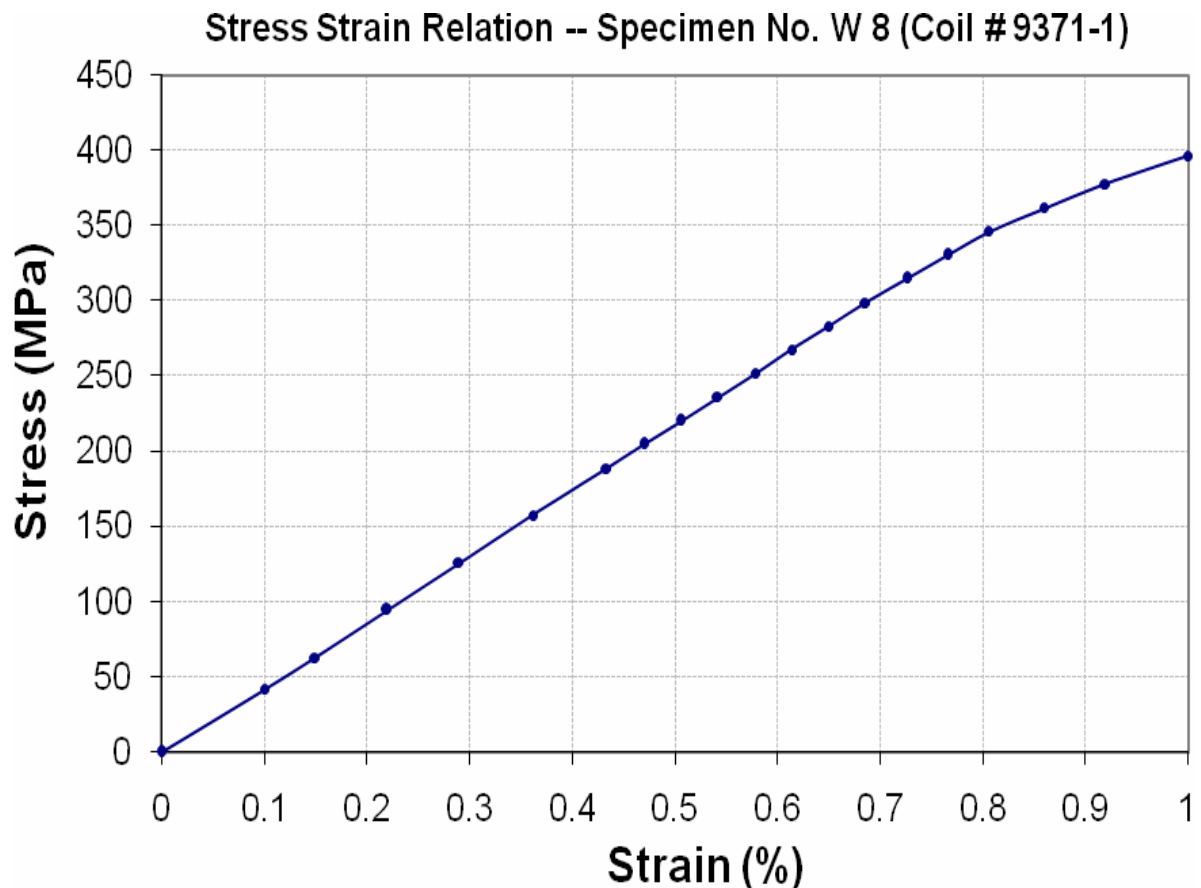
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**Graph** (Page – 9/10)



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

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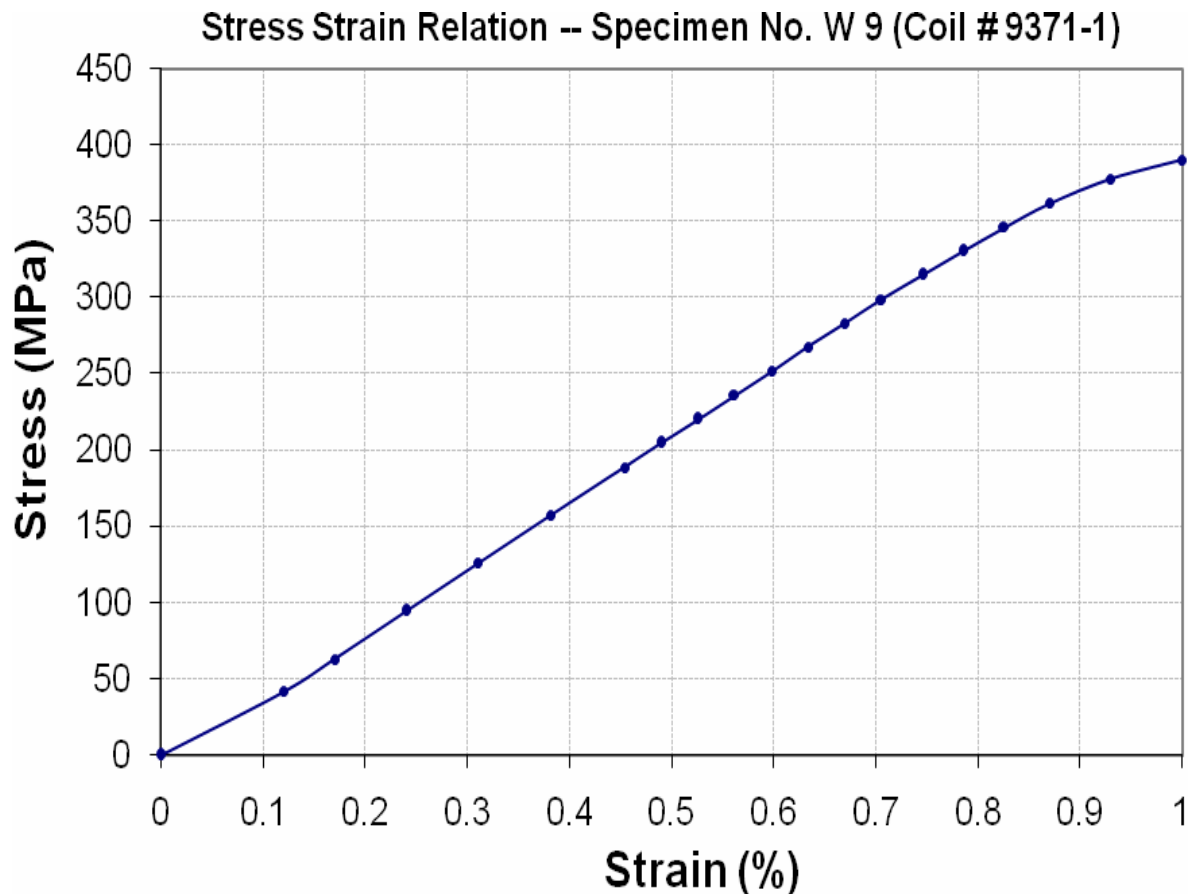
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**Graph** (Page – 10/10)



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To,  
Resident Engineer – I  
NESPAK  
Construction of Sheranwala Flyover, Lahore

Reference # CED/TFL **37383** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3772/SF/103/MWA/04/149

Dated: 18-11-2021  
Dated: 30-10-2021

**Tension Test Report** (Page -1/2)

Date of Test 23-11-2021  
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	781.0	17500	171.68	19500	191.30	199	>3.50	23016
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>Only one sample for Test</b>										

Witness by Ashiq Hussain (M.E. NESPAK) & Engr. Ishtiaq (M.E HCS)

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**  
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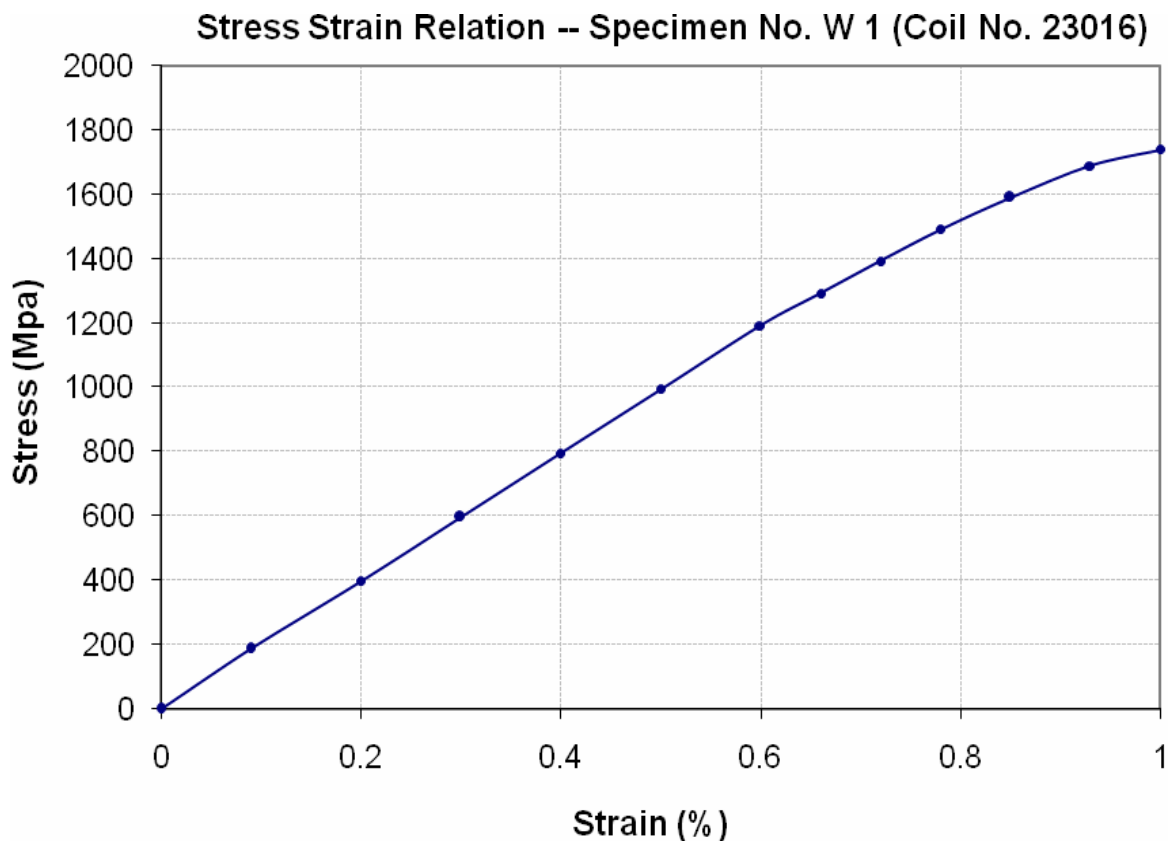
**STRUCTURAL ENGINEERING DIVISION**  
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To,  
Resident Engineer – I  
NESPAK  
Construction of Sheranwala Flyover, Lahore

Reference # CED/TFL **37383** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3772/SF/103/MWA/04/149

Dated: 18-11-2021  
Dated: 30-10-2021

**Graph** (Page – 2/2)



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

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To,  
M/S Wadduha Engineering  
Lahore  
(Construction of East Bay Expressway Gawadar)( CCCC)  
(Manufacturer: M Khalid & Sons)  
Reference # CED/TFL 37384 (Dr. M Rizwan)  
Reference of the request letter # Nil

Dated: 18-11-2021  
Dated: 18-11-2021

**Tension Test Report** (Page – 1/2)

Date of Test 23-11-2021  
Gauge length 2 inches  
Description G.I Wire PVC Coated Tensile Test (without Coating)

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual							
1	0.063	3.25	3.20	-----	8.0	-----	520	-----	635	0.30	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
Bend Test												

**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](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**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Wadduha Engineering  
Lahore  
(Construction of East Bay Expressway Gawadar)( CCCC)  
(Manufacturer: M Khalid & Sons)  
Reference # CED/TFL 37384 (Dr. M Rizwan)  
Reference of the request letter # Nil

Dated: 18-11-2021  
Dated: 18-11-2021

**Size Test Report** (Page – 2/2)  
Date of Test 23-11-2021  
Description G.I Wire PVC Coated Thickness Test

Sr. No.	Designation	Measured Diameter	Remark
	(mm)	(mm)	
1	3.25	3.00	without Coating
2	4.90	4.90	with Coating
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only Two Samples for Test</b>			

**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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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  
 Pro-Health  
 Children's Heart Hospital and Research Institute  
 Pakistan Children's Heart Foundation  
 Westcon Construction Private Limited

Reference # CED/TFL **37397** (Dr. M Rizwan Riaz)  
 Reference of the request letter # T2111101-L002-UET/LTR

Dated: 22-11-2021  
 Dated: 20-11-2021

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

Date of Test 23-11-2021  
 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	0.380	3	0.377	0.11	0.112	3900	5000	78200	77000	100200	98800	1.00	12.5	
2	0.379	3	0.377	0.11	0.111	3900	4900	78200	77100	98200	96900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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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,  
 Deputy Project Director Center  
 PMU – SBP  
 Tehsil Sports Complex Dijkot, District Faisalabad

Reference # CED/TFL **37400** (Dr. M Rizwan Riaz)  
 Reference of the request letter # DPD/PMU/SBP/LHR/21

Dated: 22-11-2021  
 Dated: 19-11-2021

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

Date of Test 23-11-2021  
 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	0.111	3300	5100	66200	65790	102200	101700	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:

- 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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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- 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,  
 Sub Divisional Officer  
 Buildings Sub Division  
 Kot Radha Kishan  
 (Construction of Additional Class Rooms in Schools (ADP No. 15/2021-22) Construction of 02-  
 Nos. Additional Class Rooms at Govt. Girls Primary School Rakh Butt Tehsil K.R.K District  
 Kasur)

Reference # CED/TFL **37401** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 17/KRK

Dated: 22-11-2021  
 Dated: 25-10-2021

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

Date of Test 23-11-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.400	3/8	0.387	0.11	0.118	3200	4900	64200	59990	98200	91900	1.20	15.0	
2	0.391	3/8	0.383	0.11	0.115	3300	4900	66200	63300	98200	94000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**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,  
 Lab Technician  
 Banu Mukhtar Contracting (Pvt) Ltd  
 PK Meat and Food Company

Reference # CED/TFL **37402** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 22-11-2021  
 Dated: 22-11-2021

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

Date of Test 23-11-2021  
 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 <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	0.384	10	9.63	0.12	0.113	2400	3000	44092	46850	55115	58600	1.70	21.3	
2	0.372	10	9.48	0.12	0.109	3600	4800	66138	72580	88184	96800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm 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  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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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,  
Manager Procurement  
Namco Associates (Pvt) Ltd.  
Manufacturing of PCC Poles at Jahania Pole Plant

Reference # CED/TFL **37403** (Dr. M Rizwan Riaz)  
Reference of the request letter # NAMCO/UET/1011-2021

Dated: 22-11-2021  
Dated: 19-11-2021

**Tension Test Report** (Page – 1/1)

Date of Test 23-11-2021  
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	444.0	9800	96.14	11000	107.91	>3.50	xx
2	9.53 (3/8")	432.0	438.0	9900	97.12	11200	109.87	>3.50	xx
3	11.11 (7/16")	582.0	591.0	13000	127.53	14900	146.17	>3.50	xx
4	11.11 (7/16")	582.0	590.0	13900	136.36	14800	145.19	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

**Only four sampled for 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,  
 Construction Manager  
 Elite Engineering Pvt. Ltd.  
 Sitara Serene Multistoried Building Lahore

Reference # CED/TFL **37404** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 22-11-2021  
 Dated: 22-11-2021

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

Date of Test 23-11-2021  
 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 <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	0.370	9.52	9.45	0.110	0.109	3400	5000	68200	68970	100200	101500	1.20	15.0	Amreli steel
2	0.388	9.52	9.68	0.110	0.114	3400	5000	68200	65690	100200	96700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
9.52mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Farraz Rasul

**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,  
 Director Projects  
 Innovative (R) Construction Company  
 Construction of ABL Branch at Jubilee Town, Lahore

Reference # CED/TFL **37405** (Dr. M Rizwan Riaz)  
 Reference of the request letter # ICL/ABL/JT/1121/01

Dated: 22-11-2021  
 Dated: 22-11-2021

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

Date of Test 23-11-2021  
 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	0.379	3	0.377	0.11	0.111	4000	5000	80200	79080	100200	98900	1.00	12.5	
2	0.376	3	0.375	0.11	0.110	3700	4800	74200	73860	96200	95900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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,  
 Resident Engineer  
 Orbit Developers Private Limited  
 The Spring Apartment Homes

Reference # CED/TFL **37409** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 23-11-2021  
 Dated: 23-11-2021

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

Date of Test 23-11-2021  
 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	0.379	3	0.377	0.11	0.111	3400	5000	68200	67230	100200	98900	1.10	13.8	
2	0.370	3	0.372	0.11	0.109	3500	5100	70200	70920	102200	103400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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**  
**Duplicate**

To,  
 Project Engineer  
 SMC  
 2038 - Carrefour (M) at Hyper Box at Gujranwala

Reference # CED/TFL **36401, 37410** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 2038-BOX/008/2021

Dated: 29-04-2021  
 Dated: 29-04-2021

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

Date of Test 30-04-2021  
 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	0.379	3	0.377	0.11	0.111	4000	4900	80200	79150	98200	97000	1.00	12.5	Mughal Steel
2	0.379	3	0.377	0.11	0.111	4000	5000	80200	79150	100200	99000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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- 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**  
**Duplicate**

To,  
 Project Engineer  
 SMC  
 2038- Carrefour (M) at Hyper Box at Gujranwala

Reference # CED/TFL **36644, 37410** (Dr. Qasim Khan)  
 Reference of the request letter # 2038/BOX/009/2021

Dated: 25-06-2021  
 Dated: 25-06-2021

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

Date of Test 28-06-2021  
 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	0.374	3	0.374	0.11	0.110	3300	4900	66200	66110	98200	98200	1.30	16.3	Ittefaq Steel
2	0.376	3	0.375	0.11	0.111	3300	5000	66200	65730	100200	99600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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,  
 General Manager  
 Sufi City  
 Building Project at Sufi City, Mandi Bahauddin

Reference # CED/TFL **37413** (Dr. Safer Abbass)  
 Reference of the request letter # Nil

Dated: 23-11-2021  
 Dated: 23-11-2021

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

Date of Test 23-11-2021  
 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	0.381	3/8	0.377	0.11	0.112	2000	3400	40100	39400	68200	67000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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:

- 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](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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