



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
AR Enterprise
Alfatah Emal Project

Reference # CED/TFL **2912** (Dr. M Rizwan Riaz)
Reference of the request letter # AEM/ST/UET/14/06

Dated: 09-03-2023
Dated: 08-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
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	0.372	3	0.373	0.11	0.109	3570	5250	71600	72040	105200	106000	1.20	15.0	Batala Steel	
2	0.371	3	0.373	0.11	0.109	3540	5250	71000	71460	105200	106000	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															

Witness by Javaid Iqbal (QS. Alfatah) & Saqib Hussain (Quality Head Premium Batala Steel)

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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
M/S Baig Construction Co.
Lahore
(M/s Chohan Hospital, Jail Road Lahore)

Reference # CED/TFL **2897** (Dr. Usman Akmal)
Reference of the request letter # 06-32023BCC

Dated: 07-03-2023
Dated: 07-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
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	0.108	3670	5220	73600	75190	104600	107000	1.10	13.8	
2	0.369	3	0.371	0.11	0.108	3690	5220	74000	75090	104600	106300	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 Laboratories
UET Lahore, Pakistan.

Note:

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To,

Campus Engineer
 GC University, Lahore
 "Construction of New Girls Hostel at Main Campus GCU Lahore".

Reference # CED/TFL **2901** (Dr. Usman Akmal)
 Reference of the request letter # GCU/Engr/877/W.O

Dated: 07-03-2023
 Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 08-03-2023
 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	0.371	3/8	0.373	0.11	0.109	3310	4740	66400	66880	95000	95800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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To,
 Manager Projects
 Ittefaq Construction Services
 Construction of Commercial Plaza (11 Westwood) Lahore

Reference # CED/TFL **2902** (Dr. Usman Akmal)
 Reference of the request letter # ICS/H.O/B.T.P/002

Dated: 07-03-2023
 Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
 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	3380	4560	67800	69010	91400	93100	1.50	18.8	
2	0.367	3	0.371	0.11	0.108	3360	4540	67400	68610	91000	92800	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.

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,
 Head PO & PPCC
 Izhar Concrete (Pvt) Ltd
 Lahore

Reference # CED/TFL **2903** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 08-03-2023
 Dated: 06-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.052	1/8	0.139	-----	0.015	-----	960	-----	-----	-----	138900	0.30	3.8	
2	0.054	1/8	0.142	-----	0.016	-----	1090	-----	-----	-----	151300	0.20	2.5	
3	0.053	1/8	0.141	-----	0.016	-----	970	-----	-----	-----	137600	0.40	5.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
1/8" 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
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Asst Dir Lab
 Defence Housing Authority, Bahawalpur
 Resident Unit, (Mayco Engineers Construction)

Reference # CED/TFL **2904** (Dr. Usman Akmal)
 Reference of the request letter # 530/QC/MTL

Dated: 08-03-2023
 Dated: 08-03-2023

Tension Test Report (Page -1/2)

Date of Test 09-03-2023
 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	3840	4710	77000	76080	94400	93400	0.90	11.3	Union 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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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

Asst Dir Lab
 Defence Housing Authority, Bahawalpur
 2 Marla Commercial Shop / Projects, (M/s The Real Estate)

Reference # CED/TFL **2904** (Dr. Usman Akmal)
 Reference of the request letter # 530/QC/MTL

Dated: 08-03-2023
 Dated: 08-03-2023

Tension Test Report (Page -2/2)

Date of Test 09-03-2023
 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	3620	4940	72600	73090	99000	99800	1.20	15.0	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Project Manager
Aujla & Associates
Masjid Usman G-Block Overhead No. 4 Royal Palm City Housing Scheme Gujranwala

Reference # CED/TFL **2906** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 08-03-2023
Dated: 08-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
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	0.394	3	0.384	0.11	0.116	3590	5780	72000	68300	115900	110000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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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To,
 Project Manager
 State Grid
 Design, Supply, Installation, Testing & Commissioning of 500kV/D/C Transmission Line
 Nokhar S/S – Lahore North S/S- Lahore HVDC Switching / Converter Station
 (Kamran Steel) (Shekham Stop Warehouse)
 Reference # CED/TFL **2907** (Dr. M Rizwan Riaz) Dated: 08-03-2023
 Reference of the request letter # CET/ADB-301A/SEC-II/UET-23-976 Dated: 08-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
 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	4.315	10	1.271	1.27	1.268	42600	58000	74000	74030	100700	100800	1.60	20.0	
2	4.369	10	1.279	1.27	1.284	43000	57400	74700	73810	99700	98600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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 Sohaib Ali (Sub Engr. NESPAK) & Engr. Usman Ghafoor (P.E, CET)

I/C Testing Laboratories
 UET Lahore, Pakistan.

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

To,

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

Reference # CED/TFL **2909** (Dr. Usman Akmal)
Reference of the request letter # LG-II/042

Dated: 08-03-2023
Dated: 07-03-2023

Tension Test Report (Page -1/1)

Date of Test 09-03-2023
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	0.379	3	0.376	0.11	0.111	3490	4910	70000	69110	98400	97300	1.40	17.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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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