



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

To,
 Projects Manager ICPL
 Izhar Construction (Pvt) Ltd
 OMBRe' Holding Pvt Ltd Raiwind, Lahore

Reference # CED/TFL **3042** (Dr. Usman Akmal)
 Reference of the request letter # OMBRe'/Ittefaq/Steel/014

Dated: 04-04-2023
 Dated: 03-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	0.378	10	9.55	0.12	0.111	3540	5150	65036	70280	94614	102300	1.20	15.0	Ittefaq Steel
2	0.372	10	9.48	0.12	0.109	3440	5070	63199	69300	93144	102200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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

To,

Assistant Director
Building Section
Defence Housing Authority
Gujranwala
(Construction of Villas (Block – D))

Reference # CED/TFL **3044** (Dr. Usman Akmal)
Reference of the request letter # 111/3/AD Bldgs/Gen/39

Dated: 04-04-2023

Dated: 04-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023

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	0.363	3	0.368	0.11	0.107	3870	4760	77600	80010	95400	98500	1.10	13.8	Kamran Steel	
2	0.360	3	0.367	0.11	0.106	2960	4150	59400	61660	83200	86500	1.60	20.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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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Ref: CED/TFL/04/3046

Dated: 04-04-2023

Date of Test: 06-04-2023

To,

M/S M. Hanif & Sons
Lahore

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/3046)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 04/04/2023 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

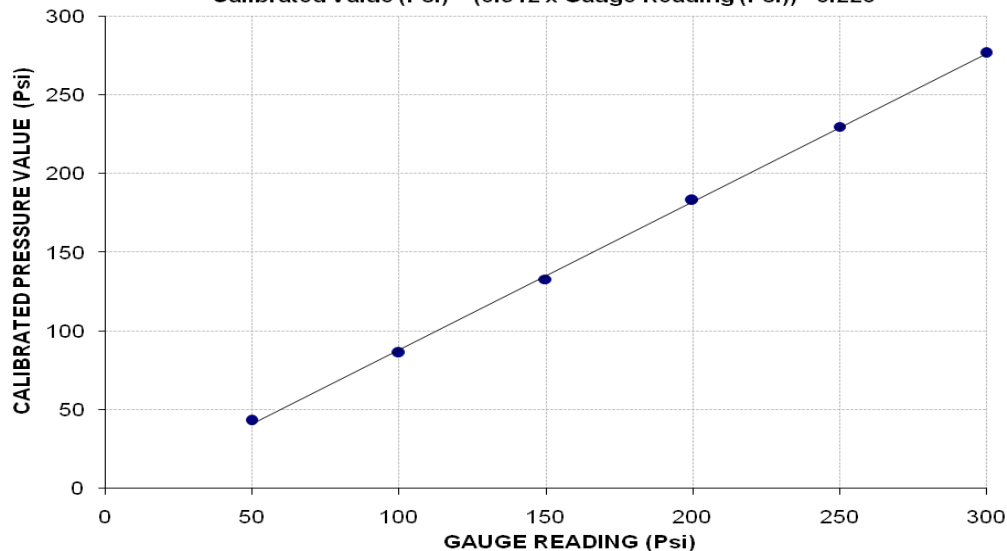
Total Range : Zero - 350 (Psi)
Calibrated Range : Zero - 300 (Psi)

Pressure Gauge Reading (Psi)	50	100	150	200	250	300
Calibrated Load (kg)	600	1200	1850	2550	3200	3850
Calibrated Pressure (Psi)	43	86	133	183	230	277

The Ram Area for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. EN 837-1

Calibrated Value (Psi) = (0.942 x Gauge Reading (Psi)) - 6.225



I/C Testing Laboratories
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Test Floor Laboratory
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To,

Project Manager
Unicon Consulting Services (Pvt) Ltd
Construction of Capacity Building Center at University of Agriculture, Faisalabad

Reference # CED/TFL **3047** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 04-04-2023
Dated: 03-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
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	0.385	3	0.379	0.11	0.113	3590	5050	72000	69960	101200	98500	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3410	4810	68400	68840	96400	97100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,

Resident Engineer
 Velosi Integrity & Safety Pakistan (Pvt) Ltd.
 Design and Resident Type Supervision of Loding Facility 1000 Female Hostel at UAF,
 Faisalabad

Reference # CED/TFL **3048** (Dr. Usman Akmal)
 Reference of the request letter # VISP/AUF/002

Dated: 04-04-2023
 Dated: 27-03-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	0.376	3	0.375	0.11	0.111	3520	4910	70600	70200	98400	98000	1.20	15.0	FF Steel
2	0.371	3	0.373	0.11	0.109	3470	4860	69600	70140	97400	98300	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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To,

Project Manager
 Rizwan Associates
 Construction of Regional Nuclear Safety Inspectorate Office Building at LHR, Johar town.

Reference # CED/TFL **3050** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 05-04-2023
 Dated: 04-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	3570	4890	71600	72110	98000	98800	1.00	12.5	FF Steel
2	0.370	3	0.372	0.11	0.109	3590	4950	72000	72680	99200	100300	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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To,
 M/S Building Standards
 Lahore
 (Project for Blairian Developers)

Reference # CED/TFL **3051** (Dr. Usman Akmal)
 Reference of the request letter # GT/LTR/230215-019

Dated: 05-04-2023
 Dated: 15-02-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	4030	4890	80800	81330	98000	98700	0.80	10.0	
2	0.370	3	0.372	0.11	0.109	4280	5100	85800	86780	102200	103500	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.

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Pakistan. Ph: 92-42-99029202

To,
 Project Manager – Technical
 Sitara Developers
 Construction of Flyover at Sitara Green City.

Reference # CED/TFL **3052** (Dr. Usman Akmal)
 Reference of the request letter # SGC/UIA/24

Dated: 05-04-2023
 Dated: 04-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	0.378	10	9.56	0.12	0.111	4300	5100	78998	85200	93696	101100	1.10	13.8	Faizan Steel
2	0.379	10	9.56	0.12	0.111	4280	5070	78631	84730	93144	100400	1.10	13.8	
3	4.157	32	31.68	1.25	1.222	37200	51400	65609	67110	90653	92800	1.70	21.3	
4	4.159	32	31.69	1.25	1.223	37600	51800	66314	67790	91359	93400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Sub Divisional Officer
 The Punjab Employees Social Security Institution, Lahore
 Construction of Social Security Hospital Sargodha (Phase-II)

Reference # CED/TFL **3053** (Dr. Usman Akmal)
 Reference of the request letter # SS.DC(207)23/1002

Dated: 05-04-2023
 Dated: 04-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
 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	0.376	3	0.375	0.11	0.111	3770	4590	75600	75190	92000	91600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
Manager QA/QC
New Metro City
Mandi Bahaudin

Reference # CED/TFL **3056** (Dr. Usman Akmal)
Reference of the request letter # MMC/MBD/9

Dated: 05-04-2023
Dated: 24-02-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.154	5	4.99	-----	19.6	990	1270	496	637	1.20	15.0	
2	0.157	5	5.05	-----	20.1	990	1120	484	548	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
5mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
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Pakistan. Ph: 92-42-99029202

To,

M/S Prime Steel Re-Rolling Mills
 Sheikhpura
 (Prime Steel – Retest)

Reference # CED/TFL **3058** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 06-04-2023

Dated: 06-04-2023

Tension Test Report (Page -1/1)

Date of Test 06-04-2023

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	4.261	10	1.263	1.27	1.253	-----	53800	-----	-----	93400	94700	1.50	18.8	1
2	4.302	10	1.269	1.27	1.265	-----	62000	-----	-----	107600	108100	0.60	7.5	2
3	4.309	10	1.270	1.27	1.267	33600	56000	58400	58470	97200	97500	1.40	17.5	3
4	4.271	10	1.264	1.27	1.256	-----	59400	-----	-----	103100	104300	0.70	8.8	4
5	4.302	10	1.269	1.27	1.265	-----	62000	-----	-----	107600	108100	0.40	5.0	5
6	4.349	10	1.276	1.27	1.278	33200	55200	57700	57250	95800	95200	1.40	17.5	6

Note: only six samples for tensile and six samples for bend test

Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Failed														
#10 Bar Bend Test Through 180° is Failed														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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