



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

To,  
Sub Divisional Officer  
Building Sub Division  
Shahkot  
(Establishment of Tramu Center in THQ Hospital Shahkot District Nankana Sahin)

Reference # CED/TFL **1359** (Dr. Ali Ahmed)  
Reference of the request letter # 2699/SDO/BSD/SKT

Dated: 10-05-2022  
Dated: 30-03-2022

**Tension Test Report** (Page -1/1)

Date of Test 11-05-2022  
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 <sup>2</sup> )		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	0.387	3/8	0.380	0.11	0.114	3700	4900	74200	71780	98200	95100	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Imran Steel Traders  
Lahore  
(Construction of Additional Class Room in School in Punjab, Construction of Additional Class Room at GMS Abadi Rasool Pur Tehsil Depalpur District Okara.)

Reference # CED/TFL **1360** (Dr. Ali Ahmed)  
Reference of the request letter # 41

Dated: 10-05-2022  
Dated: 10-05-2022

**Tension Test Report** (Page -1/1)

Date of Test 11-05-2022  
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 <sup>2</sup> )		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	0.379	3/8	0.377	0.11	0.111	-----	4700	-----	-----	94200	93000	0.70	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/05/1361

Dated: 10-05-2022

Date of Test: 11-05-2022

To,  
**M/S Bemsol Private Limited**  
**Lahore**

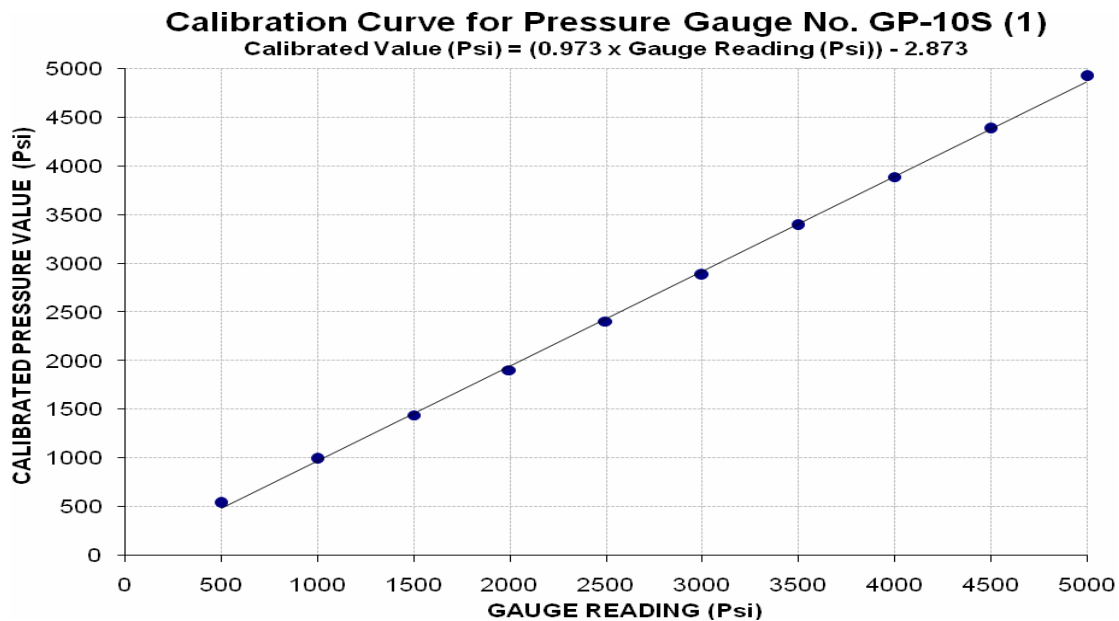
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/1361)** (Page # 1/4)

Reference to your Letter No. BPL/UET/22/021, Dated: 10/05/2022 on the subject cited above. One Pressure Gauge No. (1) Model GP-10S, Make ENERPAC as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 5000 (Psi)**

<b>Pressure Gauge Reading (Psi)</b>	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
<b>Calibrated Load (kg)</b>	7500	13800	20100	26500	33500	40100	47200	54100	61000	68500
<b>Calibrated Pressure (Psi)</b>	539	991	1444	1904	2406	2881	3391	3886	4382	4921

The Ram Area for Calibration = 198 cm<sup>2</sup>



**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/05/1361

Dated: 10-05-2022

Date of Test: 11-05-2022

To,

**M/S Bemsol Private Limited**  
**Lahore**

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/1361)** (Page # 2/4)

Reference to your Letter No. BPL/UET/22/021, Dated: 10/05/2022 on the subject cited above. One Pressure Gauge No. (2) Model GP-10S, Make ENERPAC as received by us has been calibrated. The results are tabulated as under:

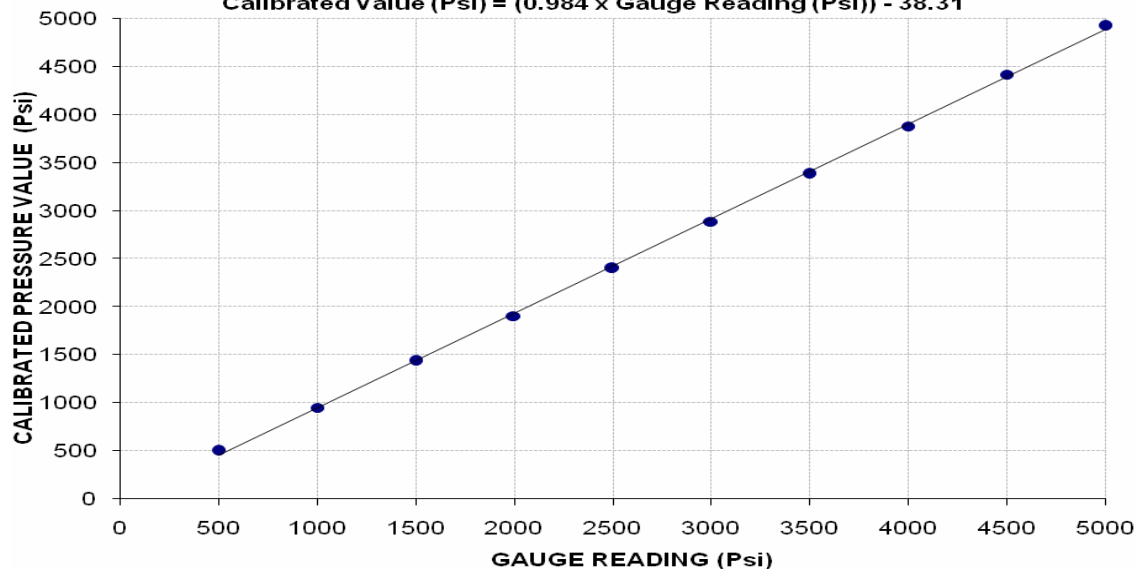
**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 5000 (Psi)**

<b>Pressure Gauge Reading (Psi)</b>	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
<b>Calibrated Load (kg)</b>	7000	13200	20000	26500	33400	40200	47100	54000	61500	68500
<b>Calibrated Pressure (Psi)</b>	503	948	1437	1904	2399	2888	3383	3879	4418	4921

The Ram Area for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. GP-10S (2)**

**Calibrated Value (Psi) = (0.984 x Gauge Reading (Psi)) - 38.31**



**I/C Testing Laboratoires**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/05/1361

Dated: 10-05-2022

Date of Test: 11-05-2022

To,

**M/S Bemsol Private Limited**  
**Lahore**

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/1361)** (Page # 3/4)

Reference to your Letter No. BPL/UET/22/021, Dated: 10/05/2022 on the subject cited above. One Pressure Gauge No. (3) Model GP-10S, Make ENERPAC as received by us has been calibrated. The results are tabulated as under:

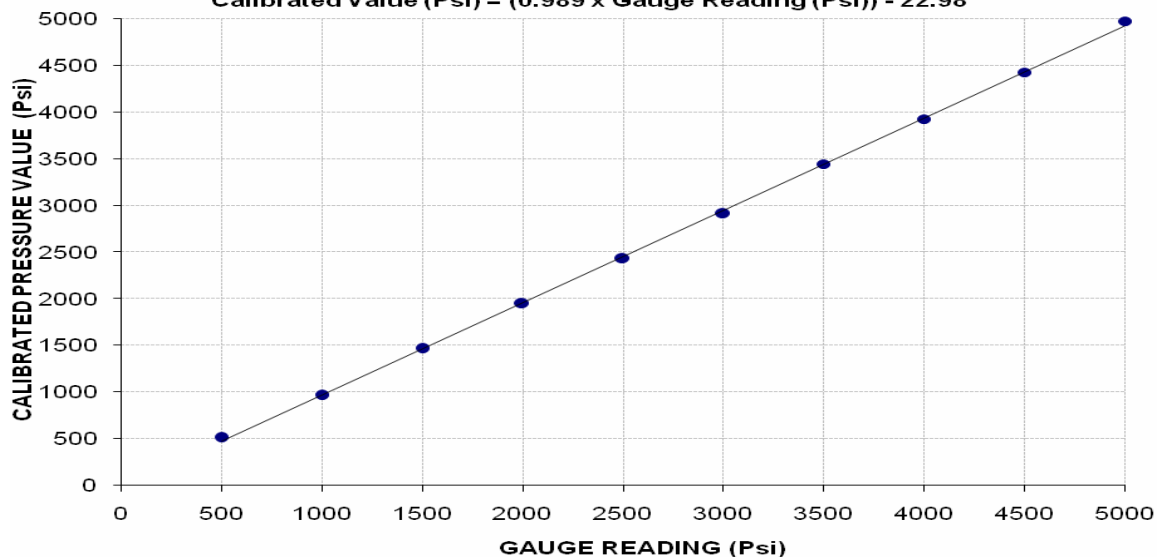
**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 5000 (Psi)**

<b>Pressure Gauge Reading (Psi)</b>	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
<b>Calibrated Load (kg)</b>	7100	13400	20400	27100	33800	40500	47900	54600	61600	69200
<b>Calibrated Pressure (Psi)</b>	510	963	1465	1947	2428	2909	3441	3922	4425	4971

The Ram Area for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. GP-10S (3)**

**Calibrated Value (Psi) = (0.989 × Gauge Reading (Psi)) - 22.98**



**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/05/1361

Dated: 10-05-2022

Date of Test: 11-05-2022

To,

**M/S Bemsol Private Limited**  
**Lahore**

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/1361)** (Page # 4/4)

Reference to your Letter No. BPL/UET/22/021, Dated: 10/05/2022 on the subject cited above. One Pressure Gauge No. (4) Model EN 837-1, Make WIKA as received by us has been calibrated. The results are tabulated as under:

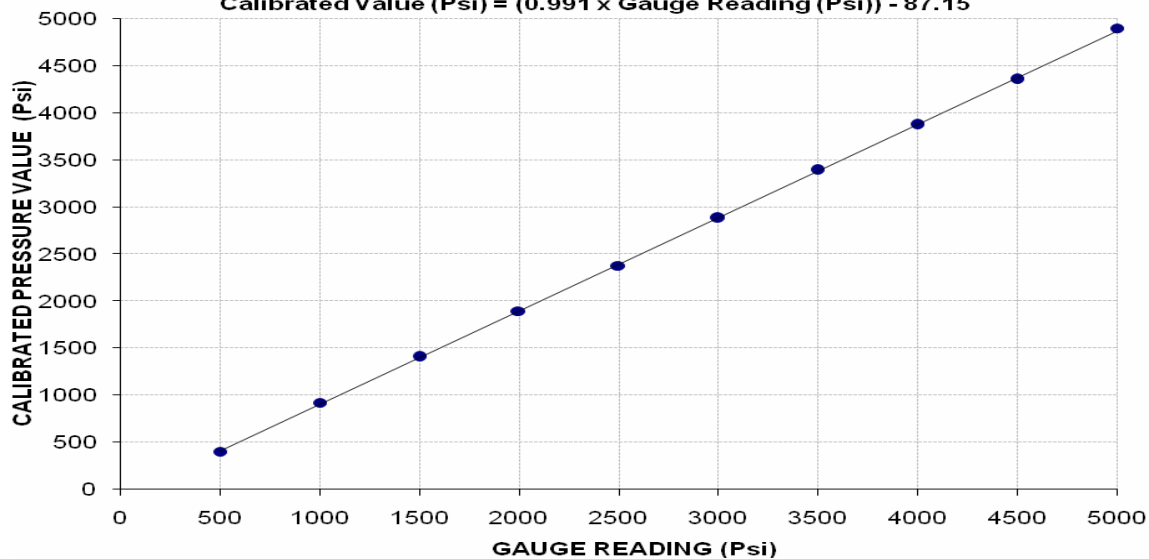
**Total Range : Zero - 8700 (Psi)**  
**Calibrated Range : Zero - 5000 (Psi)**

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
Calibrated Load (kg)	5600	12800	19600	26400	33100	40100	47200	53900	60600	68200
Calibrated Pressure (Psi)	402	919	1408	1896	2378	2881	3391	3872	4353	4899

The Ram Area for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. EN 837-1 (4)**

**Calibrated Value (Psi) = (0.991 x Gauge Reading (Psi)) - 87.15**



**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Highway Sub Division  
 Shorkot  
 (Special Repair of Bridge over Trimmu Sidhnai Link Canal at RD 136+085 Shorkot City to  
 Shorkot Cantt Road km No. 16 Length: 100 Rft)  
 Reference # CED/TFL **1362** (Dr. Ali Ahmed)  
 Reference of the request letter # 58

Dated: 10-05-2022  
 Dated: 26-01-2022

**Tension Test Report** (Page -1/1)

Date of Test 11-05-2022  
 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 <sup>2</sup> )		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	0.373	3/8	0.373	0.11	0.110	3300	5000	66200	66390	100200	100600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

**I/C Testing Laboratoires**  
**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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples