

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

Ref: <u>CED/TFL/12/2442</u> Dated of Test: <u>16-12-2022</u> Dated: 13-12-2022

То

# Assistant Project Director PMU-SBP (Faisalabad) Tehsil Sports Complex Bhawana, District Chiniot. (GS # 644)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/2)

Reference to your letter No. APD/PMU/SBP/TEST/420, dated 06.10.2022

on the subject cited above. One R.C.C. Pipe as received by us have 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.76	7.32	10.87	8.47	1.20	3700	5800	1577	2472

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

2. The above results pertain to sample /samples supplied to this laboratory.



То

#### STRUCTURAL ENGINEERING DIVISION

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

Ref: <u>CED/TFL/12/2442</u>

Dated: 13-12-2022

Dated of Test: 16-12-2022

# Assistant Project Director PMU-SBP (Faisalabad) Construction of Tehsil Sports Complex Dijkot, Faisalabad. (GS # 635)

#### Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/2)

Reference to your letter No. APD/PMU/SBP/TEST/462, dated 18.11.2022

on the subject cited above. One R.C.C. Pipe as received by us have 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.81	7.32	10.94	8.63	1.16	3500	6500	1465	2720

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

2. The above results pertain to sample /samples supplied to this laboratory.



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

To,

Resident Engineer (RRWP-II) PEAS Consulting (Pvt) Ltd Rawat – Rawalpindi Widening Project (RRWP) – Phase – II Conserof 2-Lane Lai and Swan Bridges to 04-Lane Bridges

Reference # CED/TFL <u>2445 (Dr. M Kashif)</u> Reference of the request letter # PEAS/NHA/RE/2022/330 Dated: 14-12-2022 Dated: 13-12-2022

# Tension Test Report(Page -1/4)Date of Test16-12-2022Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	trength e (6.3)	Brea strei clause	king ngth e (6.2)	Young's Modulus of Elasticity "E"	Elongation	rks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	775.0	781.0	17700	173.64	19300	189.33	199	>3.50	XX
2	12.70 (1/2")	775.0	781.0	17100	167.75	19400	190.31	198	>3.50	XX
3	12.70 (1/2")	775.0	781.0	17500	171.68	19400	190.31	199	>3.50	XX
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
				Only three s	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:

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.



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

To,

Resident Engineer (RRWP-II) PEAS Consulting (Pvt) Ltd Rawat – Rawalpindi Widening Project (RRWP) – Phase – II Conserof 2-Lane Lai and Swan Bridges to 04-Lane Bridges

Reference # CED/TFL <u>2445 (Dr. M Kashif)</u> Reference of the request letter # PEAS/NHA/RE/2022/330 Dated: 14-12-2022 Dated: 13-12-2022

#### Graph (Page - 2/4)



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 (RRWP-II) PEAS Consulting (Pvt) Ltd Rawat – Rawalpindi Widening Project (RRWP) – Phase – II Conserof 2-Lane Lai and Swan Bridges to 04-Lane Bridges

Reference # CED/TFL <u>2445 (Dr. M Kashif)</u> Reference of the request letter # PEAS/NHA/RE/2022/330 Dated: 14-12-2022 Dated: 13-12-2022

Graph (Page – 3/4)



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 (RRWP-II) PEAS Consulting (Pvt) Ltd Rawat – Rawalpindi Widening Project (RRWP) – Phase – II Conserof 2-Lane Lai and Swan Bridges to 04-Lane Bridges

Reference # CED/TFL <u>2445 (Dr. M Kashif)</u> Reference of the request letter # PEAS/NHA/RE/2022/330 Dated: 14-12-2022 Dated: 13-12-2022

Graph (Page - 4/4)



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

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

To,

Material Engineer Banu Mukhtar Contracting (Pvt) Ltd. Masjid Ibrahim, Gajju Matta

Reference # CED/TFL **<u>2446</u>** (Dr. M Kashif) Reference of the request letter # BMC/MAIB/002 Dated: 14-12-2022 Dated: 14-12-2022

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

Date of Test Gauge length Description 16-12-2022 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	Weight	Dian Si	neter/ ze	Aı (iı	rea n²)	Yield load	Breaking Load	Yield (p	Stress si)	Ultimat (p	te Stress si)	Elongation	longation	emarks
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	4000	5200	80200	79540	104200	103400	0.90	11.3	
2	0.378	3	0.376	0.11	0.111	3900	5100	78200	77450	102200	101300	1.00	12.5	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		
							Bend T	est						
#3	Bar Ben	d Test	Through	n 180° i	s Satisfa	ictory								

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

2. The above results pertain to sample /samples supplied to this laboratory.



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

Ref: <u>CED/TFL/12/2447</u>

Dated: 14-12-2022

Dated of Test: 16-12-2022

То

Project Manager CCECC-SALMAN Jv Establishment of University of Applied Engineering and Emerging Technology (UAEET), Sambrial

# Subject: - CALIBRATION OF LOAD CELL (Page -1/1)

Reference to your Letter No. CCECC&S-JV/UAEET/SAMBRIAL/L-186, Dated: 08/08/2022 on the subject cited above. One Load Cell(Load Cell Make: W.T.S., UK, Sr. No. W14502, Load Cell Model No. W14502 Rated Capacity 1500 Tons) against Ref. load cell no. 3766 make Huggenberger. The results are tabulated as under:

Calibrated Load (tons)	13	90	180	270	360	450.9	540	634.3	720.2	818	900	910.7
Load Cell readnig (mV/V)	31.2	131.2	257.2	385	511.8	628.4	752.7	878.25	1002.2	1146.7	1280.75	1299.95



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, Senior Project Manager Shifa Development Services Pvt Ltd Under Construction Site of Shifa National Hospital Opposite Al-Qadir Garden, Lahore Sheikhupura Road, Faisalabad

Reference # CED/TFL **<u>2448 (Dr. M Kashif)</u>** Reference of the request letter # SNHF/SDS/ST/13 Dated: 14-12-2022 Dated: 14-12-2022

# Tension Test Report(Page -1/1)Date of Test16-12-2022Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

k. No.	Weight	Dian Si (in	neter/ ize ch)	Aı (iı	rea n²)	Yield load	Breaking Load	Yield (p	Stress si)	Ultimat (p	e Stress si)	Elongation	longation	emarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.379	3/8	0.377	0.11	0.111	3800	5100	76200	75190	102200	101000	1.10	13.8	u
2	0.372	3/8	0.373	0.11	0.109	3800	5200	76200	76580	104200	104800	0.90	11.3	k Iro
3	0.379	3/8	0.377	0.11	0.111	3900	5000	78200	77100	100200	98900	1.10	13.8	Pa
4	0.375	3/8	0.375	0.11	0.110	3700	4800	74200	73940	96200	96000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	<b>-</b>		No	te: only	y four s	amples f	or tensile	and two	samples	for bend	test			
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Tl	rough	180° is S	Satisfacto	ory							
3/8	" Dia Ba	ar Bend	Test Tl	nrough	180° is \$	Satisfacto	ory							

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.
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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 Projects Izhar Construction (Pvt) Ltd Construction of Riphah Medical City Gulberg Greens Islamabad (Retaining Piles)

Reference # CED/TFL 2449 (Dr. M Kashif)	Dated: 14-12-2022
Reference of the request letter # IZHAR/RIPHAH/021/2022	Dated: 12-12-2022

# **Tension Test Report** (Page – 1/1)

Date of Test16-12-2022Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	rength (6.3)	Breal strength (6.2	king clause 2)	% Elongation	arks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		Rema
1	12.70 (1/2")	775.0	781.0	17800	174.62	19500	191.30	>3.50	XX
2	12.70 (1/2")	775.0	782.0	18000	176.58	19400	190.31	>3.50	XX
3	12.70 (1/2")	775.0	785.0	17900	175.60	19500	191.30	>3.50	XX
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
			Onl	y three sampl	es for 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

Ref: <u>CED/TFL/12/2451</u>

Dated: 14-12-2022

Dated of Test: 16-12-2022

То

### Assistant Director (QCD) WASA, LDA, Lahore (M/s Busmillah RCC Pipe Factory)

# Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/12/2451)

Reference to your Letter No. QCD/2338-39, Dated: 28/11/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range	:	Zero -	76 (Ton)
<b>Calibrated Range</b>	:	Zero -	60 (Ton)

Hydraulic Ja (Ton)	ick Reading	1	5	10	15	20	25	30	35	40	45	50	55	60
Calibrated	(kg)	0	6067	10467	14200	18333	22467	26767	31133	35267	39567	44533	48467	52600
d	(Ton)	0	6.68	11.52	15.64	20.19	24.74	29.47	34.28	38.83	43.57	49.04	53.37	57.92



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



Description

#### 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 Rupafil Limited Lahore

Reference # CED/TFL **<u>2453</u>** (Dr. M Kashif) Reference of the request letter # Nil Dated: 15-12-2022 Dated: 14-12-2022

# Tension Test Report(Page -1/1)Date of Test16-12-2022Gauge length8 inches

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

r. No.	Weight	Dian Si (in	neter/ ze ch)	Aı (iı	rea n²)	Yield load	Breaking Load	Yield (p	Stress si)	Ultimat (p	e Stress si)	Elongation	longation	emarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.413	3/8	0.393	0.11	0.121	4300	5200	86200	78060	104200	94400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		[	N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est			
							Bend T	`est						
3/8	" Dia Ba	ar Bend	Test Tl	nrough	180° is \$	Satisfacto	ory							

#### 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

2. The above results pertain to sample /samples supplied to this laboratory.



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

To,

Manager Civil Nishat Mills Limited Dyeing & Finishing Plant, Lahore "Construction of Fabric Godown Extension Unit 35" Lahore

Reference # CED/TFL **<u>2454</u>** (Dr. M Kashif) Reference of the request letter # NDF/FGST/002 Dated: 15-12-2022 Dated: 13-12-2022

# Tension Test Report(Page -1/1)Date of Test16-12-2022Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

ir. No.	Weight	Diam Si (m	neter/ ze m)	Aı (iı	rea 1 <sup>2</sup> )	Yield load	Breaking Load	Yield (p	Stress si)	Ultimat (p	e Stress si)	Elongation	longation	emarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.406	10	9.91	0.12	0.119	4000	5600	73487	73810	102881	103400	1.30	16.3	el
2	0.403	10	9.87	0.12	0.119	4000	5400	73487	74340	99207	100400	1.30	16.3	n Ste
-	-	-	-	I	-	-	-	-	-	-	-	-	-	imrai
-	-	-	-	I	-	-	-	-	-	-	-	-	-	Ka
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
													]	
							Bend T	est						
10r	nm Dia I	Bar Bei	nd Test	Throug	h 180° i	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
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#### Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

XEN GE (Air) Lahore Rehabilitation of 101 Building (Phase-X) at PAF Base Lahore

Reference # CED/TFL <u>2456 (Dr. M Kashif)</u> Reference of the request letter # 6744/14/E-6 Dated: 15-12-2022 Dated: 17-11-2022

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

Date of Test Gauge length Description 16-12-20228 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	ਸ਼ Diameter/ Size ≥ (inch)		Area (in²)		Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	ongation	emarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.373	3/8	0.374	0.11	0.110	3200	5200	64200	64260	104200	104500	1.30	16.3	
2	0.361	3/8	0.367	0.11	0.106	3200	5200	64200	66530	104200	108100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1	N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend	test	1		
Bend Test														
3/8	" Dia Ba	ar Bend	Test Tl	nrough	180° is \$	Satisfacto	ory							

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

2. The above results pertain to sample /samples supplied to this laboratory.



#### 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 Sargodha Khushab Mianwali Road (Group-IV from km 244.81 to 267.37 = 22.56km)

Reference # CED/TFL <u>**2457** (Dr. M Kashif)</u> Reference of the request letter # RE/4376-E/MH/4d/176 Dated: 15-12-2022 Dated: 08-12-2022

# Tension Test Report(Page -1/1)Date of Test16-12-2022Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		eter/ Ar ze (in		Area (in²)		Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R		
1	0.377	3	0.376	0.11	0.111	3400	4400	68200	67590	88200	87500	1.40	17.5	le		
2	0.378	3	0.376	0.11	0.111	3500	4400	70200	69490	88200	87400	1.70	21.3	prem		
-	-	-	-	I	-	I	-	-	-	-	I	-	-	Su		
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	I	-	I	-	-	-	-	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1				
							Bend T	est								
#3	Bar Ben	d Test [	Through	n 180° i	s Satisfa	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, Assistant Director Defence Housing Authority Gujranwala "Sector G"

Reference # CED/TFL **<u>2458</u>** (Dr. M Kashif) Reference of the request letter # 111/15/AD/RS/Pkg-2B/1063 Dated: 15-12-2022 Dated: 14-12-2022

# Tension Test Report (Page -1/1)Date of Test16-12-2022Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		eter/ Ar ze (ii		Area (in²)		Yield load	Breaking Load	Breaking Load Mield Strea (psi) B		Ultimat (p	Elongation	longation	emarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	R	
1	0.370	3	0.372	0.11	0.109	3800	4500	76200	76970	90200	91200	1.20	15.0	ion eel	
2	0.371	3	0.373	0.11	0.109	3800	4600	76200	76730	92200	92900	1.10	13.8	Un Sto	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	T	1	-	
							Bend T	est							
#3	Bar Ben	d Test 7	Through	n 180° is	s Satisfa	ictory									

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, Orbit Housing The Spring Apartment Homes

Reference # CED/TFL **<u>2459</u>** (Dr. Asad Ali) Reference of the request letter# NIL Dated: 16-12-2022 Dated: 16-12-2022

# Tension Test Report(Page -1/1)Date of Test16-12-2022Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	, the Diame		neter/ ize	Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
	(lls/fl)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.375	3	0.374	0.11	0.110	3440	4810	69000	68870	96400	96300	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3420	4810	68600	69060	96400	97200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	I	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	I	-	-	-	-	-	-	-	
		1	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		1
														<u> </u>
	Bend Test													
#3	Bar Ben	d Test	Through	n 180° i	s Satisfa	ictory								

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

2. The above results pertain to sample /samples supplied to this laboratory.