



**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 Imperium Hospitality (Pvt) Limited  
Gulberg II, Lahore

Reference # CED/TFL **1444** (Dr. Ali Ahmed)  
Reference of the request letter # IHPL/Steel/0189

Dated: 25-05-2022  
Dated: 23-05-2022

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

Date of Test 01-06-2022  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.11	0.110	3330	4820	66800	66440	96600	96200	1.30	16.3	PCS
2	0.377	3	0.375	0.11	0.111	3330	4890	66800	66300	98000	97400	1.20	15.0	
3	0.377	3	0.376	0.11	0.111	3520	4990	70600	70000	100000	99300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Engr. Rafi Ullah Bajwa (IHPL) & Engr. Ali Husain Khan  
To,

**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](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



**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
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Resident Engineer  
 AZ Engineering Associates  
 Establishment of Mother & Child Block, Teaching Hospital Dera Ghazi Khan

Reference # CED/TFL **1455** (Dr. Ali Ahmed)  
 Reference of the request letter # RE/AZEA/DGK/080

Dated: 30-05-2022  
 Dated: 19-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	3620	4840	72600	71380	97000	95500	1.20	15.0	FF Steel
2	0.386	3/8	0.380	0.11	0.113	3690	4940	74000	71710	99000	96000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Deputy Director (QCD)  
 WASA, LDA, Lahore  
 (Rainwater Management – Drainage Arrangement for Soperoint at Sheranwala Gate, Lahore)  
 (M/s ZEALCON – AEPLE – MYSTIC (Jv))

Reference # CED/TFL **1458** (Dr. Ali Ahmed)  
 Reference of the request letter # QDC/1254-55

Dated: 30-05-2022  
 Dated: 26-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.386	3	0.380	0.11	0.114	3380	5120	67800	65590	102600	99400	1.00	12.5	
2	0.386	3	0.380	0.11	0.113	3310	5070	66400	64330	101600	98600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Planning & Coordination Engineer  
 Redo Engineering & Construction (Pvt) Ltd  
 DIC Pakistan Ltd Kasur

Reference # CED/TFL **1459** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 30-05-2022  
 Dated: 27-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	10	9.50	0.12	0.110	3820	4740	70180	76630	87082	95100	1.10	13.8	
2	0.378	10	9.56	0.12	0.111	4030	4940	74038	79840	90756	97900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Project Director  
 GC University Faisalabad  
 Construction of Dr. Arif Ali Zaidi Block at Main Campus Government College University,  
 Faisalabad

Reference # CED/TFL **1460** (Dr. Ali Ahmed)  
 Reference of the request letter # GCUF/EC/4237

Dated: 30-05-2022  
 Dated: 28-04-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3/8	0.372	0.11	0.109	3790	4760	76000	76830	95400	96500	0.90	11.3	
2	0.368	3/8	0.371	0.11	0.108	3720	4710	74600	75820	94400	96000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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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,  
 Project Director  
 GC University Faisalabad  
 Construction of Advance Studies Block; Day Care Center and Administrative at Main Campus  
 Government College University, Faisalabad

Reference # CED/TFL **1460** (Dr. Ali Ahmed)  
 Reference of the request letter # GCUF/EC/4188

Dated: 30-05-2022  
 Dated: 19-04-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3/8	0.374	0.11	0.110	3770	4760	75600	75450	95400	95300	0.90	11.3	
2	0.372	3/8	0.373	0.11	0.109	3670	4660	73600	73960	93400	94000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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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 AenZay Interiors & Architects  
Lahore

Reference # CED/TFL **1461** (Dr. Ali Ahmed)  
Reference of the request letter # DHA Phase-8/Sector-s/Lahore

Dated: 30-05-2022  
Dated: 30-05-2022

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

Date of Test 01-06-2022  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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)		
1	0.379	3/8	0.376	0.11	0.111	3770	4690	75600	74650	94000	92900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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

Note:

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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,  
 Sub Divisional Officer  
 Buildings Sub Division No. 22  
 Lahore  
 (Construction of Population Welfare House Punjab at Lahore)

Reference # CED/TFL **1462** (Dr. Ali Ahmed)  
 Reference of the request letter # 106/22<sup>nd</sup>

Dated: 30-05-2022  
 Dated: 28-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3/8	0.376	0.11	0.111	4150	5150	83200	82270	103200	102100	1.00	12.5	
2	0.382	3/8	0.378	0.11	0.112	4250	5050	85200	83430	101200	99200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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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 Director (Works)  
 Project Director of The Scheme  
 O/O Mines Labour Welfare Commissioner,  
 Punjab Lahore  
 (Construction of 06 Residences (BPS-01 to BPS-10) at Mines Labour Welfare Complex, Choa Saidu Shah, District Chakwal)  
 Reference # CED/TFL **1464** (Dr. Ali Ahmed) Dated: 31-05-2022  
 Reference of the request letter # MLW/C.E/MT/50/17/7811 Dated: 30-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		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)		
1	0.365	3	0.370	0.11	0.107	2900	4280	58200	59590	85800	88000	1.40	17.5	
2	0.361	3	0.367	0.11	0.106	2770	4130	55600	57600	82800	85900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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



**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 Safiya Homes Private Limited  
Lahore

Reference # CED/TFL **1465** (Dr. Ali Ahmed)  
Reference of the request letter # St # 005

Dated: 31-05-2022  
Dated: 31-05-2022

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

Date of Test 01-06-2022  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3	0.372	0.11	0.109	3430	4640	68800	69470	93000	94000	1.00	12.5	FF Steel
2	0.370	3	0.372	0.11	0.109	3410	4610	68400	69180	92400	93600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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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,  
 Sub Division Officer  
 Buildings Sub Division  
 Khushab  
 (Establishment of GPS at Rehman Colony Jauharabad District Khushab)

Reference # CED/TFL **1466** (Dr. Ali Ahmed)  
 Reference of the request letter # 266

Dated: 31-05-2022  
 Dated: 31-03-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3/8	0.378	0.11	0.112	2500	3110	50100	49140	62400	61200	1.75	21.9	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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- 1- You can See your reports On Internet in the following web site  
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2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Sub Division Officer  
 Buildings Sub Division  
 Khushab  
 (Up Gradation of GBPS, Kuper to Middle Level, District Khushab)

Reference # CED/TFL **1466** (Dr. Ali Ahmed)  
 Reference of the request letter # 929

Dated: 31-05-2022  
 Dated: 30-12-2021

**Tension Test Report** (Page -2/5)

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3/8	0.377	0.11	0.112	2500	3230	50100	49420	64800	63900	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Division Officer  
 Buildings Sub Division  
 Khushab  
 (Up Gradation of GGHS, Khaliqabad to Higher Secondary Level, District Khushab)

Reference # CED/TFL **1466** (Dr. Ali Ahmed)  
 Reference of the request letter # 01/k

Dated: 31-05-2022  
 Dated: 01-01-2022

**Tension Test Report** (Page -3/5)

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3/8	0.374	0.11	0.110	2500	3180	50100	50060	63800	63700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Sub Division Officer  
 Buildings Sub Division  
 Khushab  
 (Establishment of GPS at Pul Jabbi District Khushab)

Reference # CED/TFL **1466** (Dr. Ali Ahmed)  
 Reference of the request letter # 19/K

Dated: 31-05-2022  
 Dated: 10-01-2022

**Tension Test Report** (Page -4/5)

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.388	3/8	0.381	0.11	0.114	2570	3310	51500	49690	66400	64000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Sub Division Officer  
 Buildings Sub Division  
 Khushab  
 (Establishment of GGPS Mitha Tiwana Station District Khushab)

Reference # CED/TFL **1466** (Dr. Ali Ahmed)  
 Reference of the request letter # 99/K

Dated: 31-05-2022  
 Dated: 13-01-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3/8	0.373	0.11	0.109	2340	3110	46900	47280	62400	62900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Muhammad Omer Muslim  
 House 338, Sector A, Phase 08, DHA Lahore

Reference # CED/TFL **1467** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 31-05-2022

Dated: 31-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.361	3	0.368	0.11	0.106	3670	4740	73600	76210	95000	98500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Resident Engineer  
 Osmani & Company (Pvt.) Ltd  
 AIIC Faisalabad

Reference # CED/TFL **1468** (Dr. Ali Ahmed)  
 Reference of the request letter # CRE/AIIC-04/Lab/50

Dated: 31-05-2022  
 Dated: 21-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3	0.375	0.11	0.110	3260	4690	65400	65130	94000	93700	1.10	13.8	SJ Steel
2	0.398	3	0.386	0.11	0.117	3410	4940	68400	64210	99000	93100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Planning and Coordination Engineer  
 Muhammad Ramzan Construction  
 Bopet Film Line (Novatex) Sheikhpura

Reference # CED/TFL **1469** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 31-05-2022  
 Dated: 31-05-2022

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

Date of Test 01-06-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3	0.377	0.11	0.112	3590	5100	72000	70960	102200	100900	1.30	16.3	
2	0.380	3	0.377	0.11	0.112	3620	5020	72600	71410	100600	99100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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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**

Ref: CED/TFL/05/1470

Dated: 31-05-2022

Date of Test: 01-06-2022

To,

**Resident Engineer**  
**NESPAK**

**Execution of Project Work of Bridge Sh; Lot no. 1: (I) Package-II; Khayali Bridge (S-1) (II) Package - III Bridhe at Mathra, Machni, and Kababian (S-4)**

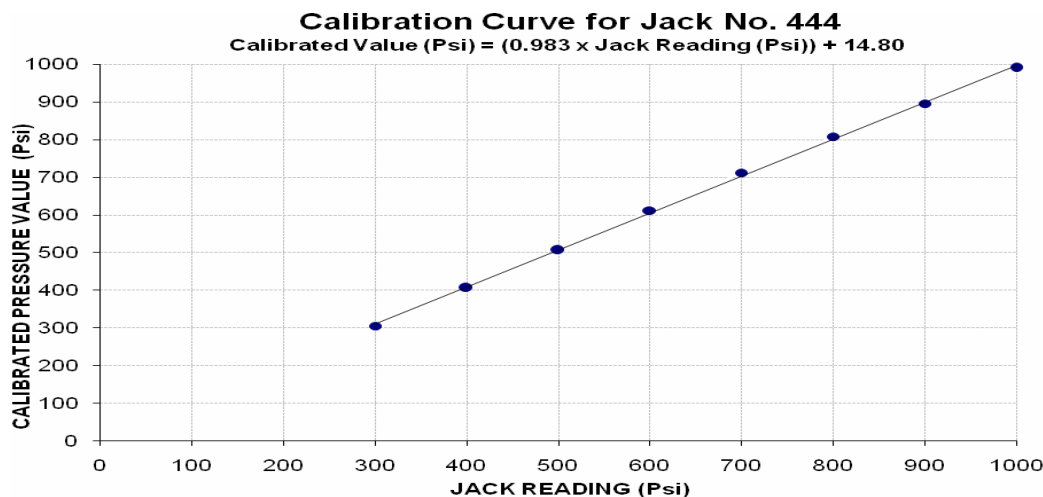
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**  
**(MARK: TFL/05/1470) (Page # 1/3)**

Reference to your Letter No. 4310/01/SSL/22/10, Dated: 30/05/2022 on the subject cited above. One Hydraulic Jack No. 444 with Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 6000 (Psi)**  
**Calibrated Range : Zero - 1000 (Psi)**

Pressure Gauge Reading (Psi)	300	400	500	600	700	800	900	1000
Calibrated Load (kg)	54800	73067	91133	110200	128333	145467	161333	178533
Calibrated Pressure (Psi)	304	405	506	611	712	807	895	990

The Ram Area for Calibration = 397.40 in<sup>2</sup>



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

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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**

Ref: CED/TFL/05/1470

Dated: 31-05-2022

Date of Test: 01-06-2022

To,

**Resident Engineer**  
**NESPAK**

**Execution of Project Work of Bridge Sh; Lot no. 1: (I) Package-II; Khayali Bridge (S-1) (II) Package - III Bridhe at Mathra, Machni, and Kababian (S-4)**

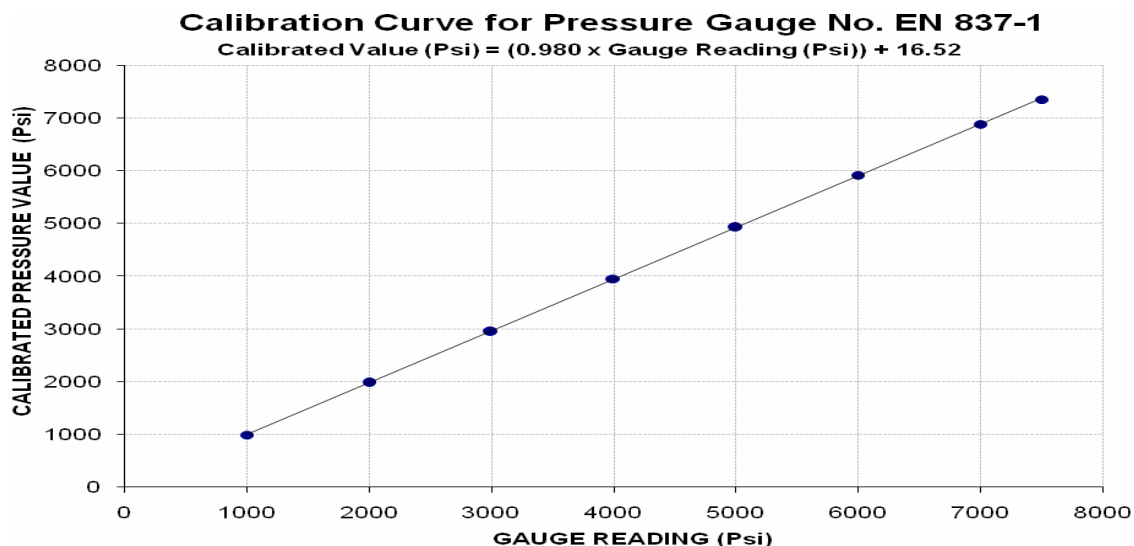
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/1470) (Page # 2/3)

Reference to your Letter No. 4310/01/SSL/22/10, Dated: 30/05/2022 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 15000 (Psi)**  
**Calibrated Range : Zero - 7500 (Psi)**

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000	7000	7500
Calibrated Load (kg)	13800	27600	41000	55000	68600	82400	95800	102400
Calibrated Pressure (Psi)	991	1983	2945	3951	4928	5919	6882	7356

The Ram Area for Calibration = 198 cm<sup>2</sup>



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

Note:

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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**

Ref: CED/TFL/05/1470

Dated: 31-05-2022

Date of Test: 01-06-2022

To,

**Resident Engineer**  
**NESPAK**

**Execution of Project Work of Bridge Sh; Lot no. 1: (I) Package-II; Khayali Bridge (S-1) (II) Package - III Bridhe at Mathra, Machni, and Kababian (S-4)**

**Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/05/1470) (Page # 3/3)**

Reference to your Letter No. 4310/01/SSL/22/10, Dated: 30/05/2022 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

**Total Range : Zero - 50 (mm)**  
**Calibrated Range : Zero - 50 (mm)**

<b>Standard Reading</b>	<b>Dial Gauge Readings</b>			
	<b>Dial Gauge No. I (13I020264)</b>	<b>Dial Gauge No. II (14J230037)</b>	<b>Dial Gauge No. III (15L280071)</b>	<b>Dial Gauge No. IV (S17649)</b>
400	399	397	399	397
800	798	798	800	799
1200	1197	1198	1197	1198
1600	1596	1598	1599	1598
2000	1996	1999	1997	1999
2400	2397	2399	2398	2400
2800	2796	2799	2799	2801
3200	3196	3200	3198	3201
3600	3596	3601	3599	3602
4000	3997	4001	3999	4003
4400	4398	4402	4399	4400
4800	4797	4801	4799	4805
5000	4996	5001	5000	5002

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

Note:

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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,  
 Project Manager  
 Pro-Health  
 Children's Heart Hospital and Research Institute  
 (Pakistan Children's Heart Foundation)(Westcon Construction Private Limited)

Reference # CED/TFL **1471** (Dr. Ali Ahmed)

Dated: 31-05-2022

Reference of the request letter # T211101-L0015-UET/LHR

Dated: 25-05-2022

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

Date of Test

01-06-2022

Gauge length

8 inches

Description

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3	0.374	0.11	0.110	4080	4890	81800	81660	98000	97900	0.90	11.3	
2	0.373	3	0.374	0.11	0.110	4030	4760	80800	80920	95400	95600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

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**STRUCTURAL ENGINEERING DIVISION**  
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**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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