



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

To,
 Team Leader
 HA Consulting
 Construction of I.T Park at PAF Air Base, Lahore

Reference # CED/TFL **1834** (Dr. Ali Ahmed)
 Reference of the request letter # 2022/HAC/A-043/0110

Dated: 25-08-2022
 Dated: 20-08-2022

Tension Test Report (Page – 1/2)

Date of Test 31-08-2022
 Gauge length 2 inches
 Description Steel Plate 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)	(mm)									
1	Web Plate	4	22.60x3.80	85.88	3100	4500	354	514	0.45	22.50	
2	Web Plate	5	29.80x5.00	149.00	6000	7400	395	487	0.70	35.00	
3	Web Plate	6	22.50x6.80	153.00	6200	7200	398	462	0.45	22.50	
4	Flange Plate	8	21.90x8.30	181.77	7000	8700	378	470	0.50	25.00	
5	Flange Plate	10	25.20x11.00	277.20	10700	13000	379	460	0.60	30.00	
6	Flange Plate	12	29.80x12.00	357.60	14500	18000	398	494	0.70	35.00	
7	Flange Plate	12	29.20x12.60	367.92	14200	17500	379	467	0.50	25.00	
8	Hot Rolled	24	24.10x24.50	590.45	23300	29300	387	487	0.60	30.00	
9	Hot Rolled	30	24.40x29.80	727.12	27800	35300	375	476	0.80	40.00	
Only Nine Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Team Leader
HA Consulting
Construction of I.T Park at PAF Air Base, Lahore

Reference # CED/TFL **1834** (Dr. Ali Ahmed)
Reference of the request letter # 2022/HAC/A-043/0110

Dated: 25-08-2022
Dated: 20-08-2022

Slippage Test Report (Page -2/2)

Date of Test 31-08-2018
Gauge length --
Description Anchor Bolt Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	36	25000	Thread Failure	-
2	30	24200	Thread Failure	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Note: only two samples for test				

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
Team Leader – JIPIC
Project Implementation Consultants (PICs)
Jalalpur Irrigation Project
Construction of Jalalpur Irrigation Canal and its System

Reference # CED/TFL **1837** (Dr. Ali Ahmed)
Reference of the request letter # JIPIC/2.8/4018

Dated: 25-08-2022
Dated: 23-08-2022

Tension Test Report (Page – 1/1)

Date of Test 31-08-2022
Gauge length 2 inches
Description Steel Plate Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip (mm)	X Section Area (mm ²)	Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (in)	% Elongation	Remarks
	(mm)	(mm)									
1	A-01	10	26.65x10.00	266.50	7000	9600	258	353	1.00	50.00	
2	A-02	12	26.60x12.00	319.20	13500	17500	415	538	0.90	45.00	
3	A-03	20	26.60x21.10	561.26	17700	27200	309	475	0.90	45.00	
4	B-01	12	27.10x11.90	322.49	8900	19600	271	596	1.40	70.00	
5	B-02	10	26.50x10.30	272.95	8000	17600	288	633	1.30	65.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Five Samples for Tensile Test											
Bend Test											

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
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To,
 DGM
 Flying Cement Company Limited
 Construction of Flying Cement Company Plant Line-II, 7700 TPD Khushab

Reference # CED/TFL **1852** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 29-08-2022
 Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	4.143	32	31.63	1.25	1.218	36800	51400	64903	66610	90653	93100	1.60	20.0	
2	4.154	32	31.67	1.25	1.221	36600	51400	64551	66070	90653	92800	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm 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
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Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 Usman Ibrahim Construction
 Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore

Reference # CED/TFL **1854** (Dr. Ali Ahmed)
 Reference of the request letter # QC/HQ/CIVIL/17

Dated: 29-08-2022
 Dated: 29-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	4.143	32	31.63	1.25	1.218	36800	51400	64903	66610	90653	93100	1.60	20.0	
2	4.154	32	31.67	1.25	1.221	36600	51400	64551	66070	90653	92800	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm 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,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum at Plot No. 15 Block L, Gulberg-III, Main Feroze Pur Road,
 Lahore
 Reference # CED/TFL **1856** (Dr. Ali Ahmed) Dated: 30-08-2022
 Reference of the request letter # ZD/ZA/STR029 Dated: 29-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	4.311	10	1.270	1.27	1.267	36200	54400	62900	62970	94500	94700	1.60	20.0	
2	4.306	10	1.269	1.27	1.266	40400	56800	70200	70360	98600	99000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 SQN LDR
 GE (AIR) Mushaf
 Construction of MRR SQN Headquarters Building alongwith Rehabilitation of Technical Area at
 Kirana Complex at PAF Base Mushaf
 Reference # CED/TFL 1857 (Dr. Ali Ahmed) Dated: 30-08-2022
 Reference of the request letter # 6100-31/2022/56/E-6 Dated: 29-07-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	0.362	3/8	0.368	0.11	0.107	2600	3500	52100	53800	70200	72500	1.60	20.0	
2	0.357	3/8	0.366	0.11	0.105	2300	3100	46100	48260	62200	65100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S High Rise Development Pvt

Reference # CED/TFL **1858** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 30-08-2022
Dated: 30-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
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	0.375	3/8	0.375	0.11	0.110	3600	5100	72200	72010	102200	102100	0.80	10.0	
2	0.372	3/8	0.373	0.11	0.109	3700	5000	74200	74580	100200	100800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Procurement Manager
 Premier Developers & Builders
 Lyallpur Galleria-II near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **1859** (Dr. Ali Ahmed)
 Reference of the request letter # LG-II/023

Dated: 30-08-2022
 Dated: 29-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	0.374	3	0.374	0.11	0.110	3400	4900	68200	68090	98200	98200	1.30	16.3	FF 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,
 Sub Divisional Officer
 Highway Sub Division
 Lalian
 (Construction of Road from Agray wala Link Road to Sabomurad wala in Tehsil Lalian District
 Chiniot. Length = 1.00 km)
 Reference # CED/TFL **1863** (Dr. Ali Ahmed) Dated: 30-08-2022
 Reference of the request letter # 580/L Dated: 04-07-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	0.381	3	0.378	0.11	0.112	3800	4700	76200	74760	94200	92500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
Pakistan. Ph: 92-42-99029202

To,
 Muddasir Ali
 Lahore

Reference # CED/TFL 1867 (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 31-08-2022
 Dated: 31-08-2022

Tension Test Report (Page -1/1)

Date of Test 31-08-2022
 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	4.426	10	1.287	1.27	1.301	42200	56000	73300	71500	97200	94900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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