



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/05/5083

Dated: 14-05-2024

Date of Test: 20-05-2024

To,

Jr. Manager Admin
PAEC Foundation Housing Project
Lahore

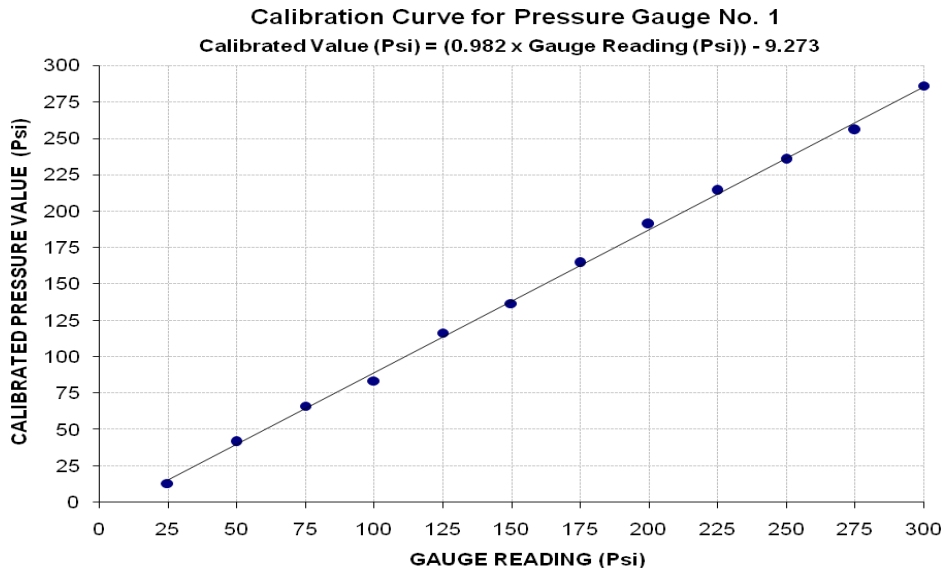
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/5083)** (Page # 1/2)

Reference to your Letter No. PFHP/COG/UET/Admin/2024, Dated: 14/05/2024 on the subject cited above. One Pressure Gauge No. 1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 350 (Psi)
Calibrated Range : Zero - 300 (Psi)

Pressure Gauge Reading (Psi)	25	50	75	100	125	150	175	200	225	250	275	300
Calibrated Load (kg)	180	580	920	1160	1620	1900	2290	2660	2980	3280	3560	3980
Calibrated Pressure (Psi)	13	42	66	83	116	136	164	191	214	236	256	286

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
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

Ref: CED/TFL/05/5083

Dated: 14-05-2024

Date of Test: 20-05-2024

To,

Jr. Manager Admin
PAEC Foundation Housing Project
Lahore

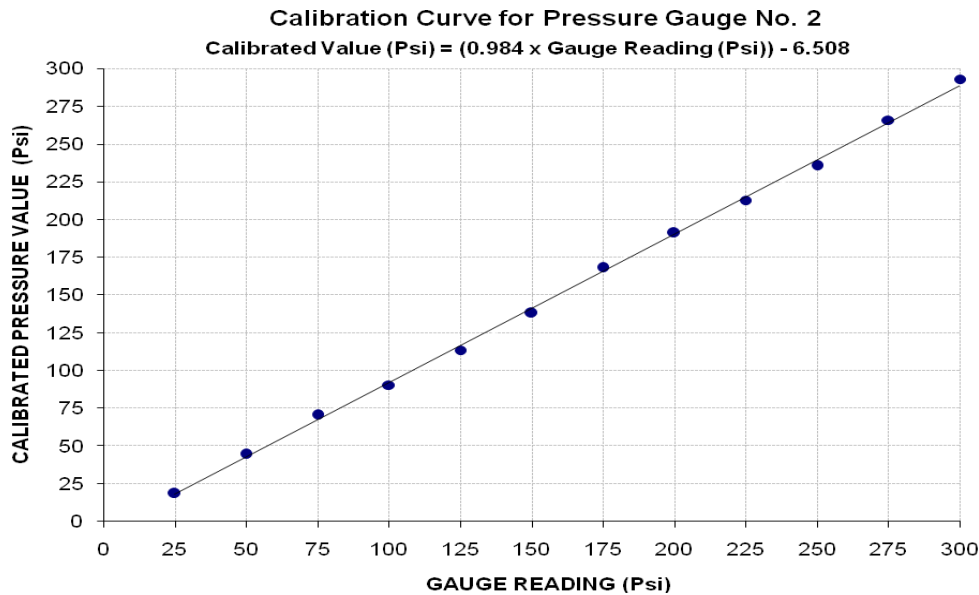
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/5083) (Page # 2/2)

Reference to your Letter No. PFHP/COG/UET/Admin/2024, Dated: 14/05/2024 on the subject cited above. One Pressure Gauge No. 2 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 350 (Psi)
Calibrated Range : Zero - 300 (Psi)

Pressure Gauge Reading (Psi)	25	50	75	100	125	150	175	200	225	250	275	300
Calibrated Load (kg)	260	620	980	1260	1580	1920	2340	2660	2960	3280	3700	4080
Calibrated Pressure (Psi)	19	45	70	91	113	138	168	191	213	236	266	293

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
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
ACE - ARTS (Consultants)
Establishment of University of Applied Engineering and Emerging Technologies
(UAEET) Sambrial, Sialkot

Reference # CED/TFL **5086** (Dr. M Kashif)

Dated: 17-05-2023

Reference of the request letter # ER/UAEET/ACE/ME/2024/18

Dated: 15-05-2023

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.376	3	0.375	0.11	0.111	3410	4640	68400	67940	93000	92500	1.10	13.8	Pak Steel Heat No. 790
2	0.379	3	0.376	0.11	0.111	3310	4560	66400	65540	91400	90300	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.

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,
Assistant Manager QHSE
Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **5091** (Dr. M Rizwan Riaz)
Reference of the request letter # BMSQA.QC-066/24

Dated: 15-05-2024
Dated: 15-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
Gauge length 8 inches
Description Anchor Bolt Tensile Test as per ASTM- F1554

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual							
1	5.476	30	29.80	-----	697.6	24400	38600	343	543	1.80	22.5	TT01
2	5.578	30	30.08	-----	710.6	26000	40200	359	555	1.90	23.8	TT02
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile test												
Bend Test												

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,

CEO
SAC Engineering Services
Construction and Renovation of UBL Branch at Cavalry Ground, Lahore.

Reference # CED/TFL **5096** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 16-05-2024
Dated: 15-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
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	3770	4740	75600	75950	95000	95500	1.00	12.5	
2	0.373	3	0.374	0.11	0.110	3770	4740	75600	75750	95000	95300	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.

Note:

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

To,

Dy Dir Infra
Defence Housing Authority, Gujranwala
“Const of InnoVista Technology Zone.”

Reference # CED/TFL **5101** (Dr. M Rizwan Riaz)

Dated: 17-05-2024

Reference of the request letter # 111/3/DD/Dev/Soft Tech Park/47

Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.373	3	0.374	0.11	0.110	3720	5070	74600	74750	101600	101900	1.20	15.0	FF Steel
2	0.371	3	0.372	0.11	0.109	3770	4840	75600	76300	97000	98000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Project Manager
 United Lifestyle (Private) Limitd.
 High-Rise Building “Skyscrapers” at Johar Town Lahore

Reference # CED/TFL **5102** (Dr. M Rizwamn Riaz)
 Reference of the request letter # ULS/2021-22-23-24/04

Dated: 17-05-2024
 Dated: 17-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
 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	3310	5070	66400	67370	101600	103200	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	3260	5120	65400	66390	102600	104300	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.

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,

Assistant Engineer Civil
 National Skills University Islamabad
 Construction of Boundary Wall and Main Gate at National Skills University Islamabad
 Muridke Campus.

Reference # CED/TFL **5103** (Dr. M Rizwan Riaz)

Dated: 17-05-2024

Reference of the request letter # NSU/Muridke/Phase-I/2023/11

Dated: 02-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.359	3	0.367	0.11	0.106	2720	4150	54500	56820	83200	86700	1.50	18.8	
2	0.360	3	0.367	0.11	0.106	2750	4180	55100	57240	83800	87000	1.40	17.5	
3	0.360	3	0.367	0.11	0.106	2800	4150	56200	58290	83200	86400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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 Power Construction Corporation of China Ltd.
Tarbele 5th Extension Hydropower Project.

Reference # CED/TFL **5104** (Dr. M Rizwan Riaz)
Reference of the request letter # PCCCL/T5LAB/2024-146

Dated: 17-05-2024

Dated: 16-05-2024

Tensile / Slippage Test Report (Page -1/1)

Date of Test 20-05-2024

Description Splice (Coupler Rod) Slippage Test

Sr. No.	Dia	Label / Mark	Failure Load	Mode of Failure	Remarks
	(mm)	-----	(kg)	---	
1	32	- 1+	49400	Thread failure	Slip on – side
2	32	- 2 +	51400	Thread failure	Slip on – side
3	32	- 3 +	50800	Thread failure	Slip on – side
4	32	- 4 +	48200	Thread failure	Slip on + side
-	-	-	-	-	-
-	-	-	-	-	-
Note: only four samples 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,

Resident Engineer (QA/QC Department)
Bahria Town Private Limited
Canal Bridge Sector "G" Bahria Town Multan Road Site Lahore.

Reference # CED/TFL **5106** (Dr. M Rizwan Riaz)
Reference of the request letter # QA/QC-Steel-3683

Dated: 17-05-2024
Dated: 17-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
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	0.369	3	0.371	0.11	0.108	3870	5200	77600	78700	104200	105800	1.20	15.0	
2	0.369	3	0.372	0.11	0.108	3740	5120	75000	76040	102600	104100	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,
M/S Fine Construction Company
Pindi Bhattian

Reference # CED/TFL **5107** (Dr. M Rizwan Riaz)
Reference of the request letter # Attock/Bahria Town Site.

Dated: 17-05-2024
Dated: 17-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
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	4.155	10	1.247	1.27	1.221	38400	54400	66700	69290	94500	98200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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
NESPAK
Construction of Pakistan Kidney & Liver Institute & Research Center, Lahore Hospital
PKLI, Package C-1, Phase-1.

Reference # CED/TFL **5109** (Dr. M Rizwan Riaz)

Dated: 17-05-2024

Reference of the request letter # 3836/13/9A/AA/C-1-MTR-262

Dated: 16-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.365	3	0.369	0.11	0.107	3590	4940	72000	73850	99000	101700	1.20	15.0	Kamran Steel
2	0.374	3	0.374	0.11	0.110	3620	4840	72600	72620	97000	97100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
Resident Engineer
Unicon Consulting Services (Pvt) Ltd.
Arts, Culture & Humanities Building at University of Agriculture, Faisalabad.

Reference # CED/TFL **5111** (Dr. M Rizwam Riaz)
Reference of the request letter # Unicon/UAF/T.B

Dated: 20-05-2024
Dated: 03-04-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
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	0.377	3	0.376	0.11	0.111	3690	4940	74000	73430	99000	98400	1.30	16.3	Aziz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Resident Engineer
Asian Consulting Engineers
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision of Cluster South-I

Reference # CED/TFL **5112** (Dr. M Rizwamn Riaz)

Dated: 20-05-2024

Reference of the request letter # AsCE/PRSWSSP/CS1/P-05/2010 Dated: 06-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.386	3	0.380	0.11	0.114	3890	4890	78000	75470	98000	94900	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 Laboratoires
UET Lahore, Pakistan.

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To,

Executive Engineer ECD-M
 University of Agriculture,
 Faisalabad.
 (Construction of Building for Office's Seed Production Unit, Seed Storage Hall, Seed Drying Plate Farm, Parking Shed and Boundary Wall etc, at PARS UAF.)

Reference # CED/TFL **5113** (Dr. M Rizwamn Riaz)
 Reference of the request letter # CE 8738

Dated: 20-05-2024
 Dated: 15-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024
 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	0.399	3	0.386	0.11	0.117	3620	4940	72600	68020	99000	92900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Executive Engineer EHV
(CIVIL) NTDC Lahore.

TENDER NO. XEN-PL26R-2021-2022: CONSTRUCTION OF BOUNDARY WALL
ALONG WITH MAIN ENTRANCE GATE AT 500/220KV GRID STATION LAHORE
NORTH.

Reference # CED/TFL **5118** (Dr. Rizwan Riaz)

Dated: 20-05-2024

Reference of the request letter # 411-13/XEN/EHV/WE-76(1)

Dated: 17-05-2024

Tension Test Report (Page -1/1)

Date of Test 20-05-2024

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	0.375	3	0.375	0.11	0.110	3220	4700	64600	64320	94200	93900	1.10	13.8	S.J Steel	
2	0.358	3	0.366	0.11	0.105	3160	4480	63400	66130	89800	93800	1.20	15.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
#3 Bar Bend Test Through 180° is Satisfactory															

Witness by Nadeem Akram (Sub Engineer Civil)

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
ACE - ARTS (Consultants)
Establishment of University of Applied Engineering and Emerging Technologies
(UAEET) Sambrial, Sialkot

Reference # CED/TFL **5234** (Dr.Rizwan Riaz)
Reference of the request letter # ER/UAEET/ACE/ME/2024/21

Dated: 10-06-2024
Dated: 07-06-2024

Tension Test Report (Page -1/1)

Date of Test 10-06-2024
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	0.364	3	0.369	0.11	0.107	3300	4500	66200	68000	90200	92800	1.40	17.5	Heat # 63-X 91-X 514-P Sheikhoo Steel
2	0.362	3	0.368	0.11	0.106	3300	4500	66200	68300	90200	93200	1.50	18.8	
3	0.370	3	0.372	0.11	0.109	3700	4800	74200	75080	96200	97500	1.20	15.0	
4	0.371	3	0.373	0.11	0.109	3700	4900	74200	74710	98200	99000	1.10	13.8	
5	0.367	3	0.371	0.11	0.108	3300	4600	66200	67390	92200	94000	1.40	17.5	
6	0.372	3	0.373	0.11	0.109	3500	4600	70200	70510	92200	92700	1.30	16.3	
Note: only Six samples for tensile and three sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#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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