

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

To,

Sub Divisional Officer Highway Sub Division, D.G. Khan (Establishment of Highway Complex DG Khan)

Reference # CED/TFL **5646** (Dr. M Kashif) Dated: 11-09-2024

Reference of the request letter # RD-4/1400 Dated: 09-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si	neter/ ze		rea n²)	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)	<b>3</b> %	Re
1	0.376	3	0.375	0.11	0.111	3900	4800	78200	77760	96200	95700	1.00	12.5	
2	0.375	3	0.374	0.11	0.110	4000	4800	80200	80070	96200	96100	1.00	12.5	
-	-	-	ı	ı	-	ı	-	-	-	-	-	1	ı	
-	-	-	ı	-	-	-	-	-	-	-	-	-	-	
-	-	-	1	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	<u>'est</u>						
#3	Bar Ben	d Test	Γhrough	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,

Dy. Director (Maint) M-4 National Highway Authority.

Faisalabad

(Contract No. WS-M4-439-2021-22 (NBC) km 180 of M/s Mushtaq & Sons Engineering Pvt Ltd. on Motorway M-4)

Reference # CED/TFL <u>5647 (Dr. M Kashif)</u>

Reference of the request letter # DD(Maint)/M-4/NH/23/1453A

Dated: 11-09-2024

Dated: 28-11-2023

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

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	rea n²)	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	Re
1	0.358	10	9.30	0.12	0.105	3300	5000	60627	69070	91858	104700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	1		Т	Т	No	te: only o	ne samp	le for ten	sile test	ı	1	1	T	
							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
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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,

Dy. Director (Maint) M-4 National Highway Authority. Faisalabad

(Contract No. WS-M4-440-2021-22 (SBC) km 180 of M/s SS Builders. on Motorway M-4)

Reference # CED/TFL <u>5647 (Dr. M Kashif)</u>

Reference of the request letter # DD(Maint)/M-4/NH/23/1454

Dated: 11-09-2024

Dated: 28-11-2023

**Tension Test Report** (Page -2/3) Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	rea n²)	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)	<b>3</b> %	Re
1	0.361	10	9.34	0.12	0.106	3400	5100	62464	70610	93696	106000	1.20	15.0	
-	-	ı	-	-	-	-	-	ı	-	-	-	-	-	
-	-	ı	-	ı	-	-	-	ı	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			ı	ı	No	te: only o	ne samp	le for ten	sile test	1	1		ı	
		Bend 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
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### Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Dy. Director (Maint) M-4 National Highway Authority. Faisalabad

(Contract No. WS-M4-441-2021-22 Aminpur (SBC) km 226 of M/s Waab Associates. on Motorway M-4)

Reference # CED/TFL <u>5647 (Dr. M Kashif)</u>
Reference of the request letter # DD(Maint)/M-4/NH/23/1633

Dated: 11-09-2024
Dated: 21-02-2023

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

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		·ea	Yield load	Breaking Load	Yield	Stress si)	Ultimat	te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.357	10	9.29	0.12	0.105	3400	5100	62464	71370	93696	107100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					No	te: only o	ne samp	le for ten	sile test	1	1	1		
	Bend 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
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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 Izhar Steel (Pvt) Ltd. Lahore (LPG Storage & Bottling Facility PARCO PEARL GAS)

Reference # CED/TFL <u>5650 (Dr. M Kashif)</u>

Reference of the request letter # ISPL-112-LET-00040

Dated: 11-09-2024

Dated: 11-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si	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	R
1	0.369	3	0.372	0.11	0.108	3800	4700	76200	77240	94200	95600	1.20	15.0	
2	0.369	3	0.372	0.11	0.108	3600	4600	72200	73180	92200	93500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	ı	-	ı	ı	-	1	-	-	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	N	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			ı
							Bend T	est est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

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,

Project Manager, HIGH-Q

Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL <u>5652 (Dr. M Kashif)</u>
Reference of the request letter # QC/HQ/CIVIL/233

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

Date of Test 12-09-2024 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)		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	Re
1	0.403	10	9.87	0.12	0.119	3900	5200	71650	72480	95533	96700	0.90	11.3	
2	0.405	10	9.89	0.12	0.119	4000	5300	73487	74100	97370	98200	1.20	15.0	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
10ı	nm Bar	Bend T	est Thro	ough 18	0° is Sa	tisfactory	7							
								<del>-</del>	<del>-</del>		<del>-</del>			

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 11-09-2024

Dated: 11-09-2024

- 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,

M/S AMC (Pvt) Ltd.

Lahore

(Enfrashare Rollout-2023, Site ID: EN1-PSW-08118, EC2-FSD-08774, EC1-SKG-

07812, EC1-LHR-08794)

Reference # CED/TFL **5655** (Dr. M Kashif)

Reference of the request letter# NIL

**Tension Test Report** (Page -1/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

	Weight	Si	neter/ ze m)	Aı (iı	rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
	0.367	10	9.42	0.12	0.108	3200	4800	58789	65350	88184	98100	0.80	10.0	
	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	1	-	1	-	-	-	-	-	-	-	-	-	
	-	1	-	1	-	-	-	-	-	-	-	-	-	
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							Bend T	est						
		-	-		- No	te: only o	- one samp Bend T		-					

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 11-09-2024

Dated: 01-09-2024

- 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,

M/S Safaa Engineering (Pvt) Ltd. Islamabad

Reference # CED/TFL <u>5655 (Dr. M Kashif)</u>

Reference of the request letter# NIL

Dated: 11-09-2024

Dated: 01-09-2024

**Tension Test Report** (Page -2/9)

Date of Test 12-09-2024
Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	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	0.366	10	9.40	0.12	0.108	3200	4800	58789	65510	88184	98300	1.20	15.0	
-	-	-	-	-	-	-	-	•	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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				Γ	No	te: only o	ne samp	le for ten	sile test	<b>T</b>	1	1		I
		Bend Test												

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,

M/S Zenith Associates.

Lahore

(Project: Engro Enfra Share, Site ID: 53474 (EN1-TKB-09147)

Reference # CED/TFL **5655** (Dr. M Kashif)

Dated: 11-09-2024 Reference of the request letter # Zinat Associate/Steel/Engro Enfra Share/01Dated: 05-06-2024

**Tension Test Report** (Page -3/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	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	0.369	10	9.44	0.12	0.109	3300	4900	60627	67000	90021	99500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	_	-	-	
-	-	-	-	-	-	-	-	-	-	-	_	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	_	-	
			T		No	te: only o	ne samp	le for ten	sile test	ı	1	1		
-							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
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### **Test Floor Laboratory Department of Civil Engineering** University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

M/S Safaa Engineering (Pvt) Ltd.

Islamabad

(TAWAL Rollout Site ID: TWPPSH0046)

Reference # CED/TFL 5655 (Dr. M Kashif)

Dated: 11-09-2024 Reference of the request letter# NIL Dated: 23-08-2024

**Tension Test Report** (Page -4/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	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)	<b>3</b> %	Re
1	0.367	10	9.42	0.12	0.108	3300	4900	60627	67380	90021	100100	1.00	12.5	
-	-	-	-	ı	-	-	ı	•	ı	-	-	-	-	
-	-	-	-	ı	ı	-	ı	ı	ı	ı	-	-	-	
-	-	-	-	1	-	-	•	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					No	te: only o	ne samp	le for ten	sile test					
		Bend Test												

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

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- 2. The above results pertain to sample /samples supplied to this laboratory.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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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 AJ Contractors

Lahore

(Project Tawal, Site ID: TWPGRW0016, TWPSGD0010, TWPBWN0009,

TWPJNG0013)

Reference # CED/TFL 5655 (Dr. M Kashif)

Dated: 11-09-2024

Reference of the request letter# AJ Constractor/Steel/Tawal/12

Dated: 09-08-2024

**Tension Test Report** (Page -5/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	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)	<b>3</b> %	Re
1	0.368	10	9.43	0.12	0.108	3200	4900	58789	65220	90021	99900	1.00	12.5	
-	-	-	-	-	-	•	-	-	-	-	-	-	-	
-	-	-	-	1	-	ı	-	-	-	-	-	-	1	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			ı		No	te: only o	ne samp	le for ten	sile test	T	ı	ı		
-							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
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### Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

M/S Sres Private Limited.

Islamabad

(B2S Project, Site ID: TWPLHR0241, TWPKWL0011, & TWPBWN0008)

Reference # CED/TFL <u>5655 (Dr. M Kashif)</u> Reference of the request letter# NIL Dated: 11-09-2024 Dated: 13-08-2024

**Tension Test Report** (Page -6/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		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)	<b>3</b> %	Re
1	0.366	10	9.40	0.12	0.108	3200	4900	58789	65580	90021	100500	1.00	12.5	
•	-	-	-	1	-	1	-	-	-	-	-	-	1	
-	-	-	-	1	-	1	-	-	-	-	-	-	ı	
•	-	-	-	1	-	1	-	-	-	-	-	-	1	
-	-	-	-	1	-	ı	-	•	-	-	-	-	ı	
-	-	-	-	1	-	ı	-	•	-	-	-	-	ı	
			Т		No	te: only o	ne samp	le for ten	sile test	T	T	ı		
							Bend T	est						

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,

M/S LCC Pakistan (Pvt) Ltd.

Islamabad

(Edotco Roll out Project, Site ID: NRO2024 CA 144, NRO2024 CB 405)

Reference # CED/TFL <u>5655 (Dr. M Kashif)</u> Reference of the request letter# NIL Dated: 11-09-2024 Dated: 01-09-2024

**Tension Test Report** (Page -7/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Diameter/ Size (mm)		ze	Aı (iı	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)	<b>3</b> %	Re
1	0.369	10	9.44	0.12	0.108	3200	4900	58789	65080	90021	99700	1.00	12.5	
-	-	-	-	-	-	-	-	ı	-	-	-	-	-	
-	-	-	-	ı			-	ı	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only one						ne samp	le for ten	sile test					
							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 Sres Private Limited.

Islamabad

(B2S Project, Site ID: NRO2024 CB 132 (e.coPK019658PU)

Reference # CED/TFL <u>5655 (Dr. M Kashif)</u> Reference of the request letter# NIL Dated: 11-09-2024 Dated: 17-08-2024

1

**Tension Test Report** (Page -8/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)	Aı (iı	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)	<b>3</b> %	Re
1	0.367	10	9.42	0.12	0.108	3200	4800	58789	65310	88184	98000	1.20	15.0	
-	-	ı	-	ı	-	-	-	-	-	-	ı	-	ı	
-	-	ı	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			1		No	te: only o	ne samp	le for ten	sile test	T		1		
							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
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### Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

M/S Sres Private Limited.

Islamabad

(SCO Solar Project, Site ID: BMR002, BMR005, KTL009, KTL033, MRP026, MPR004

& BMR018)

Reference # CED/TFL 5655 (Dr. M Kashif)

Reference of the request letter# NIL

Dated: 11-09-2024 Dated: 17-08-2024

**Tension Test Report** (Page -9/9)

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight			Aı (iı	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)	<b>3</b> %	Re
1	0.367	10	9.41	0.12	0.108	3200	4900	58789	65470	90021	100300	1.20	15.0	
-	-	-	-	ı	-	-	-	•	ı	-	-	-	-	
-	-	-	-	ı	ı	-	ı	ı	ı	ı	-	-	-	
-	-	-	-	1	-	-	•	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					No	te: only o	ne samp	le for ten	sile test					
							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.
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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 Engineer Civil
University of Home Economics Lahore
"Construction of Acadmic Block at University of Home Economics Lahore."

Reference # CED/TFL <u>5656 (Dr. M Kashif)</u> Reference of the request letter # UHE/EC/2123-C

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

Date of Test 12-09-2024 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
S	(lbs/ft)		Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.378	3/8	0.376	0.11	0.111	3300	4700	66200	65500	94200	93300	1.30	16.3	
-	-	ı	-	ı	-	-	-	-	-	-	-	-	1	
-	-	ı	-	ı	-	-	-	-	-	-	-	-	ı	
-	-	ı	-	1	-	-	-	-	-	-	-	-	1	
-	-	ı	-	1	-	-	-	-	-	-	-	-	ı	
-	-	1	-	1	-	-	-	-	-	-	-	-	ı	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est	1		
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Tl	nrough	180° is \$	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 11-09-2024

Dated: 11-09-2024

- 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,

Sub Divisional Officer Highway Sub Division, Khushab (Special Repair of Bridge 6 Span 81.75 ft each (Redecking) on Fateh Pur Sakessar Road km no. 03 in District Khushab.)

Reference # CED/TFL <u>5657 (Dr. M Kashif)</u>

Reference of the request letter # 107/Q

Dated: 11-09-2024

Dated: 01-08-2024

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

Date of Test 12-09-2024 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
<i>S</i> <sub>2</sub>	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	Э %	R
1	0.376	3	0.375	0.11	0.111	3500	4900	70200	69720	98200	97600	1.40	17.5	
2	0.375	3	0.375	0.11	0.110	3500	4900	70200	70030	98200	98100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile and one sample for bend test													
#3	Bend Test #3 Bar Bend Test Through 180° is Satisfactory													
#3	Dai Dell	u rest	imougi	1 100 1	Sausia	icioi y								

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

## MEERING THE PROPERTY OF THE PR

### 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 Vector Steel Mill (Pvt) Ltd. Lahore

Reference # CED/TFL <u>5658 (Dr. M Kashif)</u>

Reference of the request letter # Nil

Dated: 12-09-2024

Dated: 12-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

Description GI Wire Tensile Test

Sr. No.	Weight		neter/ ize	Ai (m	rea m²)	Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)	%	
1	0.088		3.77		11.2		480		421	1.30	16.3	
-	•	-	-	-	•	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
		<u> </u>		N	ote: only	one samp	ole for ten	sile test			I	
						Bend 7	Fast					<u> </u>
						Della	1 581					

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

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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,

Deputy General Manager Projects Habib Rafiq Engineering (Pvt.) Limited Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL <u>5659 (Dr. M Kashif)</u>

Reference of the request letter # HRLE/SKG/2024/160-A (Re-Test)

Dated: 12-09-2024

Dated: 12-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	()		Aı (iı	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	Re
1	0.395	10	9.77	0.12	0.116	4100	5300	75324	77810	97370	100600	0.80	10.0	<u>_</u>
2	0.409	10	9.94	0.12	0.12 0.120		4900	66138	66010	90021	89900	1.20	15.0	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 "
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile test													
							Bend T	'est				-		

Witness by M. Irfan (QC Engr. HRL) & Muhammad Akram (101 Group)

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

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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,

QA/QC Manager Future Developments Holdings (Pvt) Ltd. Development of Capital Smart City (Adventure Arena)

Reference # CED/TFL <u>5661 (Dr. Ali Ahmed)</u>

Reference of the request letter # FDHL/CSC/9/2024/320

Dated: 12-09-2024

Dated: 11-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

Description L-Bolt Tensile Test

Sr. No.	Weight		meter/ ize	A (m	rea m²)	Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)	%	
1	6.386	32	32.18		813.5		64200		774	0.70	8.8	
-	-	-	-	-	ı	ı	-	-	ı	-	-	
-	-	-	-	-	ı	ı	-	-	ı	-	-	
-	-	-	-	-	-	•	-	-	-	-	-	
-	-	-	-	-	ı	ı	-	-	ı	-	-	
-	-	•	-	-	•	ı	-	-	1	•	-	
		T	1	N	ote: only	one samp	ple for ten	sile test		ı	T	
						D an 4.5	Γ4					
						Bend	1 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,

A /Addle Dir (DHA Lab)
Defence Housing Authority
Multan

(Construction of 2-Marla Shops Sector-H, R, U & V.) (M/s Elore Engineering)

Reference # CED/TFL <u>5662 (Dr. Ali Ahmed)</u>
Reference of the request letter # 701/13/Lab/DHA

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

Date of Test 12-09-2024 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)		te Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	Re
1	0.380	3	0.377	0.11	0.112	4400	5300	88200	86810	106200	104600	0.90	11.3	ĸ
2	0.381	3	0.378	0.11	0.112	4300	5200	86200	84620	104200	102400	0.80	10.0	Naveena Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Na
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			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	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-09-2024

Dated: 11-09-2024

- 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,

Unit Head PMO
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL <u>5663 (Dr. Ali Ahmed)</u>

Reference of the request letter # ABL-UML-AMC-QAQC-89

Dated: 12-09-2024

Dated: 12-09-2024

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

Date of Test 12-09-2024 Gauge length 8 inches

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

Sr. No.	Weight				rea n²)	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)	<b>3</b> %	R
1	0.382	3	0.378	0.11	0.112	3900	5100	78200	76500	102200	100100	0.90	11.3	ء وا
2	0.380	3	0.377	0.11			5000	76200	74990	100200	98700	1.00	12.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1	-	ı	-	-	-	-	1	-	-	-	-	-	
-	1	-	ı	-	-	-	-	1	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test		ı	
							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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