



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-II
 LDA, Lahore
 (Fabrication and Installation of Pedestrian Overhead Bridge Near Kalma Chowk, Across
 Ferozpur Road, Lahore)

Reference # CED/TFL **1026** (Dr. Usman Akmal)
 Reference of the request letter # DD-II/LDA/19

Dated: 07-03-2022
 Dated: 24-02-2022

Tension Test Report (Page – 1/4)

Date of Test 10-03-2022
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	I-Beam	450x175x17x21	27.45x16.30	447.44	12900	22800	283	500	0.70	35.00	
2	I-Beam	150x75x6x8	27.40x5.30	145.22	5800	8700	392	588	0.60	30.00	
3	Checker Plate	6	27.40x5.60	153.44	4400	6800	281	435	0.60	30.00	
4	Angle	100x100x9	27.40x9.10	249.34	8900	13800	350	543	0.70	35.00	
5	Channel Section	300x88x10x12	27.30x11.50	313.95	-----	18800	-----	587	0.65	32.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Five Samples for Tensile Test											
Bend Test											

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
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To,
Deputy Director-II
LDA, Lahore
(Fabrication and Installation of Pedestrian Overhead Bridge Near Kalma Chowk, Across
Ferozpur Road, Lahore)

Reference # CED/TFL **1026** (Dr. Usman Akmal)
Reference of the request letter # DD-II/LDA/19

Dated: 07-03-2022
Dated: 24-02-2022

Weight & Size Test Report (Page – 2/4)

Date of Test 10-03-2022
Description I Beam & Channel Section Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
	(mm)		(g)	(mm)	(kg/m)	mm	mm	mm	mm	
1	I-Beam	450x175x17x21	11875	99.40	119.47	457.00	178.30	20.00	16.0	
2	I-Beam	150x75x6x8	1732	102.50	16.90	150.75	80.10	7.95	5.40	
3	Channel Section	300x88x10x12	4903	101.3	48.40	303.00	104.50	9.50	11.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Deputy Director-II
LDA, Lahore
(Fabrication and Installation of Pedestrian Overhead Bridge Near Kalma Chowk, Across
Ferozpur Road, Lahore)

Reference # CED/TFL **1026** (Dr. Usman Akmal)
Reference of the request letter # DD-II/LDA/19

Dated: 07-03-2022
Dated: 24-02-2022

Weight & Size Test Report (Page – 3/4)

Date of Test 10-03-2022
Description Checker Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)		(g)	(mm)	(mm)	(kg/m ²)	(mm)	
1	Checker Plate	6	466	101.95	102.20	44.72	5.60	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
Deputy Director-II
LDA, Lahore
(Fabrication and Installation of Pedestrian Overhead Bridge Near Kalma Chowk, Across
Ferozpur Road, Lahore)

Reference # CED/TFL **1026** (Dr. Usman Akmal)
Reference of the request letter # DD-II/LDA/19

Dated: 07-03-2022
Dated: 24-02-2022

Weight & Size Test Report (Page – 4/4)

Date of Test 10-03-2022
Description Angle Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(mm)							
1	Angle	100x100x9	1448	102.5	14.13	101.65	102.50	9.00	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for 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

To,
 Sub Divisional Officer
 Building Sub Division Chauburji
 Estate Lahore
 (Construction Drain for Raimn Water at Chauburji Garden Lahore)

Reference # CED/TFL **1027** (Dr. Usman Akmal)
 Reference of the request letter # 190-91/C.E.

Dated: 08-03-2022
 Dated: 12-02-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.417	3	0.395	0.11	0.122	4100	4700	82200	73770	94200	84600	1.20	15.0	
2	0.410	3	0.392	0.11	0.121	-----	6600	-----	-----	132300	120600	0.90	11.3	
3	0.414	3	0.394	0.11	0.122	3800	4900	76200	68830	98200	88800	0.90	11.3	
4	0.410	3	0.392	0.11	0.121	4400	5200	88200	80430	104200	95100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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
 Lalian
 (Construction of Road from Shekin to Mundi Bair in Tehsil Lalian District Chiniot Length = 2 km)
 Reference # CED/TFL **1028** (Dr. Usman Akmal) Dated: 08-03-2022
 Reference of the request letter # 770/L Dated: 07-02-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.381	3	0.378	0.11	0.112	-----	7000	-----	-----	140300	137900	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.

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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
 AZ Engineering Associates
 Construction of Multi Purpose Complex at Quaid-e-Azam Business Park (QABP) on M-2
 Motorway, Sheikhpura

Reference # CED/TFL **1031** (Dr. Usman Akmal)
 Reference of the request letter # RE/AZE/MPC-190

Dated: 08-03-2022
 Dated: 22-02-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.380	3	0.377	0.11	0.112	3800	4700	76200	74890	94200	92700	0.90	11.3	Faizan Steel
2	0.380	3	0.377	0.11	0.112	3800	4700	76200	75080	94200	92900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
 Executive Engineer
 Road Construction Division, Hafizabad
 Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwar via Hafizabad km 6.20 to km 80.35 Length = 74.15km in District Gujranwala & Hafizabad (Sevtion - 1 km no. 23.20 to km 40.20 L = 17 km)

Reference # CED/TFL **1033** (Dr. Usman Akmal)
 Reference of the request letter # 1470/CB

Dated: 08-03-2022
 Dated: 02-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.391	3	0.382	0.11	0.115	3400	5400	68200	65280	108200	103700	0.80	10.0	
2	0.378	3	0.376	0.11	0.111	3500	6200	70200	69480	124300	123100	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Muddasir Ali
 Lahore

Reference # CED/TFL **1034** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 08-03-2022
 Dated: 08-02-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.367	3	0.371	0.11	0.108	3400	4600	68200	69410	92200	94000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 United Lifestyle (Pvt) Ltd
 A High Rise Building “Skyscraper by United” at Johar Town, Lahore

Reference # CED/TFL **1036** (Dr. Usman Akmal)
 Reference of the request letter # ULS/2021-22/007

Dated: 09-03-2022
 Dated: 07-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	3800	5100	76200	74800	102200	100400	1.10	13.8	
2	0.376	3	0.375	0.11	0.111	3900	5100	78200	77720	102200	101700	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														

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UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Engr. Uzair Siddique
 Atiq Associates
 Lahore American School, Upper Mall Road, Lahore

Reference # CED/TFL 1037 (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 09-03-2022
 Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.368	3	0.371	0.11	0.108	4300	5500	86200	87620	110200	112100	0.75	9.4	
2	0.398	3	0.386	0.11	0.117	4900	6000	98200	92410	120300	113200	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,
 Chief Engineer
 Zaitoon
 New Lahore City,
 Lahore

Reference # CED/TFL **1038** (Dr. Usman Akmal)
 Reference of the request letter # NLC/CE/Const/34

Dated: 09-03-2022
 Dated: 08-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.371	3	0.373	0.11	0.109	3400	4700	68200	68660	94200	95000	1.20	15.0	F.F Steel
2	0.370	3	0.372	0.11	0.109	3200	4400	64200	64900	88200	89300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer
 ACES
 Sector - H, DHA Multan
 Civil Infrastructure Development Works DHA Multan

Reference # CED/TFL **1039** (Dr. Usman Akmal)
 Reference of the request letter # ACES-DHAM-NLC-183

Dated: 09-03-2022
 Dated: 07-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.413	10	9.99	0.12	0.121	4200	5400	77161	76200	99207	98000	1.10	13.8	Mughal Steel
2	0.412	10	9.97	0.12	0.121	4100	5400	75324	74690	99207	98400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Pearl One Residencies
Bridgeway Developers
Pilling at Pearl One Residencies by Bridgeway Developers 26 Block-C M.M Alam Road
Gulberg III Lahore

Reference # CED/TFL **1040** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 09-03-2022
Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.380	3	0.377	0.11	0.112	3100	4900	62200	61210	98200	96800	1.30	16.3	Batala Premium
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Resident Engineer
 City Survey & Engineering Consultants
 Green View Executive Apartments Phase-V

Reference # CED/TFL **1042** (Dr. Usman Akmal)
 Reference of the request letter # GVA/RE/04/22

Dated: 09-03-2022
 Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
 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	0.377	3	0.376	0.11	0.111	4100	5000	82200	81540	100200	99500	0.80	10.0	
2	0.370	3	0.372	0.11	0.109	4800	5700	96200	97390	114300	115700	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Ittefaq Building Solution (Pvt) Ltd.
Lahore
(New Apparel Facility, Ferozwattwan)

Reference # CED/TFL **1043** (Dr. Usman Akmal)
Reference of the request letter # IBS/SD/ST-45

Dated: 09-03-2022
Dated: 08-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.368	3	0.371	0.11	0.108	3800	5000	76200	77410	100200	101900	0.80	10.0	Afco Steel
2	0.368	3	0.371	0.11	0.108	3700	4800	74200	75410	96200	97900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Irtiq Designs
Lahore

Reference # CED/TFL **1044** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 09-03-2022
Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.397	3	0.386	0.11	0.117	3100	4500	62200	58480	90200	84900	1.60	20.0	
2	0.407	3	0.390	0.11	0.120	3100	4700	62200	57180	94200	86700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Irtiq Designs
Lahore

Reference # CED/TFL **1044** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 09-03-2022
Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.397	3	0.386	0.11	0.117	3100	4500	62200	58480	90200	84900	1.60	20.0	
2	0.407	3	0.390	0.11	0.120	3100	4700	62200	57180	94200	86700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Irtiq Designs
Lahore

Reference # CED/TFL **1044** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 09-03-2022
Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.397	3	0.386	0.11	0.117	3100	4500	62200	58480	90200	84900	1.60	20.0	
2	0.407	3	0.390	0.11	0.120	3100	4700	62200	57180	94200	86700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Irtiq Designs
Lahore

Reference # CED/TFL **1044** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 09-03-2022
Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 10-03-2022
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	0.397	3	0.386	0.11	0.117	3100	4500	62200	58480	90200	84900	1.60	20.0	
2	0.407	3	0.390	0.11	0.120	3100	4700	62200	57180	94200	86700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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/03/1046
Dated of Test: 10-03-2022

Dated: 10-03-2022

To,
Resident Engineer
AZ Engineering Associates
Construction of Flyover at Shahabpura Chowk Defence Road Sialkot in District Sialkot

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/03/1046) (Page -1/2)

Reference to your Letter No. AZEA/SLK/SF/22/21, Dated: 09/03/2022 on the subject cited above. One Pressure Gauge No. SF-407 as received by us has been calibrated. The results are tabulated as under:

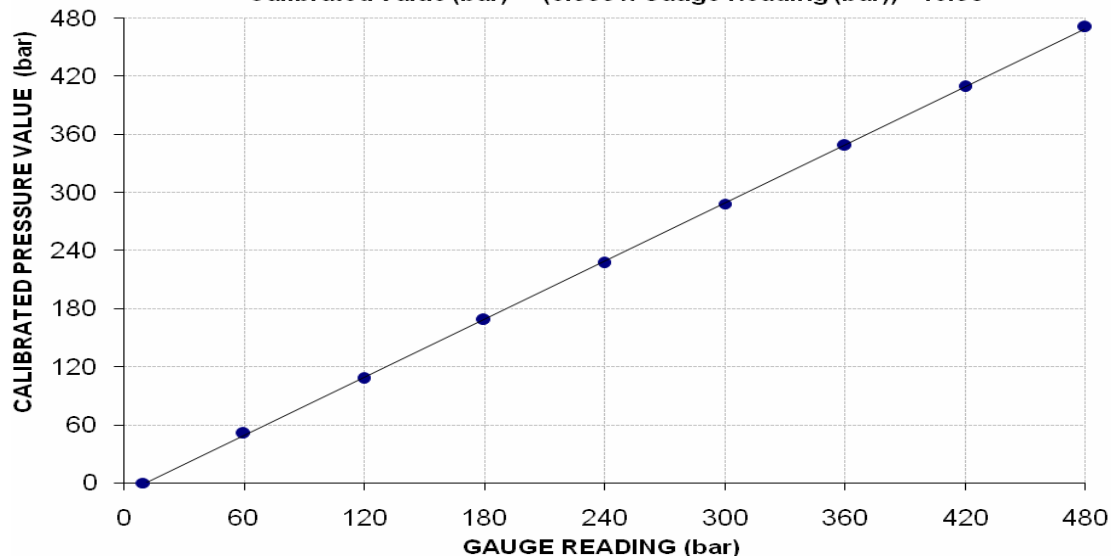
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	10	60	120	180	240	300	360	420	480
Calibrated Load (kg)	0	10300	21700	34000	45800	58200	70300	82600	95000
Calibrated Pressure (bar)	0	51	107	168	227	288	348	409	471

The Ram Are use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. SF-407

Calibrated Value (bar) = (0.999 x Gauge Reading (bar)) - 10.98



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/03/1046
Dated of Test: 10-03-2022

Dated: 10-03-2022

To,
Resident Engineer
AZ Engineering Associates
Construction of Flyover at Shahabpura Chowk Defence Road Sialkot in District Sialkot

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/03/1046) (Page -2/2)

Reference to your Letter No. AZEA/SLK/SF/22/21, Dated: 09/03/2022 on the subject cited above. One Pressure Gauge No. SF-408 as received by us has been calibrated. The results are tabulated as under:

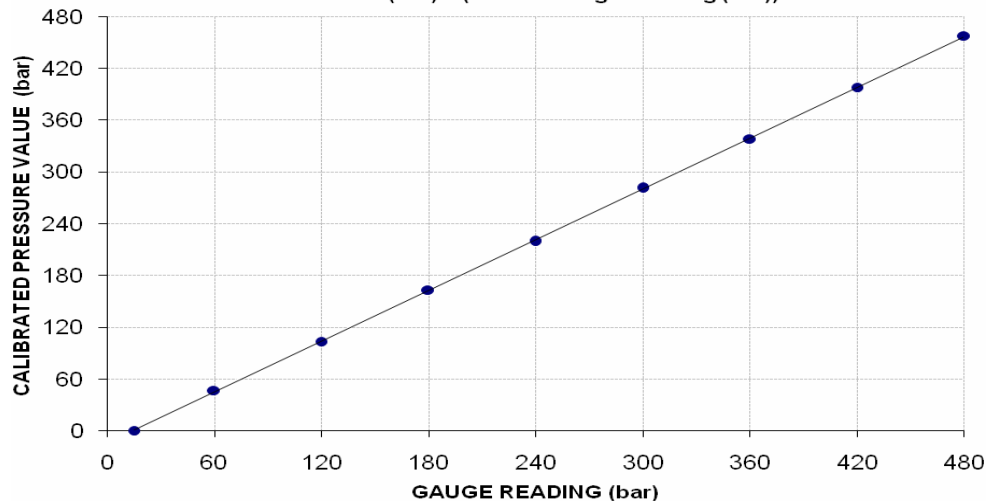
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 480 (bar)

Pressure Gauge Reading (bar)	15	60	120	180	240	300	360	420	480
Calibrated Load (kg)	0	9500	20900	33000	44300	56800	68300	80400	92400
Calibrated Pressure (bar)	0	47	104	163	219	281	338	398	458

The Ram Area use for Calibration = 198 cm^2

Calibration Curve for Pressure Gauge No. SF-408

Calibrated Value (bar) = $(0.980 \times \text{Gauge Reading (bar)}) - 13.76$



I/C Testing Laboratoires
UET Lahore, Pakistan.

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