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
Premier Developers & Builders
Lyallpur Galleria-II Near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **2877** (Dr. Rizwan Azam) Dated: 03-03-2023
Reference of the request letter # LG-II/040 Dated: 01-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	0.383	3	0.378	0.11	0.112	3400	4800	68200	66640	96200	94100	1.30	16.3	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Premier Developers & Builders
Lyallpur Galleria-II Near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **2878** (Dr. Rizwan Azam) Dated: 03-03-2023
Reference of the request letter # LG-II/039 Dated: 27-02-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	0.382	3	0.378	0.11	0.112	3320	4920	66600	65170	98600	96600	1.30	16.3	NomeeSteel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Baran Dam Consultants, Bannu
Construction Supervision of Raising of Baran Dam Bannu
(Ibrahim Nizami Steel Wire Industries Pvt Ltd.)

Reference # CED/TFL **2879** (Dr. Rizwan Azam) Dated: 03-03-2023
Reference of the request letter # BDC/1385/2023 Dated: 24-02-2023

Tension Test Report (Page – 1/1)

Date of Test 06-03-2023
Gauge length -------
Description Barbed Wire Tensile Test

Sr. No.	Measure Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	**3.10**	**480**	**4.71**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
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
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
ACES Pvt Ltd
Development of Sector – T & P - DHA Mulatn

Reference # CED/TFL **2881** (Dr. Rizwan Azam) Dated: 03-03-2023
Reference of the request letter # RE/SEC–T&P/Material/83 Dated: 04-01-2023

Tension Test Report (Page -3/4)

Date of Test 06-03-2023
Description Deformed Steel Bar Tensile and Bend Test as per ASTM A-496

Sr. No.	Weight	Diameter/ Size (mm)		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)		Ultimate Stress (MPa)		Remarks
	(kg/m)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	
1	0.226	6	6.05	32.26	28.79	1360	1720	414	463	523	586	Ali Steel
2	0.221	6	5.98	32.26	28.11	1560	1880	474	544	572	656	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
6mm Dia Bar Bend Test Through 180º 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
Establishment of Mother & Child Block, Teaching Hospital, Dera Ghazi Khan

Reference # CED/TFL **2882** (Dr. Rizwan Azam) Dated: 03-03-2023
Reference of the request letter # RE/AZEA/DGK/198 Dated: 27-02-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	0.375	3	0.375	0.11	0.110	3300	4700	66200	65970	94200	94000	1.40	17.5	Sheikhoo Steel
2	0.379	3	0.376	0.11	0.111	3200	4700	64200	63390	94200	93100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,
Orbit Housing
The Spring Apartment Homes

Reference # CED/TFL **2885** (Dr. Rizwan Azam) Dated: 06-03-2023
Reference of the request letter# NIL Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	0.108	3400	4800	68200	69610	96200	98300	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	3500	4700	70200	71240	94200	95700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,

Managing Director
E & DC Associates
Construction of 5 Marla House # 28/24, DHA Rahbar, Phase II, Lahore

Reference # CED/TFL **2887** (Dr. Rizwan Azam) Dated: 06-03-2023
Reference of the request letter # Nil Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	0.361	3	0.367	0.11	0.106	4000	4900	80200	83130	98200	101900	0.80	10.0	Afco Steel
2	0.364	3	0.369	0.11	0.107	3900	4700	78200	80350	94200	96900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Al-Imam PMC (Pvt) Ltd.
Construction of New Telehouse Brick Room atZong MSC Faisalabad)

Reference # CED/TFL **2888** (Dr. Rizwan Azam) Dated: 06-03-2023
Reference of the request letter # ALM/CMPAK/FSD/1-23 Dated: 03-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	3400	5100	68200	66910	102200	100400	1.30	16.3	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

Witness by Ramzan (Site Engineer Zong)

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
Overseas Construction Co. (Pvt) Ltd
Gulberg City Centre, Lahore

Reference # CED/TFL **2892** (Dr. Rizwan Azam) Dated: 06-03-2023
Reference of the request letter # OCC/Steel/37 Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-03-2023
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	4.310	10	1.270	1.27	1.267	41200	54400	71500	71680	94500	94700	1.30	16.3	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180º 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 Malik Steel Sales Depot
Badami Bagh, Lahore

Reference # CED/TFL **2893** (Dr. Usman Akmal) Dated: 06-03-2023
Reference of the request letter # Nil Dated: 06-03-2023

Tension Test Report (Page -1/3)

Date of Test 06-03-2023
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	0.358	3	0.366	0.11	0.105	2800	4600	56200	58650	92200	96400	1.20	15.0	Malik G-60 Heat No. 16
2	0.385	3	0.380	0.11	0.113	3100	4900	62200	60370	98200	95500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

To,

M/S Malik Steel Sales Depot
Badami Bagh, Lahore

Reference # CED/TFL **2893** (Dr. Usman Akmal) Dated: 06-03-2023
Reference of the request letter # Nil Dated: 06-03-2023

Tension Test Report (Page -2/3)

Date of Test 06-03-2023
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	0.354	3	0.364	0.11	0.104	2700	4300	54100	57120	86200	91000	1.30	16.3	Malik G-60 Heat No. 17
2	0.356	3	0.365	0.11	0.105	2800	4400	56200	59010	88200	92800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

To,

M/S Malik Steel Sales Depot
Badami Bagh, Lahore

Reference # CED/TFL **2893** (Dr. Usman Akmal) Dated: 06-03-2023
Reference of the request letter # Nil Dated: 06-03-2023

Tension Test Report (Page -3/3)

Date of Test 06-03-2023
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	0.376	3	0.375	0.11	0.111	3100	4800	62200	61830	96200	95800	1.30	16.3	Malik G-60 Heat No. 18
2	0.363	3	0.368	0.11	0.107	3000	4600	60200	62030	92200	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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