



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 Transtech Engineering Company
NESPAK-CMEC
PTPL
Construction of 1263 MW Punjab Thermal Power Plant, Jhang (F.F Steel)

Reference # CED/TFL **1615** (Dr. Usman Akmal)
Reference of the request letter # TEC/UET/22062501

Dated: 27-06-2022
Dated: 25-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
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 ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	10	9.96	0.12	0.121	4500	5800	82673	82120	106556	105900	0.60	7.5	319
2	0.411	10	9.97	0.12	0.121	4500	5800	82673	82040	106556	105800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by M. Imtiaz (Procurement Engineer)

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

Reference # CED/TFL **1618** (Dr. Usman Akmal)
 Reference of the request letter # UA/SO/2022/021

Dated: 28-06-2022
 Dated: 24-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	0.381	3	0.378	0.11	0.112	4600	5200	92200	90490	104200	102300	0.80	10.0	Afco Steel
2	0.374	3	0.374	0.11	0.110	4700	5500	94200	94340	110200	110400	0.70	8.8	
3	0.363	3	0.369	0.11	0.107	3800	4500	76200	78390	90200	92900	0.60	7.5	
4	0.377	3	0.376	0.11	0.111	3800	4700	76200	75540	94200	93500	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 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,
 Office Manager
 Petrocon (Pvt) Ltd
 Major Repair in Terminal Hard Standing at Shershah Terminal Project

Reference # CED/TFL **1620** (Dr. Usman Akmal)
 Reference of the request letter # 100/UET-P312/TEST

Dated: 28-06-2022
 Dated: 12-05-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.363	3/8	0.369	0.11	0.107	3900	5200	78200	80480	104200	107300	0.70	8.8	Amreli Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
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,
 Project Manager
 Pro-Health
 Children's Heart Hospital and Research Institute
 Pakistan Children's Heart Foundation
 Westcon Construction Private Limited

Reference # CED/TFL **1622** (Dr. Usman Akmal)
 Reference of the request letter # T211101-L0016-UET/LHR

Dated: 28-06-2022
 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	0.369	3	0.371	0.11	0.108	3800	4900	76200	77290	98200	99700	0.90	11.3	
2	0.371	3	0.373	0.11	0.109	3900	4900	78200	78780	98200	99000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Asst Dir (Infra Dev)
 Defence Housing Authority,
 Gujranwala
 (Laying of Electrical Services Sector A (Pkg 1A & 1B))

Reference # CED/TFL **1623** (Dr. Usman Akmal)
 Reference of the request letter # 111/3/AD/Dev/Lab/MK Engr/12

Dated: 28-06-2022
 Dated: 09-06-2022

Tension Test Report (Page -1/2)

Date of Test 30-06-2022
 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 ²)		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	0.383	3	0.379	0.11	0.113	3900	4800	78200	76380	96200	94100	0.80	10.0	AF Steel
2	0.397	3	0.385	0.11	0.117	4200	5500	84200	79390	110200	104000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Asst Dir (Infra Dev)
 Defence Housing Authority,
 Gujranwala
 (Laying of Electrical Services Sector A (Pkg 1A & 1B))

Reference # CED/TFL **1623** (Dr. Usman Akmal)
 Reference of the request letter # 111/3/AD/Dev/Lab/MK Engr/20

Dated: 28-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -2/2)

Date of Test 30-06-2022
 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 ²)		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	0.389	3	0.382	0.11	0.114	3700	5100	74200	71280	102200	98300	1.30	16.3	FF Steel
2	0.388	3	0.381	0.11	0.114	3600	5100	72200	69490	102200	98500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Engineer
 MA Engineering Services
 Enfrasahre Sites

Reference # CED/TFL **1625** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/016

Dated: 29-06-2022
 Dated: 02-06-2022

Tension Test Report (Page -1/3)

Date of Test 30-06-2022
 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 ²)		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	0.376	10	9.52	0.12	0.110	3800	5000	69812	75880	91858	99900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Engineer
 MA Engineering Services
 Enfrasahe Sites

Reference # CED/TFL **1625** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/015

Dated: 29-06-2022
 Dated: 04-04-2022

Tension Test Report (Page -2/3)

Date of Test 30-06-2022
 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 ²)		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	0.353	10	9.23	0.12	0.104	3200	4600	58789	67990	84510	97800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm 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 Engineer
 MA Engineering Services
 Enfrasahe Sites

Reference # CED/TFL **1625** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/014

Dated: 29-06-2022
 Dated: 08-03-2022

Tension Test Report (Page -3/3)

Date of Test 30-06-2022
 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 ²)		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	0.363	10	9.37	0.12	0.107	3100	4600	56952	63950	84510	94900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm 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,
 Chief Executive
 First and Fast Construction Company Pvt Ltd
 Project Ext Manin Building at Master Auto Engineering (SMC) Pvt Ltd at Plot no. 315, 316
 Sahiwal, M3 Industrial Estate Faisalabad

Reference # CED/TFL **1627** (Dr. Usman Akmal)
 Reference of the request letter # FNF/ST/001

Dated: 29-06-2022
 Dated: 29-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	0.361	3/8	0.368	0.11	0.106	4100	5000	82200	85100	100200	103800	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
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 Manager
 Mall-One
 Construction of "Mall One Wazirabad"

Reference # CED/TFL **1628** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 29-06-2022
 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	0.366	3	0.370	0.11	0.108	3600	4700	72200	73720	94200	96300	1.20	15.0	FF Steel
2	0.376	3	0.375	0.11	0.111	3400	4600	68200	67730	92200	91700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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,
 Sub Divisional Officer
 Highway Sub Division
 Shahpur
 (Widening & Improvement of Sahiwal to Shahpur Length 34.43 km in District Sargodha)

Reference # CED/TFL **1629** (Dr. Usman Akmal)
 Reference of the request letter # 128/SP

Dated: 29-06-2022
 Dated: 23-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		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	0.374	3	0.374	0.11	0.110	2600	3600	52100	52130	72200	72200	1.60	20.0	
2	0.374	3	0.374	0.11	0.110	2600	3700	52100	52180	74200	74300	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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/06/1630

Dated: 29-06-2022

Date of Test: 30-06-2022

To,

M/S A.M. Drilling Corporation

Sahiwal

**(Construction of Flyover on Rajjar Railway Crossing at Sarai Alamgir District
Gujrat)**

Subject: - **CALIBRATION OF DIAL GAUGES (MARK: TFL/06/1630)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 29/06/2022 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 100 (mm)

Calibrated Range : Zero - 30 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (GE 146633)	Dial Gauge No. II (GE 146635)	Dial Gauge No. III (GE 146632)
200	193	193	194
400	394	392	394
600	596	592	595
800	793	793	795
1000	993	992	995
1200	1193	1190	1193
1400	1393	1391	1395
1600	1594	1590	1594
1800	1794	1790	1794
200	1994	1989	1994
2200	2194	2187	2194
2400	2393	2386	2393
2600	2593	2585	2591
2800	2793	2784	2792
3000	2993	2984	2991

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

Note:

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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.E
AS Enterprises
Style Textile Manga, Knitting 3, ETP 3
(AA Associates)

Reference # CED/TFL **1631** (Dr. Usman Akmal)
Reference of the request letter # STM/ASE/01

Dated: 29-06-2022
Dated: 29-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
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 ²)		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	0.421	10	10.08	0.12	0.124	4500	5500	82673	80120	101044	98000	1.50	18.8	Mughal Steel
2	0.415	10	10.01	0.12	0.122	4400	5500	80835	79540	101044	99500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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 Manager
 Renaissance International Pvt Ltd
 Construction of LMC Homes at Lahore Motorway City Project, Sheikhpura Road, Lahore

Reference # CED/TFL **1633** (Dr. Ali Ahmed)
 Reference of the request letter # QC/22/028

Dated: 29-06-2022
 Dated: 29-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	0.359	3	0.366	0.11	0.105	2300	3200	46100	48070	64200	66900	1.70	21.3	
2	0.359	3	0.367	0.11	0.106	2300	3200	46100	48050	64200	66900	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Deputy Director (Technical)
 Anti-Corruption Establishment
 Lahore Region, Lahore
 (Connection with E-98/22, Guest House Building, Bawalpur)

Reference # CED/TFL **1634** (Dr. Usman Akmal)

Dated: 29-06-2022

Reference of the request letter # ACE-LR-(E-98/2022)2022/3597

Dated: 28-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		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	0.386	3	0.380	0.11	0.113	4300	5100	86200	83550	102200	99100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Material Engineer
Defence Housing Authority Multan
Construction of New Monuments Islamic Arch, Al-Rehman Al Raheem, Cosmos and Frozen Music (M/s Pillar & Sons)
Reference # CED/TFL **1635** (Dr. Ali Ahmed) Dated: 30-06-2022
Reference of the request letter # 701/92/Planning/DHA Dated: 29-06-2022

Tension Test Report (Page – 1/1)

Date of Test 30-06-2022
Gauge length 2 inches
Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM A 36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	MS Plate	6	24.10x5.60	134.96	3800	6000	276	436	0.70	35.00	
2	MS Pipe	87x87x6	24.30x5.70	138.51	7000	8200	496	581	0.60	30.00	
3	MS Pipe	38x38x4	14.20x4.20	59.64	1600	2600	263	428	0.40	20.00	
4	MS Angle	100x100x6	24.30x6.20	150.66	4500	7900	293	514	0.70	35.00	
5	MS Angle	38x38x6	14.30x5.50	78.65	2600	4400	324	549	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
Only Five Samples for Tensile and Five Samples for Bend Test											
Bend Test											
Strip Taken from MS Plate 6mm Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe 87x87x6mm Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe 38x38x4mm Bend Test Through 180° is Satisfactory											
Strip Taken from MS Angle 100x100x6mm Bend Test Through 180° is Satisfactory											
Strip Taken from MS Angle 38x38x6mm 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,
 Director
 Muhammad Ashfaq Ch & Sons (Pvt) Ltd
 Construction of Primary Unit-01 at Garhi Iktiyar Khan, Rahim Yar Khan

Reference # CED/TFL **1636** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 30-06-2022
 Dated: 30-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	3700	4800	74200	73440	96200	95300	1.10	13.8	Amreli Steel
2	0.376	3/8	0.375	0.11	0.110	3700	4800	74200	73880	96200	95900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum at Plot No. 15 Block L, Gulberg-III, Main Feroze Pur Road,
 Lahore
 Reference # CED/TFL **1638** (Dr. Usman Akmal) Dated: 30-06-2022
 Reference of the request letter # ZD/ZA/STR026 Dated: 28-06-2022

Tension Test Report (Page -1/1)

Date of Test 30-06-2022
 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 ²)		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	4.174	10	1.250	1.27	1.227	35600	51200	61800	63950	88900	92000	1.40	17.5	
2	4.149	10	1.246	1.27	1.219	35200	50400	61100	63630	87500	91100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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