# NERWOOD OF STREET

## 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, Sambrial Sialkot Establishment of University of Applied Engineering and Emerging Technologies (UAEET) Sambrial, Sialkot

Reference # CED/TFL 2311 (Dr. M Kashif)

Dated: 18-11-2022

Reference of the request letter # ER/UAEET/ACE/2022/90 Dated: 17-11-2022

**Tension Test Report** (Page – 1/2)

Date of Test 25-11-2022

Gauge length -----

Description Chain Link Fence Wire Tensile Test

Sr. No.	Measure Diameter of Single Wire	Breakir	ng Load	Remarks
	(mm)	(kg)	(kN)	
1	2.90	400	3.92	
2	2.90	320	3.14	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
	Only	Two Samples for	r Test	•

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 ACE Limited, Sambrial Sialkot Establishment of University of Applied Engineering and Emerging Technologies (UAEET) Sambrial, Sialkot

Reference # CED/TFL **2311** (Dr. M Kashif) Dated: 18-11-2022

Reference of the request letter # ER/UAEET/ACE/2022/90 Dated: 17-11-2022

**Tension Test Report** (Page – 2/2)

Date of Test 25-11-2022 Gauge length 2 inches

Description GI Pipe Strip Tensile and Bend Test

Sr. No.	Designation	0	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inc	h)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)	0	
1	GI pipe	2	27.30x1.40	38.22	1200	2040	308	524	0.50	25.00	
2	GI pipe	3.5	27.20x1.50	40.80	1040	1520	250	365	0.50	25.00	
-	-	ı	-	-	-	ı	-	-	ı	-	
-	-	1	-	-	-	1	-	-	1	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
	<u> </u>	Onl	y Two Samples	s for Tens	ile and T	wo Sampl	es for Be	end Test			
				В	end Test						

Strip taken from GI Pipe 2" Bend Test Through 180° is Satisfactory

Strip taken from GI Pipe 3.5" Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Assistant Executive Engineer-II CCD, PAK.PWD. Gujranwala

Renovation / Refurbishment / Up-Gradation of Existing Boundary Wall of Land of NHMP (N-5) Beat No. 09 Mouza Aujla Kalan, District Gujranwala.

Reference # CED/TFL 2331 (Dr. M Kashif)

Dated: 22-11-2022

Reference of the request letter # AEE-II/CCD/GA/Work/GA/Work/NHMP/B-9/Lab/79

Dated: 18-11-2022

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

Date of Test 25-11-2022 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)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	<b>3</b> %	Re
1	0.396	3	0.385	0.11	0.116	3100	4600	62200	58720	92200	87200	1.60	20.0	
2	0.389	3	0.382	0.11	0.114	3000	4600	60200	57790	92200	88700	1.30	16.3	
-	ı	1	-	1	-	-	1	-	-	-	-	-	ı	
-	ı	1	-	1	-	-	1	-	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer Bilding Sub Division Hafizabad

(Upgradation of D.H.Q. Hospital Hafizabad (Group No. 1) Construction of Main Hospital Block No.1 I/C Covered Passage between Block No. 1 & Block No. 2)

Reference # CED/TFL **2334** (Dr. M Kashif) Reference of the request letter # 1865/HZ

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
<b>3</b> 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.375	3/8	0.375	0.11	0.110	3400	4800	68200	67970	96200	96000	1.50	18.8	
2	0.369	3/8	0.372	0.11	0.109	3300	4700	66200	67000	94200	95500	1.40	17.5	
-	-	ı	-	-	-	-	-	-	-	-	-	-	-	
ı	-	ı	-	-	-	ı	-	-	-	-	-	-	ı	
ı	1	ı	-	-	-	ī	-	-	-	-	ı	-	ı	
ı	-	ı	-	-	-	ı	-	-	-	-	-	-	ı	
		Note: only two samples for tensile and one sample for bend test												
							Bend T	est						
3/8	" Dia Ra	ar Rend	Test Tl	rough	180° is 9	Satisfacto		CSI						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 23-11-2022

Dated: 22-11-2022

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

To,

Abdul Qadir Ali Lahore

Reference # CED/TFL 2335 (Dr. M Kashif)

Reference of the request letter # Nil

Dated: 23-11-2022

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	Aı (iı	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)	% E	Re
1	0.388	3	0.381	0.11	0.114	3500	5100	70200	67650	102200	98600	1.10	13.8	S.J Steel
2	0.387	3	0.380	0.11	0.114	3600	5200	72200	69800	104200	100900	1.10	13.8	Ste
-	-	-	-	-	-	-	-	-	-	-	-	-	ı	
-	ı	1	-	1	-	-	-	1	-	-	-	-	1	
-	ı	1	-	1	ı	-	-	1	-	-	-	-	1	
-	ı	ı	-	ı	ı	-	-	ı	-	-	-	-	ı	
		Note: onl				amples f	or tensile	and one	sample f	or bend	test			
		1	1	10001			Bend T	est						

#3 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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Project Engineer Defence Housing Authority Gujranwala

"Construction of Office Complex DHA Gujranwala"

Reference # CED/TFL 2336 (Dr. M Kashif)

Reference of the request letter # 111/3/PE JV Bldgs/Gen/07

Dated: 23-11-2022

Dated: 22-11-2022

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

Date of Test 25-11-2022 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)		te Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.340	3	0.357	0.11	0.100	4000	4700	80200	88260	94200	103800	0.80	10.0	co Sel
2	0.355	3	0.364	0.11	0.104	4400	5100	88200	93020	102200	107900	0.80	10.0	Afco Steel
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Note: only two samples for tensile and one sample for bend test											
							Bend T	<u>'est</u>						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,
Procurement Manager
Premier Developers & Builders
Lyallpur Galleria-II near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL 2338 (Dr. M Kashif)

Reference of the request letter # LG-II/032

Dated: 23-11-2022

Dated: 22-11-2022

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

Date of Test 25-11-2022 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)		ee Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.377	3	0.376	0.11	0.111	3600	4900	72200	71620	98200	97500	0.90	11.3	ت el
-	-	-	-	-	-	-	-	-	-	-	-	-	-	FF Steel
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
ı	ı	ı	-	ı	-	ı	-	1	-	-	-	-	ı	
1	1	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	_	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est			
Bend Test														
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory	Delia 1	CSI						

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

To,

Sub Divisional Officer Bilding Sub Division Chakwal

(Construction of Multipurpose Conference Hall Auditorium and Restaurant at Kallar Kahar District Chakwal)

Reference # CED/TFL **2341** (Dr. M Kashif) Reference of the request letter # 1430/CKC

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

Date of Test 25-11-2022 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	0.377	3/8	0.376	0.11	0.111	4400	5200	88200	87500	104200	103500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	1	-	ı	-	-	-	-	-	-	ı	
-	-	1	-	ı	-	ı	-	-	-	-	-	-	ı	
-	-	ı	-	ı	-	ı	-	-	-	-	-	-	ı	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample fo	or bend t	est	1		
3/8	" Dia Ra	ar Rend	Test Tl	ารกบส์	180° is 5	Satisfacto	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 23-11-2022

Dated: 14-10-2022

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

To,

Sub Divisional Officer Bilding Sub Division Chakwal

(Establishment of University of Chakwal ADP No. 66 for The Year 2020-21)

(Construction of Female Student Hostel Ground / First Floor with Additional Items &

Architectural Features Group No. 3

Reference # CED/TFL **2341** (Dr. M Kashif) Reference of the request letter # 559/CKC

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

Date of Test 25-11-2022 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	Re
1	0.366	3/8	0.370	0.11	0.108	2900	4200	58200	59400	84200	86100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	_	ı	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	-	-	-	-	-	-	
1	-	ı	-	-	-	ı	ı	-	-	-	-	-	ı	
ı	-	ı	-	ı	-	ī	ı	-	-	-	ı	-	ı	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est			
							D 17							<u> </u>
2/0	" D: - D-	D d	T4 T1	1.	1000:~ (	Satisfacto	Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 23-11-2022

Dated: 15-04-2022

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

To,

Khalid M. Noon 211-C Phase 8 DHA, Lahore

Reference # CED/TFL 2342 (Dr. M Kashif)

Reference of the request letter # 211C/DHA 01

Dated: 24-11-2022

Dated: 23-11-2022

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

Date of Test 25-11-2022 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)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.373	3	0.373	0.11	0.110	3700	4600	74200	74460	92200	92600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	1		
112	Rar Ren	170 - 7	D1 1	1000:	G 4: C		Bend T	est						

#3 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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Sr. Manager Coordination
Dream Builders
Construction of Apartment Building at 32-P, Model Town Ext, Lahore

Reference # CED/TFL **2344** (Dr. M. Kashif)

Reference of the request letter # DB/CONST-32P/22/1124

Dated: 24-11-2022

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

Date of Test 25-11-2022 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)	% E	Re
1	0.360	3	0.367	0.11	0.106	3400	5100	68200	70920	102200	106400	1.20	15.0	
2	0.359	3	0.367	0.11	0.106	3300	5100	66200	68930	102200	106600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			
#2	Don Don	d Tost T	Fh. man at	. 1900 :	Satisfa	untom.	Bend T	est						
#3	Bar Ben	a lest	ınrough	1 180° 18	s Satisfa	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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer ZEERUK – LOYA – MIHA JV

Construction of Korang Bridge & About 1.5 km Approach Road on Islamabad Highway

Reference # CED/TFL <u>2345 (Dr. M Kashif)</u>
Reference of the request letter # ZI/RE.FWO-RB/22/196

Reference of the request letter # ZI/RE.FWO-RB/22/196 Dated: 24-11-2022

**Tension Test Report** (Page -1/5)

Date of Test 25-11-2022 Gauge length 640 mm

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

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause		stre	king ngth e (6.2)	Young's Modulus of Elasticity "E"	Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	0%	Rema
1	12.70 (1/2")	775.0	786.0	17300	169.71	19800	194.24	199	>3.50	24229
2	12.70 (1/2")	775.0	785.0	18100	177.56	19400	190.31	198	>3.50	24245
3	12.70 (1/2")	775.0	785.0	18400	180.50	19800	194.24	199	>3.50	24253
4	12.70 (1/2")	775.0	788.0	18400	180.50	20000	196.20	199	>3.50	24268
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_

Only four 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: 25-11-2022

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

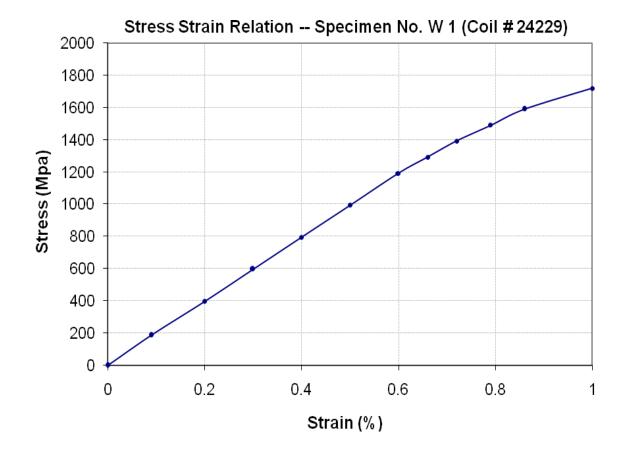
To,

Resident Engineer ZEERUK – LOYA – MIHA JV

Construction of Korang Bridge & About 1.5 km Approach Road on Islamabad Highway

Reference # CED/TFL <u>2345 (Dr. M Kashif)</u>
Reference of the request letter # ZI/RE.FWO-RB/22/196

**Graph** (Page – 2/5)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 24-11-2022

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

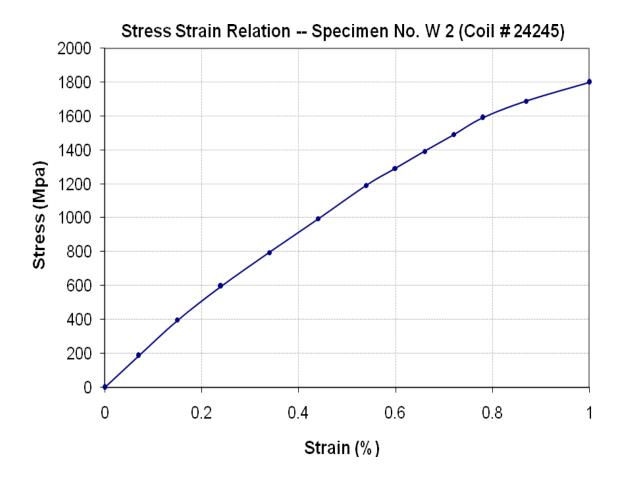
To,

Resident Engineer ZEERUK – LOYA – MIHA JV

Construction of Korang Bridge & About 1.5 km Approach Road on Islamabad Highway

Reference # CED/TFL <u>2345 (Dr. M Kashif)</u>
Reference of the request letter # ZI/RE.FWO-RB/22/196

**Graph** (Page -3/5)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 24-11-2022

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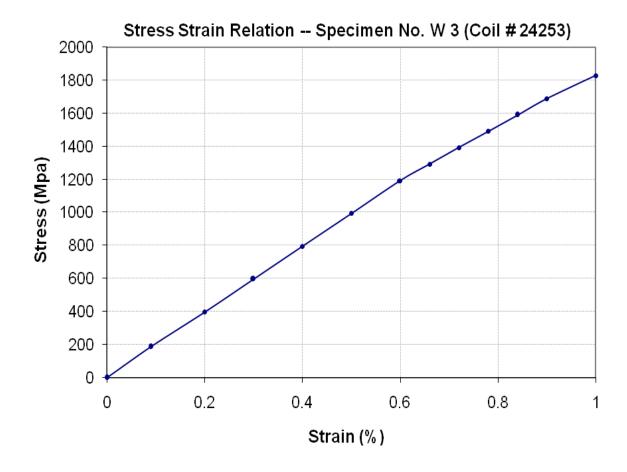
To,

Resident Engineer ZEERUK – LOYA – MIHA JV

Construction of Korang Bridge & About 1.5 km Approach Road on Islamabad Highway

Reference # CED/TFL <u>2345 (Dr. M Kashif)</u> Reference of the request letter # ZI/RE.FWO-RB/22/196

**Graph** (Page – 4/5)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 24-11-2022

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

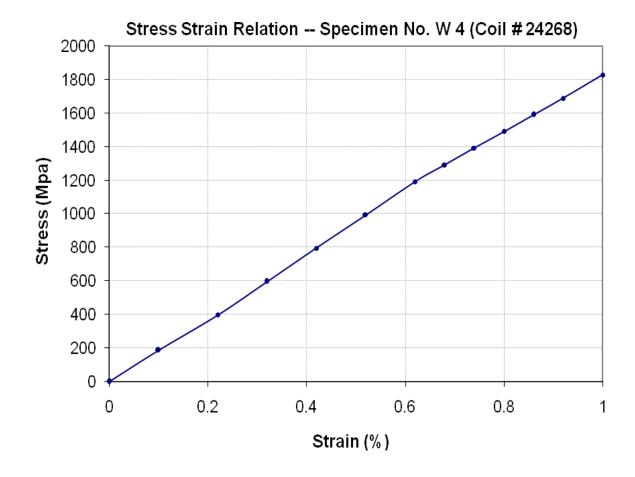
To,

Resident Engineer ZEERUK – LOYA – MIHA JV

Construction of Korang Bridge & About 1.5 km Approach Road on Islamabad Highway

Reference # CED/TFL <u>2345 (Dr. M Kashif)</u>
Reference of the request letter # ZI/RE.FWO-RB/22/196

**Graph** (Page – 5/5)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 24-11-2022

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

To,

Construction Manager
Zameen Quadrangle

Construction of Zameen Quadrangle at Plot No. 49 Gulberg-V, Zafar Ali Road, Lahore

Reference # CED/TFL <u>2346 (Dr. M Kashif)</u>
Reference of the request letter # ZD/ZQ/GSW/038

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size					Xield load (iu <sub>2</sub> )		Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R		
1	0.371	3	0.373	0.11	0.109	3300	4900	66200	66660	98200	99000	1.30	16.3	eel		
2	0.370	3	0.372	0.11	0.109	3400	4900	68200	68970	98200	99400	1.00	12.5	Ittefaq Steel		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ittef		
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test					
							Bend T	est est								
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory										

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 24-11-2022

Dated: 24-11-2022

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

To,
Project Manager
Union Developers
Construction of Union Luxury Apartments, Etihad Town, Lahore

Reference # CED/TFL 2347 (Dr. M Kashif)

Reference of the request letter # UA/SO/2022/033

Dated: 24-11-2022

Dated: 23-11-2022

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Feaking Load Airchard		Ultimate Stress (psi)		Elongation	% Elongation	Remarks						
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R						
1	0.357	3	0.366	0.11	0.105	4400	5200	88200	92320	104200	109100	0.70	8.8	Afco Steel						
2	0.358	3	0.366	0.11	0.105	4700	5400	94200	98470	108200	113200	0.70	8.8	Af						
3	0.367	3	0.370	0.11	0.108	4700	5400	94200	96110	108200	110500	0.70	8.8							
4	0.375	3	0.374	0.11	0.110	5000	5800	100200	100100	116300	116200	0.60	7.5							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
			No	te: only	four s	amples fo	or tensile	and two	samples	for bend	test									
							Bend T	`est												
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory														
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory		#3 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
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# Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Chief Technical Officer Sheikhoo Sugar Mills (Steel Division) Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2349** (Dr. M Kashif) Reference of the request letter #Nil

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

Date of Test 25-11-2022 Gauge length 8 inches

Description Deformed Steel ;Bar Tensile Test as per ASTM-A615

Sr. No.	Size Size (mm		ze	Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.418	10	10.05	0.12	0.123	3740	5400	68710	67110	99207	96900	1.40	17.5	482N
2	0.418	10	10.04	0.12	0.123	3820	5350	70180	68590	98288	96100	1.00	12.5	483N
3	0.409	10	9.94	0.12	0.120	3670	5100	67424	67210	93696	93400	1.40	17.5	493N
4	0.415	10	10.01	0.12	0.122	3870	5320	71098	69940	97737	96200	1.50	18.8	495N
5	0.415	10	10.01	0.12	0.122	3930	5320	72201	71060	97737	96200	1.50	18.8	496N
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only five samples for tensile test													
							Bend	Test						

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 24-11-2022

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

To,

Project Manager Alkhidmat Foundation Pakistan Aghash Gilgit Hostel

Reference # CED/TFL <u>2350 (Dr. Asad Ali)</u> Reference of the request letter # AKFP-D-781

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	is si		Diameter/ Size (inch)		Size		Size		Size		Area (in²)		Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
<b>S</b>	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R						
1	0.371	3/8	0.373	0.11	0.109	3820	5050	76600	77140	101200	102000	1.10	13.8							
2	0.367	3/8	0.371	0.11	0.108	3840	5070	77000	78500	101600	103700	1.20	15.0							
-	-	-	-	-	-	-	_	-	-	-	-	-	-							
-	-	-	-	-	-	-	_	-	-	-	-	-	-							
-	-	-	-	-	-	-	_	-	-	-	-	-	-							
-	-	-	-	-	-	-	_	-	-	-	-	-	-							
	Note: only two samples for tensile and one sample for bend test																			
							Bend T	est												
3/8	" Dia Ba	ar Bend	Test Th	rough	180° is \$	Satisfacto	ory													

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-11-2022

Dated: 19-11-2022

- 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 ACE Limited, Sambrial Sialkot Establishment of University of Applied Engineering and Emerging Technologies (UAEET) Sambrial, Sialkot

Reference # CED/TFL **2351** (Dr. Asad Ali)

Reference of the request letter # ER/UAEET/ACE/2022/108

Dated: 25-11-2022

Dated: 25-11-2022

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

Date of Test 25-11-2022 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size			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)	% E	Re
1	0.388	3	0.381	0.11	0.114	3770	5200	75600	72910	104200	100600	1.10	13.8	r- Te
2	0.390	3	0.382	0.11	0.115	4100	5420	82200	78790	108600	104200	1.10	13.8	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend	test	1		1
#2	Don Don	d Tost 7	Flamou -1	1000:	Satisfa	otowy.	Bend T	est						
#3	Bar Ben	a rest	ınrough	1 180° 18	s Satisfa	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
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