



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 **1804** (Dr. M. Rizwan Riaz)
Reference of the request letter # IHPL/Steel/0210

Dated: 19-08-2022

Dated: 15-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
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	0.365	3	0.370	0.11	0.107	3410	5150	68400	70050	103200	105800	1.00	12.5	PCS
2	0.367	3	0.371	0.11	0.108	3360	5220	67400	68690	104600	106800	1.00	12.5	
3	0.367	3	0.371	0.11	0.108	3310	5150	66400	67560	103200	105200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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														

Witness by Engr. Ali Husain Khan (K.B)
To,

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.
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AE B&R

GE (Army)-II LRC

(CEA/CZ-105/2022 “Const of 8 x Sldrs Flat (G+3), 11 Div at Lhr”)

(CEA/CZ-108/2022 “Const of 8 x Sldrs Flat (G+3), HQ Log 4 Corp at Lhr”)

(CEA/CZ-117/2022 “Const of Hard Standing, POL Store, Loading Ramp”)

Reference # CED/TFL **1818** (Dr. Usman Akmal)

Dated: 23-08-2022

Reference of the request letter # 6003/150/E6

Dated: 15-04-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022

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	0.423	3/8	0.398	0.11	0.124	3400	5000	68200	60220	100200	88600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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To,
 Assistant Project Engineer
 Defence Housing Authority
 Gujranwala
 (Construction of Villas (Block – A & D))

Reference # CED/TFL **1821** (Dr. Usman Akmal)
 Reference of the request letter # 111/3/APE Bldgs/Gen/15

Dated: 23-08-2022
 Dated: 19-04-2022

Tension Test Report (Page -1/2)

Date of Test 25-08-2022
 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	0.420	3	0.396	0.11	0.123	3500	4600	70200	62550	92200	82300	0.60	7.5	AF Steel
2	0.436	3	0.404	0.11	0.128	4000	5000	80200	68790	100200	86000	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.

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To,
 Assistant Project Engineer
 Defence Housing Authority
 Gujranwala
 (Construction of Villas (Block – A & D))

Reference # CED/TFL **1821** (Dr. Usman Akmal)
 Reference of the request letter # 111/3/APE Bldgs/Gen/18

Dated: 23-08-2022
 Dated: 08-06-2022

Tension Test Report (Page -2/2)

Date of Test 25-08-2022
 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	0.107	3000	4400	60200	61530	88200	90300	1.30	16.3	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
 Manager Construction
 Educational Services (Pvt) Ltd
 Beaconhouse School System, Faisalabad Main Campus

Reference # CED/TFL **1822** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 23-08-2022
 Dated: 22-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
 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	0.378	3	0.376	0.11	0.111	3600	4800	72200	71390	96200	95200	1.30	16.3	
2	0.381	3	0.378	0.11	0.112	3600	4800	72200	70820	96200	94500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
Maddasir Ali
Lahore

Reference # CED/TFL **1823** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 23-08-2022
Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
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	0.366	3	0.370	0.11	0.107	2900	4400	58200	59480	88200	90300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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
 TPM Consulting, Lahore
 Structure Design / Supervision for Construction of Flag with Pole, Deck, Walkways and Mural Walls

Reference # CED/TFL **1824** (Dr. M. Rizwan Riaz)
 Reference of the request letter # TPM/PHA/HRD/JP/04

Dated: 23-08-2022
 Dated: 04-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
 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	5.345	11	1.414	1.56	1.571	47600	67400	67300	66780	95300	94600	2.00	25.0	
2	5.330	11	1.412	1.56	1.567	47400	67000	67000	66690	94700	94300	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 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,
 PM Project
 Majeed Associates Ltd
 Construction of ABL Warehouse Pakpattan Road Sahiwal

Reference # CED/TFL **1825** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 23-08-2022
 Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
 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	0.410	10	9.95	0.12	0.121	5000	5900	91858	91360	108393	107800	0.80	10.0	Afco Steel
2	0.408	10	9.92	0.12	0.120	5000	5900	91858	91940	108393	108500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Ritz Developers (Pvt) Ltd.
Lahore

Reference # CED/TFL **1826** (Dr. M. Rizwan Riaz)
Reference of the request letter # Nil

Dated: 23-08-2022
Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
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	0.400	3	0.387	0.11	0.117	4200	5900	84200	78830	118300	110800	0.70	8.8	AF Steel
2	0.391	3	0.383	0.11	0.115	4000	5700	80200	76670	114300	109300	0.60	7.5	
3	0.386	3	0.380	0.11	0.114	4000	5600	80200	77630	112300	108700	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

To,

I/C Testing Laboratories
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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Sub Divisional Officer
 Public Health Engineering, Sub Division
 Okara
 (Extension / Improvement of Water Supply Scheme Southern City, Okara)

Reference # CED/TFL **1828** (Dr. Usman Akmal)
 Reference of the request letter # 101

Dated: 24-08-2022
 Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
 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	0.373	3/8	0.374	0.11	0.110	3300	4900	66200	66290	98200	98500	1.00	12.5	
2	0.373	3/8	0.374	0.11	0.110	3300	4900	66200	66310	98200	98500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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.

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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 Coordinator
 Banu Mukhtar Contracting (Pvt) Ltd
 Canal Residence Johar Town.

Reference # CED/TFL **1829** (Dr. Usman Akmal)
 Reference of the request letter # BML/CRJT/002

Dated: 24-08-2022
 Dated: 24-08-2022

Tension Test Report (Page -1/1)

Date of Test 25-08-2022
 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	0.396	3	0.385	0.11	0.116	3400	5100	68200	64420	102200	96700	1.00	12.5	
2	0.388	3	0.381	0.11	0.114	3300	5000	66200	63840	100200	96800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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.

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