



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
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **36983** (Dr. Qasim Khan)
 Reference of the request letter # DB-78/DAR/RE/ME/2021/0022

Dated: 01-09-2021
 Dated: 30-08-2021

Tension Test Report (Page – 1/4)

Date of Test 13-09-2021
 Gauge length 2 inches
 Description (G.I) U Track Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	U Track	0.50	38.80x0.50	19.40	840	1000	425	506	0.45	22.50	
2			38.80x0.50	19.40	820	1000	415	506	0.55	27.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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
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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
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **36983** (Dr. Qasim Khan)
Reference of the request letter # DB-78/DAR/RE/ME/2021/0023

Dated: 01-09-2021
Dated: 30-08-2021

Tension Test Report (Page – 2/4)

Date of Test 13-09-2021
Gauge length 2 inches
Description MS Rectangular Section Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	MS Rectangular Section	75x50x1.5	19.00x1.50	28.50	1000	1200	344	413	0.70	35.00	
2			19.30x1.50	28.95	1040	1240	352	420	0.70	35.00	
3	MS Rectangular Section	100x50x1.5	19.40x1.50	29.10	1000	1260	337	425	0.75	37.50	
			19.40x1.50	29.10	1040	1240	351	418	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **36983** (Dr. Qasim Khan)
Reference of the request letter # DB-78/DAR/RE/ME/2021/0024

Dated: 01-09-2021
Dated: 31-08-2021

Tension Test Report (Page – 3/4)

Date of Test 13-09-2021
Gauge length 2 inches
Description MS Sheet Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	MS Sheet	2	14.50x2.00	29.00	1160	1560	392	528	0.45	22.50	
2			14.30x2.00	28.60	1120	1560	384	535	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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To,
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Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **36983** (Dr. Qasim Khan)
Reference of the request letter # DB-78/DAR/RE/ME/2021/0024

Dated: 01-09-2021
Dated: 31-08-2021

Size Test Report (Page – 4/4)
Date of Test 13-09-2021
Description MS Sheet thickness Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	2	2.00	
-	-	-	
-	-	-	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	
Only One Sample for Test			

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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
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **37023** (Dr. Qasim Khan) Dated: 08-09-2021
 Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1366 Dated: 08-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	0.380	10	9.58	0.12	0.112	3400	4700	62464	67070	86347	92800	1.60	20.0	Kamran Steel
2	0.376	10	9.52	0.12	0.110	3200	4600	58789	63860	84510	91800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
Raheel Butt

Reference # CED/TFL **37024** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 08-09-2021
 Dated: 08-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	3400	5100	68200	67030	102200	100600	1.50	18.8	
2	0.376	3	0.375	0.11	0.111	3300	5000	66200	65750	100200	99700	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
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Senior Manager Civil
 HNR Company (Pvt) Ltd
 Haier Pakistan Industrial Park Expansion Project Refrigeration Plant II, Lahore

Reference # CED/TFL **37026** (Dr. Qasim Khan)
 Reference of the request letter # HNR/PRO/REF-II/2021/02

Dated: 09-09-2021
 Dated: 09-09-2021

Tension Test Report (Page -1/)

Date of Test 13-09-2021
 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	0.423	3	0.398	0.11	0.124	3600	5000	72200	63830	100200	88700	1.50	18.8	
2	0.414	3	0.393	0.11	0.122	3300	4800	66200	59820	96200	87000	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,
 Project Director (North-3)
 WASO (PAEC)
 “Construction of Building for Human Performance Improvement Training Facility at CHASCENT” (AL-Moiz Steel, Heat No. 3106)

Reference # CED/TFL **37027** (Dr. Qasim Khan)
 Reference of the request letter # WASO-CPGS-21-188-1598

Dated: 09-09-2021
 Dated: 07-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	3300	4850	66200	65080	97200	95700	1.40	17.5	
2	0.380	3	0.377	0.11	0.112	3300	4900	66200	65080	98200	96700	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
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Department of Civil Engineering
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To,
 Pr. Engineer (Civil), WASO
 PAEC, Chashma
 “Construction of Officer Hostel (Additional Scope of Work 1st Floor) at PNPFC, Wan Bhachran”
 (AL-Moiz Steel, Heat No. 1595)

Reference # CED/TFL **37028** (Dr. Qasim Khan) Dated: 09-09-2021
 Reference of the request letter # PD(CH)/WASO/PNPEC/11/19/1613 Dated: 08-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	0.382	3/8	0.378	0.11	0.112	3500	4800	70200	68660	96200	94200	1.40	17.5	
2	0.381	3/8	0.378	0.11	0.112	3400	4800	68200	66880	96200	94500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
 Civil Engineer
 Shahbaz Garments (Pvt) Limited
 MIDAS Safety
 “Construction of Ring Spinning Building at Shahbaz Garments Pvt Ltd, Faisalabad”

Reference # CED/TFL **37031** (Dr. Qasim Khan)
 Reference of the request letter # UET/03/2021

Dated: 10-09-2021
 Dated: 09-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	0.389	10	9.69	0.12	0.114	3900	5000	71650	75200	91858	96500	1.30	16.3	
2	0.387	10	9.67	0.12	0.114	3800	4900	69812	73570	90021	94900	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.

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

To,
 Prop.
 AB Contractor
 Commercial Building at Ravi Road Lahore

Reference # CED/TFL **37032** (Dr. Qasim Khan)
 Reference of the request letter # ABC/2021/09-02

Dated: 10-09-2021
 Dated: 09-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
 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	0.383	3/8	0.378	0.11	0.112	3200	4800	64200	62700	96200	94100	1.30	16.3	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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

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

Reference # CED/TFL **37033** (Dr. Qasim Khan)
Reference of the request letter # HRLE/SKG/2021/020

Dated: 13-09-2021
Dated: 09-09-2021

Tension Test Report (Page -1/1)

Date of Test 13-09-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.419	10	10.06	0.12	0.123	3200	5500	58789	57210	101044	98400	1.40	17.5	AFCO
2	0.387	10	9.66	0.12	0.114	3500	4800	64301	67870	88184	93100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

Witness by Bilal Afzal (QC Engr. HRL) & Imran (Lab. Engr. Afco)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **37034** (Dr. Qasim Khan)
Reference of the request letter # IHPL/Steel/0122

Dated: 13-09-2021

Dated: 09-09-2021

Tension Test Report (Page -1/)

Date of Test 13-09-2021
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	4.168	10	1.249	1.27	1.225	37600	57800	65300	67650	100400	104000	1.30	16.3	PCS
2	4.167	10	1.249	1.27	1.225	38000	57800	66000	68380	100400	104000	1.50	18.8	
3	4.175	10	1.250	1.27	1.227	37400	57600	65000	67180	100000	103500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Ali Hasnain Khan (Engineer)(K.B)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Imran Construction Company
Allama Iqbal Town, Lahore
(Warehouse Shahid Iqbal)

Reference # CED/TFL **37038** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 13-09-2021
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Tension Test Report (Page -1/)

Date of Test 13-09-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.370	3	0.372	0.11	0.109	2770	4130	55600	56210	82800	83900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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