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
Dualization of Lilla Interchange (M-2) via P.D. Khan to Jhelum I/C Bypasses (02 Nos) Length 128 km, District Jhelum

Reference # CED/TFL **1478** (Dr. Safeer Abbass) Dated: 01-06-2022
Reference of the request letter # NESPAK/RE/JH/22/99 Dated: 31-05-2022

Tension Test Report (Page -1/4)

Date of Test 07-06-2022
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**	**18100**	**177.56**	**19800**	**194.24**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**775.0**	**785.0**	**18600**	**182.47**	**19900**	**195.22**	**198**	**>3.50**	**xx**
3	**12.70 (1/2")**	**775.0**	**785.0**	**18000**	**176.58**	**19900**	**195.22**	**199**	**>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.

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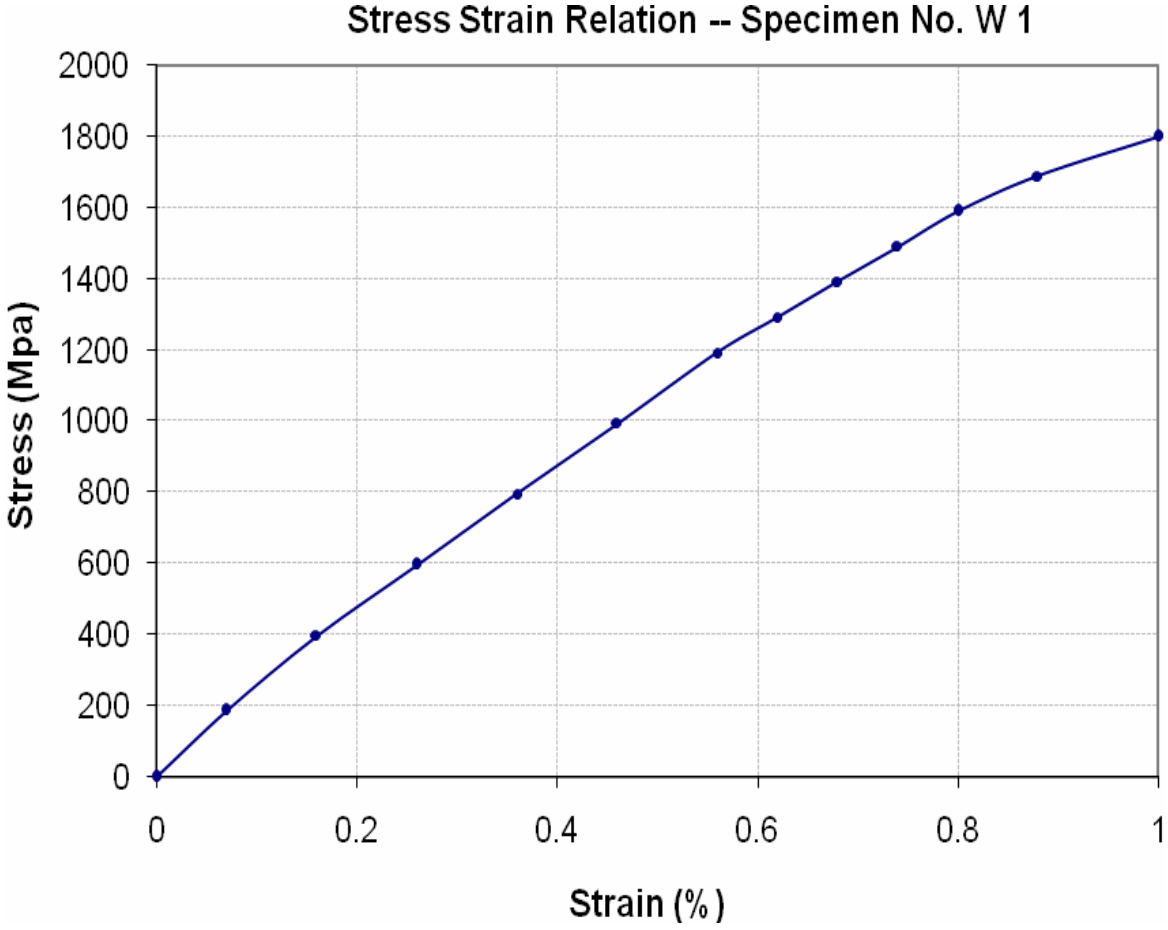
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Dualization of Lilla Interchange (M-2) via P.D. Khan to Jhelum I/C Bypasses (02 Nos) Length 128 km, District Jhelum

Reference # CED/TFL **1478** (Dr. Safeer Abbass) Dated: 01-06-2022
Reference of the request letter # NESPAK/RE/JH/22/99 Dated: 31-05-2022

Graph (Page – 2/4)



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To,
Resident Engineer
NESPAK
Dualization of Lilla Interchange (M-2) via P.D. Khan to Jhelum I/C Bypasses (02 Nos) Length 128 km, District Jhelum

Reference # CED/TFL **1478** (Dr. Safeer Abbass) Dated: 01-06-2022
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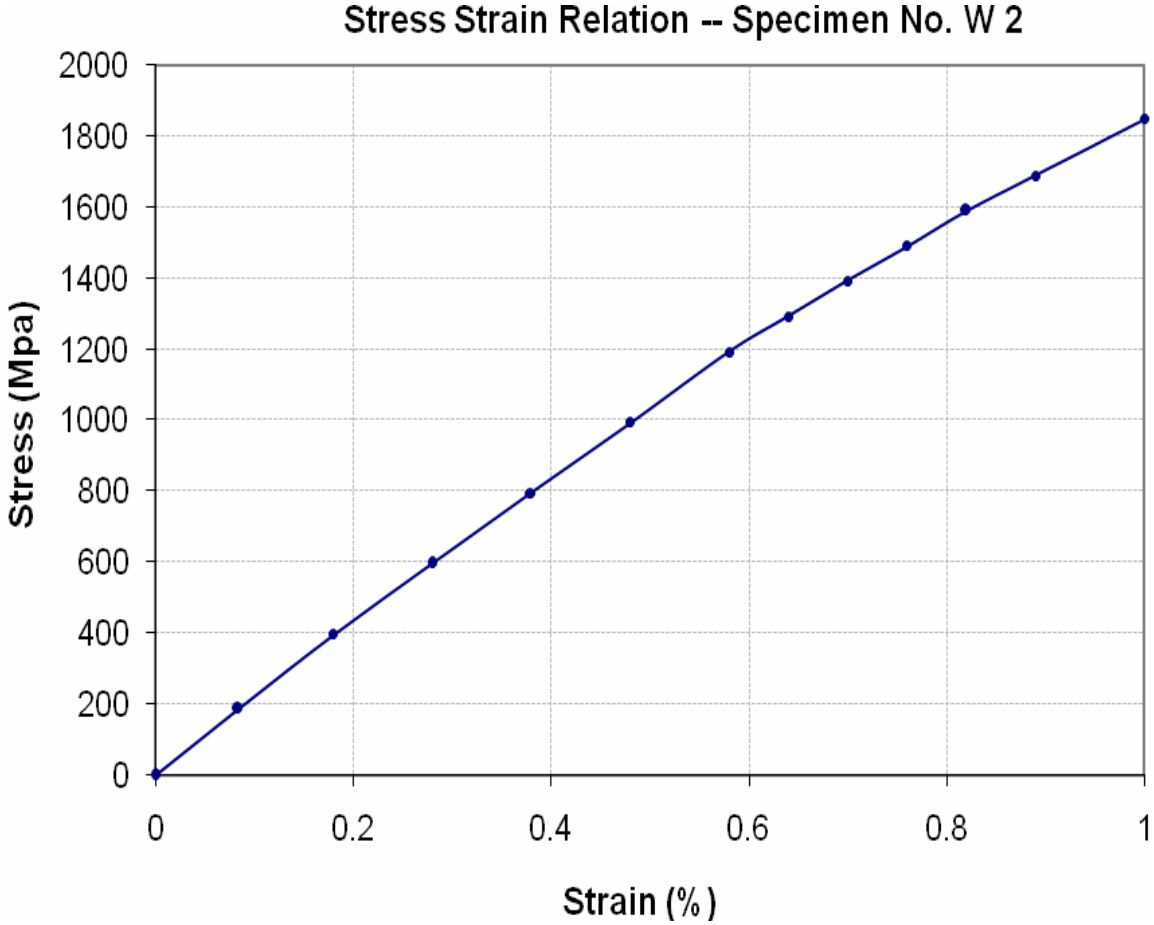
Graph (Page – 3/4)



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Test Floor Laboratory
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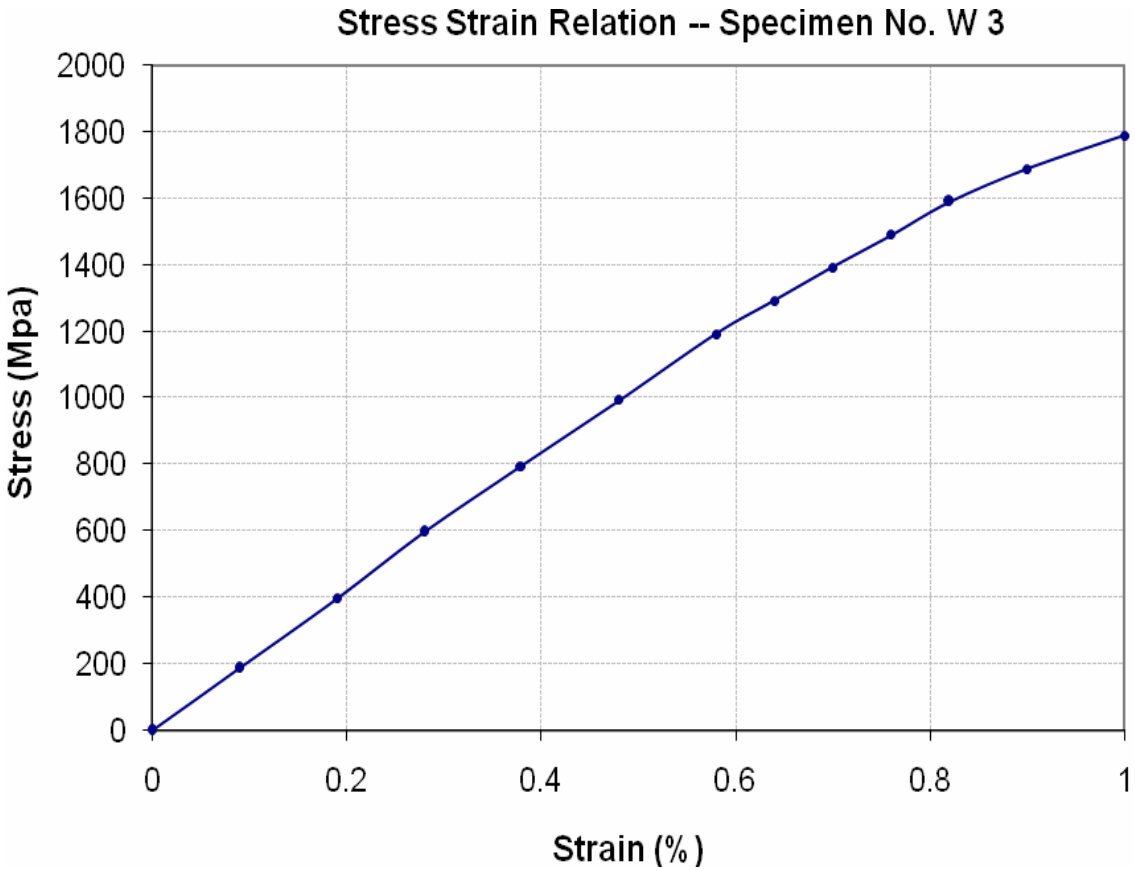
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Dualization of Lilla Interchange (M-2) via P.D. Khan to Jhelum I/C Bypasses (02 Nos) Length 128 km, District Jhelum

Reference # CED/TFL **1478** (Dr. Safeer Abbass) Dated: 01-06-2022
Reference of the request letter # NESPAK/RE/JH/22/99 Dated: 31-05-2022

Graph (Page – 4/4)



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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 Jamal Seamless Pipe (Pvt) Ltd
Lahore

Reference # CED/TFL **1474** (Dr. Usman Akmal) Dated: 01-06-2022
Reference of the request letter # Nil Dated: 24-05-2022

Tension Test Report (Page – 1/1)

Date of Test 09-06-2022
Gauge length 2 inches
Description Pipe Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**25.4**	**12.00x4.50**	**54.00**	**--------**	**5700**	**--------**	**1036**	**0.20**	**10.00**	
2	**27.4**	**13.95x5.70**	**79.52**	**--------**	**5300**	**--------**	**654**	**0.10**	**5.00**	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two 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

To,
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2, Islamabad
(WMI)

Reference # CED/TFL **1496** (Dr. Safeer Abbass) Dated: 03-06-2022
Reference of the request letter # 4125/321/NS/03/405 Dated: 01-06-2022

Tension Test Report (Page -1/4)

Date of Test 07-06-2022
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**	**17300**	**169.71**	**19200**	**188.35**	**198**	**>3.50**	**xx**
2	**12.70 (1/2")**	**775.0**	**779.0**	**17600**	**172.66**	**19700**	**193.26**	**199**	**>3.50**	**xx**
3	**12.70 (1/2")**	**775.0**	**781.0**	**18300**	**179.52**	**19600**	**192.28**	**199**	**>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.

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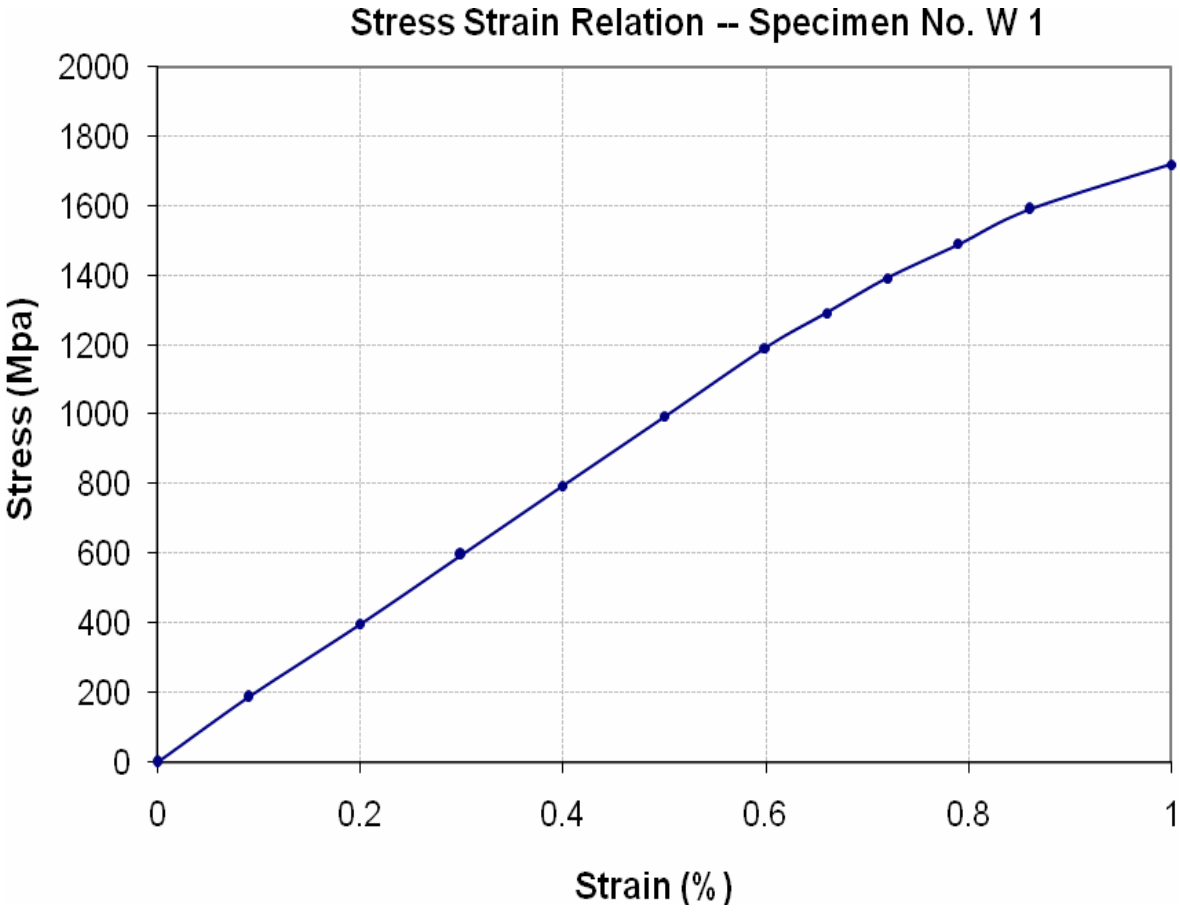
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2, Islamabad

Reference # CED/TFL **1496** (Dr. Safeer Abbass) Dated: 03-06-2022
Reference of the request letter # 4125/321/NS/03/405 Dated: 01-06-2022

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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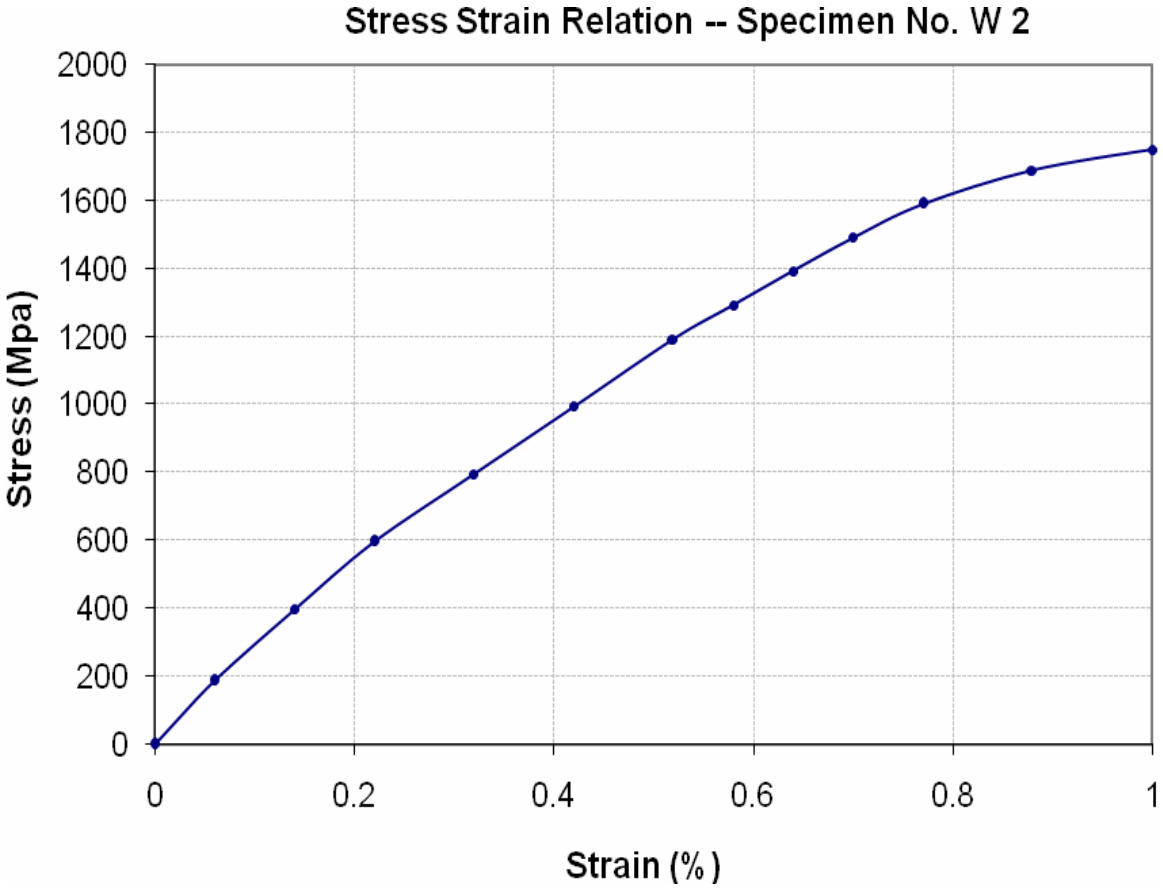
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2, Islamabad

Reference # CED/TFL **1496** (Dr. Safeer Abbass) Dated: 03-06-2022
Reference of the request letter # 4125/321/NS/03/405 Dated: 01-06-2022

Graph (Page – 3/4)



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UET Lahore, Pakistan.

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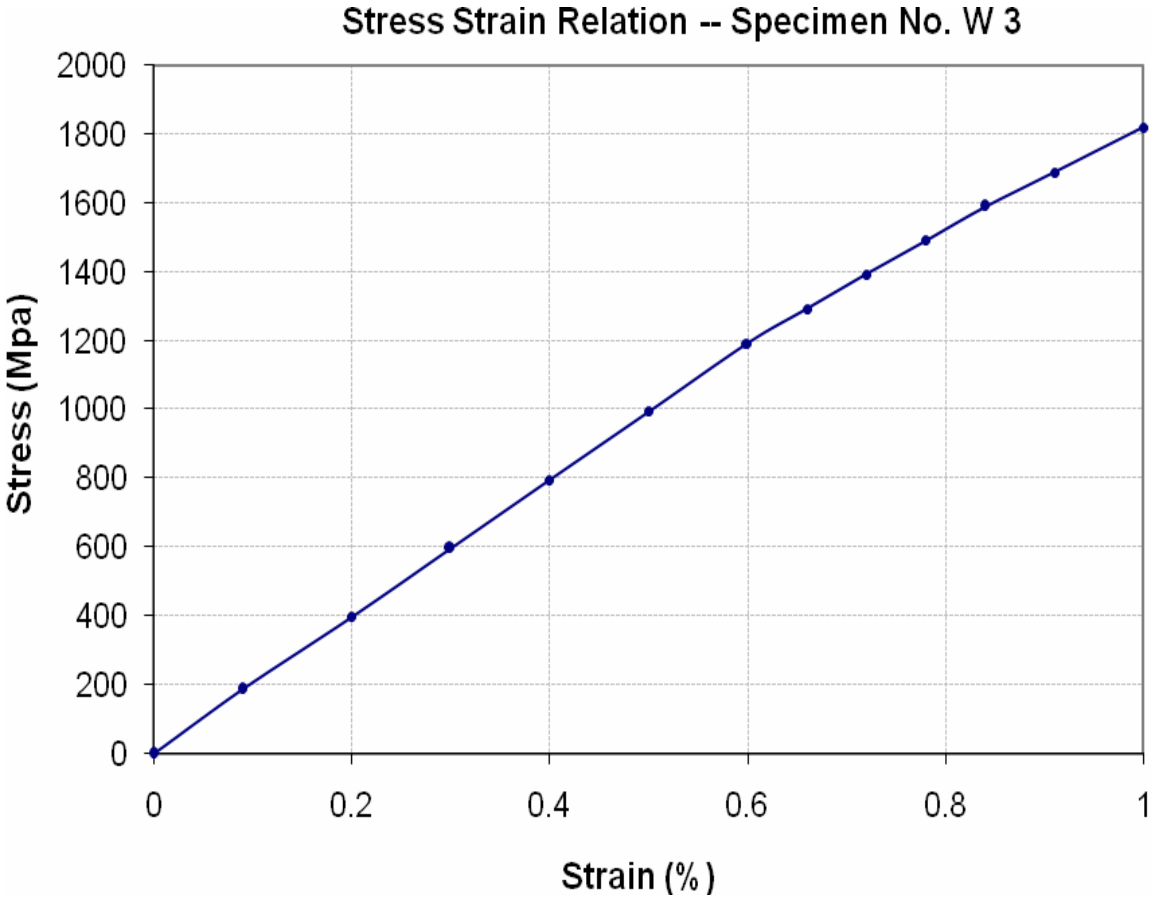
To,
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2, Islamabad

Reference # CED/TFL **1496** (Dr. Safeer Abbass) Dated: 03-06-2022
Reference of the request letter # 4125/321/NS/03/405 Dated: 01-06-2022

Graph (Page – 4/4)



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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
NESPAK
Lahore

Reference # CED/TFL **1500** (Dr. Ali Ahmed) Dated: 03-06-2022
Reference of the request letter # 4345/04/AK/01/6210 Dated: 03-06-2022

Seamless/Flattening Test Report (Page – 1/2)

Date of Test 07-06-2022
Description Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 8" Dia	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
		-	
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
	Only One 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,
Project Manager
NESPAK
Lahore

Reference # CED/TFL **1500** (Dr. Ali Ahmed) Dated: 03-06-2022
Reference of the request letter # 4345/04/AK/01/6210 Dated: 03-06-2022

Weight &Size Test Report (Page – 2/2)

Date of Test 07-06-2022
Description Pipe Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)		(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	**Pipe**	**8**	**7526**	**17.70**	**42.52**	**219.00**	**202.08**	**8.46**	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One 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,
Project Engineer
Century Ventures
Century 1

Reference # CED/TFL **1504** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # CV1/SRT/05 Dated: 04-06-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	3	0.370	0.11	0.108	3520	4960	70600	72000	99400	101500	1.10	13.8	Ittefaq Steel
2	0.367	3	0.371	0.11	0.108	3490	4890	70000	71350	98000	100000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,
Sub Divisional Officer
Building Sub Division
Chakwal
(University of Chakwal ADP No. 66 for The Year 202-21, "Construction of Female Student Hostel Ground / First Floor with Additional Items & Architectural Features" Group No. 3)

Reference # CED/TFL **1505** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # 559/ckw Dated: 15-04-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3/8	0.377	0.11	0.111	4230	5100	84800	83670	102200	100900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
Resident Engineer
ACE limited – ACC (Pvt) Ltd
Construction of Lodhran - Multan Project Section (N-5) (North Bound 62 km)

Reference # CED/TFL **1506** (Dr. Rizwan Azam) Dated: 06-06-2022
Reference of the request letter # RE/ACE/LMP/2022/213 Dated: 31-05-2022

Tension Test Report (Page -1/5)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.303	32	32.23	1.25	1.265	35200	54900	62082	61340	96826	95700	1.60	20.0	Mujahid Steel
2	4.303	32	32.23	1.25	1.265	36400	54000	64198	63440	95239	94200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180º 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 Manager
State Grid
Design, Supply, Istallation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar S/S – Lahore North S/S- Lahore HVDC Switching / Converter Stattion
(Kamran Steel) (Sharaqpur Warehouse)
Reference # CED/TFL **1507** (Dr. Rizwan Azam) Dated: 06-06-2022
Reference of the request letter # CET/ADB-301A/SEC-II/UET-22-550 Dated: 06-06-2022

Tension Test Report (Page -1/2)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.357	10	1.277	1.27	1.281	57000	72400	99000	98100	125700	124600	1.00	12.5	
2	4.288	10	1.267	1.27	1.260	35000	53000	60800	61210	92000	92700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180º is Satisfactory														
#10 Bar Bend Test Through 180º is Satisfactory														

Witness by Ibrar Ahmed (Jr. Engr. NESPAK) & Engr. Usman Ghafoor (P.E, CET)

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 Manager
State Grid
Design, Supply, Istallation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar S/S – Lahore North S/S- Lahore HVDC Switching / Converter Stattion
(Kamran Steel) (Noshehra Virka Warehouse)
Reference # CED/TFL **1507** (Dr. Rizwan Azam) Dated: 06-06-2022
Reference of the request letter # CET/ADB-301A/SEC-II/UET-22-549 Dated: 06-06-2022

Tension Test Report (Page -2/2)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.275	10	1.265	1.27	1.257	39400	54200	68400	69110	94100	95100	1.50	18.8	
2	4.292	10	1.267	1.27	1.261	39600	54000	68800	69190	93800	94400	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180º is Satisfactory														
#10 Bar Bend Test Through 180º is Satisfactory														

Witness by Ibrar Ahmed (Jr. Engr. NESPAK) & Engr. Usman Ghafoor (P.E, CET)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
Project Manager
Izhar Construction (Pvt) Ltd
OMBRe' Holdings Pvt Ltd Raiwind, Lahore

Reference # CED/TFL **1508** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # OMBRe'/Mughal/Steel/007 Dated: 06-06-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.413	10	9.98	0.12	0.121	4430	5450	81386	80490	100126	99100	1.00	12.5	Mughal Steel
2	0.419	10	10.06	0.12	0.123	4130	5270	75875	73860	96819	94300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º is Satisfactory														

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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.E
AS Enterprises
Style Textile Manga, Knitting 3, ETP 3
(AA Associates)

Reference # CED/TFL **1510** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # STM/ASE/01 Dated: 25-06-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.413	10	9.98	0.12	0.121	4710	5760	86531	85540	105821	104700	0.90	11.3	Mughal Steel
2	0.418	10	10.05	0.12	0.123	4690	5660	86163	84090	103984	101500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º 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
NESPAK
Establishment of Sports Complex in Singh Pura Lahore (LDP) NA-122

Reference # CED/TFL **1511** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # 3772/103/NA122/RE/05/01 Dated: 18-05-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.408	3	0.391	0.11	0.120	4000	5300	80200	73580	106200	97500	1.10	13.8	
2	0.380	3	0.377	0.11	0.112	3890	5100	78000	76850	102200	100800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,
Sub Divisional Officer
Building Sub Division
Chunian
(Re-Construction of 2-Nos Dengrous Class in Govt Girls High School Hussain Khan Wala Chak No.8 Tehsil Chunian District Kasur)

Reference # CED/TFL **1512** (Dr. Ali Ahmed) Dated: 06-06-2022
Reference of the request letter # 73/ch Dated: 16-05-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3/8	0.376	0.11	0.111	3010	4180	60400	59890	83800	83200	1.40	17.5	
2	0.373	3/8	0.374	0.11	0.110	2900	4230	58200	58230	84800	85000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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

To,
GM-Material & Procurement
MARS Engineering
Lahore
(Mohmand Dam Project)

Reference # CED/TFL **1515** (Dr. Rizwan Azam) Dated: 07-06-2022
Reference of the request letter # Nil Dated: 07-06-2022

Tensile / Slippage Test Report (Page -1/1)

Date of Test 07-06-2022
Description Coupler Rod Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	36	63800	Rebar Failure Assembly still Intact	
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Note: only one sample for test				

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

To,
M/S United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **1517** (Dr. Safeer Abbass) Dated: 07-06-2022
Reference of the request letter # UWIL/D-913 Dated: 07-06-2022

Tension Test Report (Page – 1/1)

Date of Test 07-06-2022
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	**15.24 (0.6")**	**1102.0**	**1109.0**	**24700**	**242.31**	**27600**	**270.76**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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University of Engineering and Technology Lahore, 54890
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To,
Arslan Azeem
Engineer
Zikria Construction Company
Beaconhouse Multan Early Ears Class Rooms.

Reference # CED/TFL **1520** (Dr. Asad Ali) Dated: 07-06-2022
Reference of the request letter # Nil Dated: 07-06-2022

Tension Test Report (Page -1/1)

Date of Test 07-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3	0.377	0.11	0.112	3520	4860	70600	69520	97400	96000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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