



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/02/36102

Dated: 17-02-2021

Date of Test: 22-02-2021

To,
Dy Dir MTL
Defence Housing Authority
Development Works of Sector-IV DHA Rahber Ph-XI (M/s DHA Const. Co)

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/36102) (Page # 1/2)

Reference to your Letter No. 408/241/E/Lab/33/08, Dated: 17/02/2021 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:

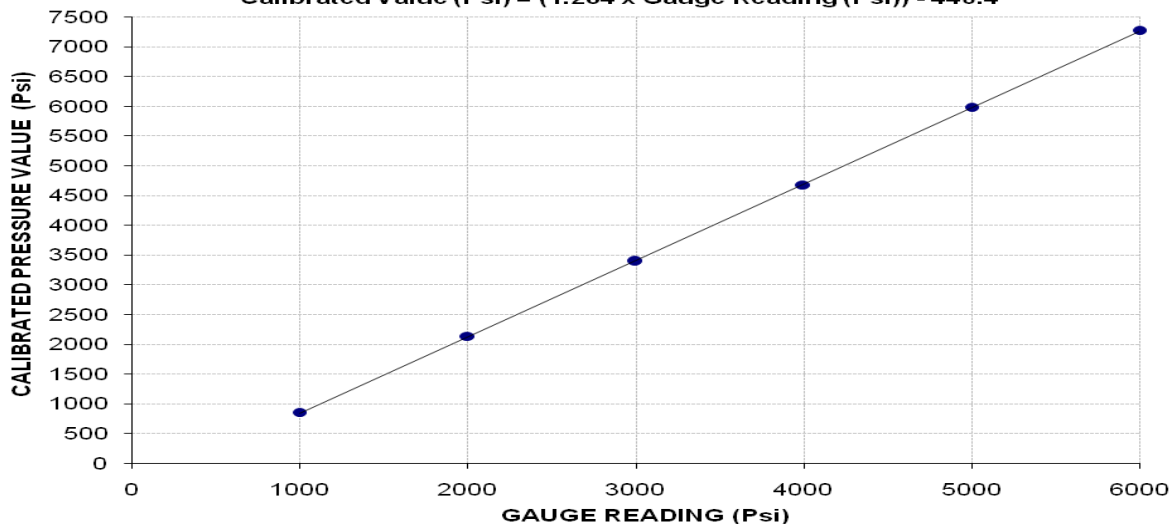
Total Range : Zero - 15000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000
Calibrated Load (k g)	9300	23100	36700	50600	64800	78800
Calibrated Pressure (Psi)	859	2134	3391	4675	5987	7281

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge

Calibrated Value (Psi) = (1.284 x Gauge Reading (Psi)) - 440.4



I/C Testing Laboratories
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



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To,

Dy Dir MTL

Defence Housing Authority

Development Works of Sector-IV DHA Rahber Ph-XI (M/s DHA Const. Co)

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/02/36102) (Page # 2/2)

Reference to your Letter No. 408/241/E/Lab/33/08, Dated: 17/02/2021 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 100 (mm)
Calibrated Range : Zero - 15 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (4500)	Dial Gauge No. II (5503)	Dial Gauge No. III (1A14447)
100	97	94	97
200	199	196	196
300	298	294	295
400	398	393	395
500	498	494	495
600	598	595	595
700	698	694	695
800	797	795	795
900	897	891	895
1000	997	994	994
1100	1098	1090	1094
1200	1198	1190	1194
1300	1297	1290	1295
1400	1397	1390	1394
1500	1497	1490	1494

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sr. Manager Coordination
 Izhar Construction (Pvt) Ltd
 Construction of Mill Building & Cotton Godowns at Nishat Mills Limited, Sahianwala,
 Faisalabad

Reference # CED/TFL **36108** (Dr. Qasim Khan) Dated: 19-02-2021
 Reference of the request letter # ICPL/CONST-NML/21/017 Dated: 19-02-2021

Tension Test Report (Page -1/1)

Date of Test 22-02-2021
 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	0.410	10	9.95	0.12	0.120	3700	4900	67975	67690	90021	89700	1.00	12.5	
2	0.409	10	9.94	0.12	0.120	3600	4800	66138	65930	88184	87900	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.

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To,
 Assistant Project Director,
 Air University Multan Campus
 Infra-structure Development Phase-01

Reference # CED/TFL **36110** (Dr. Qasim Khan)
 Reference of the request letter # MUX/AUMC/ISD/2021/08

Dated: 19-02-2021
 Dated: 16-02-2021

Tension Test Report (Page -1/1)

Date of Test 22-02-2021
 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	3100	4600	62200	63050	92200	93600	1.30	16.3	FF Steel
2	0.377	3	0.376	0.11	0.111	3100	4600	62200	61580	92200	91400	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														

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UET Lahore, Pakistan.

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