

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

To,

Project Director (HVDC)

NTDC Lahore

(HVDC Transmission Line in Lot-08)

Reference # CED/TFL **34146** (Dr. M Rizwan Riaz)

Reference of the request letter # 2227-31/PD/HVDC/NTDC/LHR

Dated: 07-11-2019

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

Date of Test 11-11-2019 Gauge length 8 inches

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

Sr. No.	Maria Diameter/size			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)	H %	R
1	0.374	3	0.374	0.11	0.110	3500	4800	70200	70100	96200	96200	1.30	16.3	
2	0.372	3	0.373	0.11	0.109	3300	4600	66200	66470	92200	92700	1.00	12.5	
3	0.376	3	0.375	0.11	0.111	3500	4900	70200	69780	98200	97700	1.30	16.3	
4	4.133	10	1.244	1.27	1.215	40000	55200	69500	72580	95800	100200	1.20	15.0	
5	4.148	10	1.246	1.27	1.219	44400	57600	77100	80260	100000	104200	1.10	13.8	
6	4.148	10	1.246	1.27	1.219	40800	54600	70900	73760	94800	98700	1.30	16.3	
	1	T	N	ote: on	ly six sa	amples fo	or tensile	and six s	amples f	or bend t	est	ı		
							D 17							<u> </u>
#2	Bar Ben	d Tost	Through	1900:	Coticfo	atomi	Bend T	est						
-	Bar Ben													
	Bar Ben					•								
#10	#10 Bar Bend Test Through 180° is Satisfactory													
#10	) Bar Be	nd Test	Throug	gh 180°	is Satist	factory								
#10	) Bar Be	nd Test	Throug	gh 180°	is Satisf	factory								

Witness by Umair Aslam (NTDC), M. Abbas (OE) & Dr. Ali Adnan (CET Lot-7, 8)

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 Defence Housing Authority. Lahore Cantt

(Const of New Water Filtration Plant in Sector - DD, DHA Ph-VI (M/s AM Builders)

Reference # CED/TFL **34148** (Dr. M Rizwan Riaz) Dated: 08-11-2019

Reference of the request letter # 408/241/E/Lab/760 Dated: 06-11-2019

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

Date of Test 11-11-2019 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	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	0.374	3	0.374	0.11	0.110	2900	4300	58200	58080	86200	86200	1.20	15.0	1				
2	0.380	3	0.377	0.11	0.112	3100	4600	62200	61120	92200	90700	0.80	10.0	Model Steel				
-	-	-	-	-	-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-	-	-	-	-	-					
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			•				
							Bend T	est										
#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
- 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, Sub Divisional Officer Building Sub Division No. 2 Gujrat

(Construction of Judicial Rest House in Session Court Gujrat)

Reference # CED/TFL **34151** (Dr. M Rizwan Riaz)

Reference of the request letter # 130/G2/G

Dated: 08-11-2019

Dated: 01-10-2019

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

Date of Test 11-11-2019
Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		Area (in²)		(in <sup>2</sup> )		Breaking Load		Stress si)		te Stress si)	Elongation	Elongation	Remarks
S	(lbs/ft)	Nominal	Actual		Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R		
1	0.376	3/8	0.375	0.11	0.111	3400	4600	68200	67720	92200	91700	1.20	15.0			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	ı	ı	N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	1	ı			
3/8	" Dia Ra	er Rend	Test Ti	rough	180° is 9	Satisfacto	Bend T	est								
3/8	- S" Dia Ba	- ar Bend				sample fo	Bend T		sample fo	- or 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 Director-II Building Research Station Lahore (Madina Steel)

Reference # CED/TFL **34154** (Dr. M Rizwan Riaz) Dated: 08-11-2019

Reference of the request letter # 154-R/3059 Dated: 05-11-2019

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

Date of Test 11-11-2019 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size (inch)  Area (in²)			Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	Elongation	Grade	
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	
1	0.372	3/8	0.373	0.11	0.109	3100	5200	62200	62410	104200	104700	1.20	15.0	60
2	0.380	3/8	0.377	0.11	0.112	2900	4300	58200	57290	86200	85000	1.30	16.3	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: onl	y two sa	amples fo	r tensile	and two	samples	for bend	test	· · · · · · · · · · · · · · · · · · ·		
2.10	"D' D	D 1	T. (E)	1	1000: 6	Satisfacto	Bend T	'est						

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

3/8" 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

# STATE OF THE PARTY OF THE PARTY

## 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 Peach Club Faisalabad (The Qube – Project)

Reference # CED/TFL **34159** (Dr. M Rizwan Riaz)

Reference of the request letter # Nil

Dated: 11-11-2019

Dated: 11-11-2019

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

Date of Test 11-11-2019 Gauge length 8 inches

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

Sr. No.		Diameter/ size										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)	% E	R						
1 (	0.425	3	0.399	0.11	0.125	4600	5800	92200	81200	116300	102400	1.10	13.8							
2 (	0.424	3	0.398	0.11	0.125	4700	5900	94200	83100	118300	104400	0.90	11.3							
-	-	•	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	-	-	-	-	-	-	-	-	-	-	-							
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	est	ı								
#3 R	ear Ren	d Test T	Chrough	180° i	s Satisfa	ctory	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