

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

To. Resident Engineer **NESPAK - PICIIP** 

Punjab Intermediate Cities Improvement Investment Program (PICIIP), Consultancy Services for Enginbeering, Procurement and Construction Management

Reabbilitation / Improve,ment of Water (Lot-02)

Reference # CED/TFL **36032** (Dr. Usman Akmal)

Dated: 03-02-2021 Reference of the request letter # 3976/11/MT/Lot-2/39 Dated: 02-02-2021

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

Date of Test 04-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		ee Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	4.284	10	1.266	1.27	1.259	40000	53000	69500	70020	92000	92800	1.60	20.0	-
2	4.280	10	1.266	1.27	1.258	40800	55000	70900	71480	95500	96400	1.60	20.0	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	ugha
-	-	-	ı	-	-	-	-	-	-	-	-	-	-	M
-	-	-	ı	ı	-	1	-	-	-	-	-	-	-	
-	-	-	1	-	-	•	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est est						
#10	) Dia Ra	r Rend	Test Th	rough 1	80° is S	Satisfactor	rv.							

#10 Dia Bar Bend Test Through 180° is Satisfactory

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

- 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.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,

Resident Engineer Zeeruk Intl: (Pvt) Ltd

Dualization of Indus Highway (N55) Karak to Kohat Project

(United Wire)

Reference # CED/TFL <u>36145 (Dr. Ali Ahmed)</u>
Reference of the request letter # ZI/P-2/RE/2021/323

**Tension Test Report** (Page – 1/3)

Date of Test 03-03-2021 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause			iking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	775.0	792.0	18100	177.56	19900	195.22	199	>3.50	xx
2	12.70 (1/2")	775.0	787.0	18400	180.50	19800	194.24	199	>3.50	XX
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	1	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	

Only two 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.

Dated: 01-03-2021

Dated: 25-02-2021

- 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



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

To,

Resident Engineer Zeeruk Intl: (Pvt) Ltd

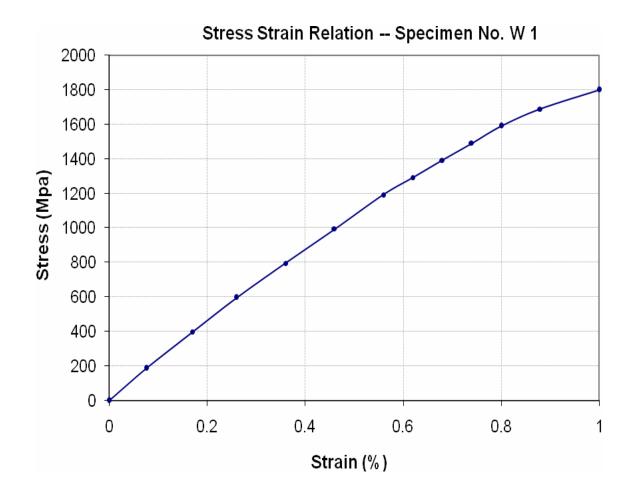
Dualization of Indus Highway (N55) Karak to Kohat Project

(United Wire)

Reference # CED/TFL 36145 (Dr. Ali Ahmed)

Dated: 01-03-2021 Reference of the request letter # ZI/P-2/RE/2021/323 Dated: 25-02-2021

# **Graph** (Page -2/3)



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

- 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.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,

Resident Engineer Zeeruk Intl: (Pvt) Ltd

Dualization of Indus Highway (N55) Karak to Kohat Project

(United Wire)

Reference # CED/TFL <u>36145 (Dr. Ali Ahmed)</u> Reference of the request letter # ZI/P-2/RE/2021/323 Dated: 01-03-2021 Dated: 25-02-2021

**Graph** (Page -3/3)

# Stress Strain Relation -- Specimen No. W 2 2000 1800 1600 1400 Stress (Mpa) 1200 1000 800 600 400 200 0 0 0.2 0.4 0.6 8.0 Strain (%)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Resident Engineer NESPAK

Punjab Intermediate Cities Improvement Investment Program (PICIIP), Consultancy Services for Enginbeering, Procurement and Construction Management Rehabilitation / Improvement of Water Supply System Sahiwal - LOT 1

Reference # CED/TFL <u>36146 (Dr. Ali Ahmed)</u> Reference of the request letter # 3976/11/MT/Lot-1/38

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM A615

0.	Weight		neter/ ze		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	ation	rks
Sr. No.					Γ	Λ ————————————————————————————————————	<b>H</b>		Ι			E	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	%	I
1	4.284	10	1.266	1.27	1.259	40000	53000	69500	70020	92000	92800	1.60	20.0	1
2	4.280	10	1.266	1.27	1.258	40800	55000	70900	71480	95500	96400	1.60	20.0	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	ughal
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Mı
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
Ш10	) Bar Be		Thus	-1. 1000	: Cati	Co at a serv	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 01-03-2021

Dated: 27-02-2021

- 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



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

To,

M/S Engineering Design Bureau Model Town Ext., Lahore

(Site: Padhar Camp Iftikharabad Gujrat)

Reference # CED/TFL 35147 (Dr. Waseem Abbass) Dated: 01-03-2021

Reference of the request letter # EDB/09 Dated: 08-02-2021

**Tension Test Report** (Page -1/3)

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.375	10	9.52	0.12	0.110	3600	5400	66138	71920	99207	107900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	ı	
ı	-	-	-	-	-	-	•	-	-	-	•	-	ı	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1		N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est	ı		1
10:	Di-	Dan Da	. 1 T4	Thurst	1. 1000:	a Catiaf	Bend T	est						
101	nm Dia	Bar Bei	nd Lest	Ihroug	n 180° 1	s Satisfac	etory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,

M/S Engineering Design Bureau Model Town Ext., Lahore (Site: Head Marala, Sialkot)

Reference # CED/TFL 35147 (Dr. Waseem Abbass)

Dated: 01-03-2021

Reference of the request letter # EDB/11 Dated: 08-02-2021

**Tension Test Report** (Page -2/3)

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize um)		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.379	10	9.57	0.12	0.112	3700	4900	67975	73140	90021	96900	1.20	15.0	
-	-	-	-	-	-	1	-	-	-	-	-	-	1	
-	-	-	-	-	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	1	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	I		
							Bend T	est est						
10r	nm Dia	Bar Beı	nd Test	Throug	h 180° i	s Satisfac	etory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,

M/S Engineering Design Bureau Model Town Ext., Lahore

(Site: Kundan Pur)

Reference # CED/TFL **35147** (Dr. Waseem Abbass) Dated: 01-03-2021

Reference of the request letter # EDB/10 Dated: 08-02-2021

**Tension Test Report** (Page -3/3)

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.378	10	9.55	0.12	0.111	3300	4600	60627	65470	84510	91300	1.00	12.5	
-	-	-	-	-	-	ı	-	-	-	-	-	-	1	
-	-	-	-	-	-	ı	-	-	-	-	-	-	ı	
-	-	-	-	-	-	ı	-	-	-	-	•	-	ı	
-	-	-	-	-	-	•	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1		N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est	ı		ı
10.	nom Die	Don Do	ad Tost	Theore	1, 1000 :	a Satisfa	Bend T	est						
101	nm Dia	Bar Bei	na 1 est	Inroug	n 180° 1	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

Ref: <u>CED/TFL/03/36148</u> Dated: <u>01-03-2021</u>

Dated of Test: 03-03-2021

To Manager Monitoring & Coordination Shajar Roads Limited Dualization of Sheikhupura- Gujranwala Road

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]

Reference to your letter No. MMC/SHJR/SGRPS/37, dated 27.02.2021 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	36	8.03	7.61	3.67	2.99	4.07	31150	48620	3018	4710

Witness by Manohar Lal (Chief Engr. NESPAK) & Asghar Ali (R.E aaa)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Assistant Director-II Buliding Research Station, Lahore (M/S Agha Steel Industries Ltd. Karachi)

Reference # CED/TFL **35149** (Dr. Waseem Abbass)

Reference of the request letter # 154-R/533

Dated: 01-03-2021

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	<b>T</b> %	Re
1	0.375	3	0.375	0.11	0.110	3800	5000	76200	75970	100200	100000	1.10	13.8	
-	ī	-	-	1	ı	-	-	1	-	-	-	-	1	
-	ī	-	-	ı	ı	-	-	ı	-	-	-	-	ı	
-	ı	-	-	1	-	-	-	1	-	-	-	-	1	
-	-	-	-	1	-	-	-	-	-	-	-	-	•	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est			
							Bend T	est						
#3	Bar Ber	nd Test	Throug	h 180° i	s Satisf	actory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, M/S Shahid Engineers Faisalabad (Apex Mall)

Reference # CED/TFL <u>35150 (Dr. Waseem Abbass)</u>

Reference of the request letter # FX-83/2021

Dated: 26-02-2021

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.377	3/8	0.376	0.11	0.111	4100	5200	82200	81510	104200	103400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est			I
							D 1 T	\4						
3/8	" Dia Ba	ır Bend	Test Th	nrough	180° is \$	Satisfacto	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, M/S Shahid Engineers Faisalabad (Apex Mall)(Mughal Steel)

Reference # CED/TFL <u>35151 (Dr. Waseem Abbass)</u>

Reference of the request letter # Nil

Dated: 02-03-2021

Dated: 26-02-2021

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.378	3/8	0.376	0.11	0.111	3600	4500	72200	71380	90200	89300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est			
							Bend T	est						
3/8	" Dia Ba	r Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,
Resident Engineer / Team Leader
Prime Engineering Consultancy
Kallurkot Bridge Project

Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL <u>36152 (Dr. Ali Ahmed)</u>

Reference of the request letter # KK-DIK-BR-PJ/2021/256

Dated: 02-03-2021

Dated: 01-03-2021

**Tension Test Report** (Page -1/3)

Date of Test 03-03-2021 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause		stre	iking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	775.0	785.0	17000	166.77	20000	196.20	199	>3.50	XX
2	12.70 (1/2")	775.0	784.0	17800	174.62	19900	195.22	199	>3.50	XX
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	1	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	

Only two 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.

- 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



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

To,
Resident Engineer / Team Leader
Prime Engineering Consultancy
Kallurkot Bridge Project
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

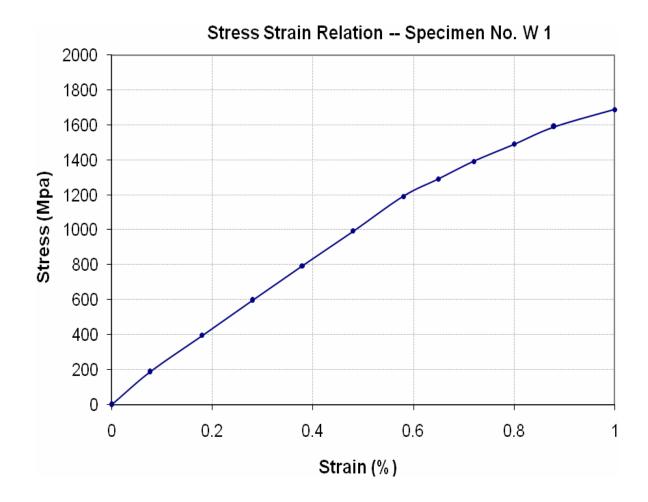
Reference # CED/TFL <u>36152 (Dr. Ali Ahmed)</u>

Reference of the request letter # KK-DIK-BR-PJ/2021/256

Dated: 02-03-2021

Dated: 01-03-2021

**Graph** (Page – 2/3)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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

# NOMERNICA STATE OF THE STATE O

#### 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 / Team Leader
Prime Engineering Consultancy
Kallurkot Bridge Project
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

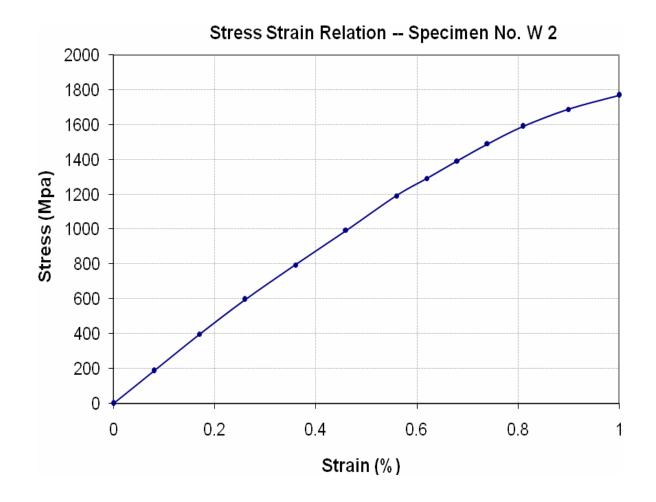
Reference # CED/TFL <u>36152 (Dr. Ali Ahmed)</u>

Reference of the request letter # KK-DIK-BR-PJ/2021/256

Dated: 02-03-2021

Dated: 01-03-2021

**Graph** (Page – 3/3)



I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To, Resident Engineer NESPAK

Construction of High Level Bridge over Racy Nullah Tehsil Jand District Attock

Reference # CED/TFL 36154 (Dr. Ali Ahmed)

Reference of the request letter # 3126/RE/ADP/SUJ/03/39

Dated: 02-03-2021

Dated: 01-03-2021

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	4.263	10	1.263	1.27	1.253		60000			104200	105600	1.45	18.1	
-	ı	-	-	ı	-	ı	-	-	-	-	ı	-	ı	
-	ı	-	-	ı	-	ı	-	-	-	-	ı	-	ı	
-	-	-	-	1	-	ı	-	-	-	-	-	-	1	
-	ı	-	-	1	-	ı	-	-	-	-	ı	-	ı	
1	1	-	-	-	-	-	-	-	-	-	-	-	-	
		1	N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	T		1
#10	) Bar Be	nd Test	Throug	h 180°	is Satist	factory	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,
Assistant Manager Coordination
Izhar Construction (Pvt) Ltd
Plastic Paint Shop Building at Hyundai Nishat Motor Pvt. Limited, Faisalabad

Reference # CED/TFL <u>35156 (Dr. Waseem Abbass)</u>

Reference of the request letter # ICPL/CONST-HNMPL/21/022

Dated: 02-03-2021

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

Date of Test 03-03-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in²)		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)	% E	Re
1	0.399	10	9.81	0.12	0.117	3600	4900	66138	67720	90021	92200	1.00	12.5	FF Steel
2	0.406	10	9.91	0.12	0.119	3700	5100	67975	68280	93696	94200	1.30	16.3	Ste
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
							Bend T	est						
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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