



**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/12/4344

Dated: 12-12-2023

Dated of Test: 15-12-2023

To,

M/S Amjad Engineering Services  
Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/4344) (Page -1/2)

Reference to your Letter No. Nil, Dated: 12/12/2023 on the subject cited above. One Pressure Gauge No. AES-313 as received by us has been calibrated. The results are tabulated as under:

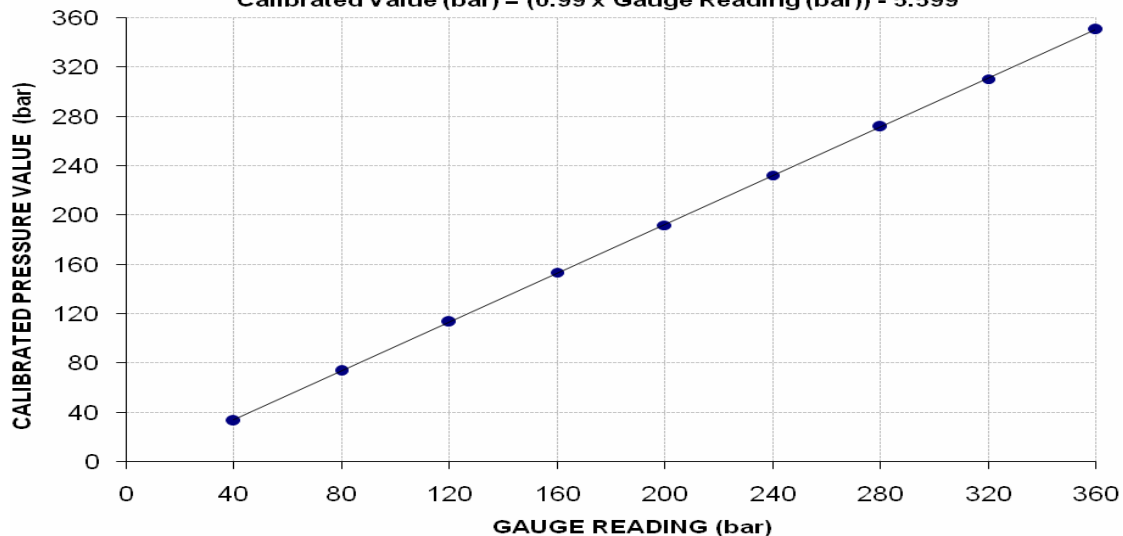
**Total Range : Zero - 1000 (bar)**  
**Calibrated Range : Zero - 360 (bar)**

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	6700	14900	22900	31000	38800	46900	54900	62700	70800
Calibrated Pressure (bar)	33	74	113	154	192	232	272	311	351

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

**Calibration Curve for Pressure Gauge No. AES 313**

**Calibrated Value (bar) = (0.99 × Gauge Reading (bar)) - 5.599**



**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/12/4344  
Dated of Test: 15-12-2023

Dated: 12-12-2023

To,  
M/S Amjad Engineering Services  
Lahore

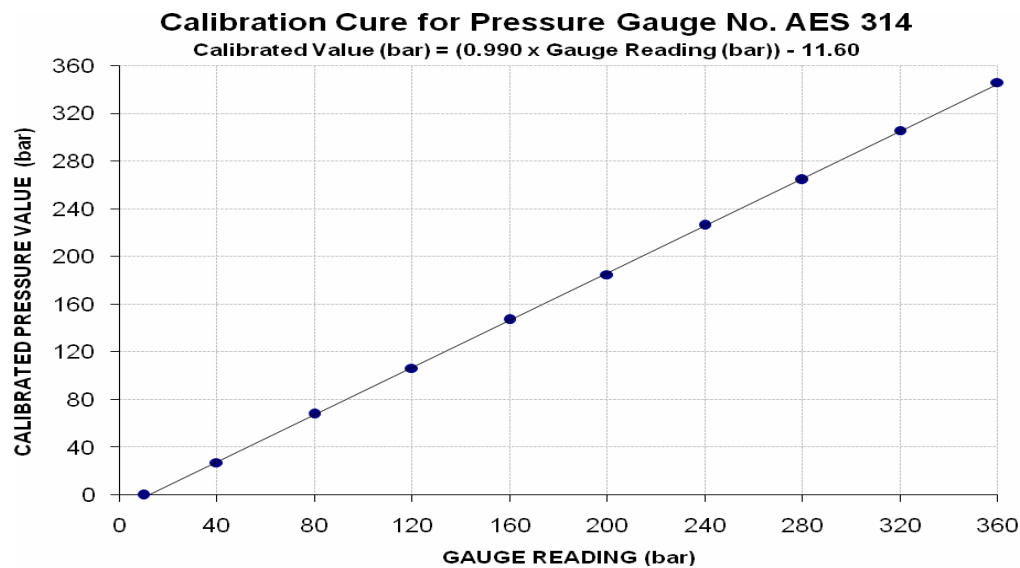
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/4344) (Page -2/2)

Reference to your Letter No. Nil, Dated: 12/12/2023 on the subject cited above. One Pressure Gauge No. AES-314 as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 1000 (bar)**  
**Calibrated Range : Zero - 360 (bar)**

Pressure Gauge Reading (bar)	10	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	0	5500	13700	21500	29700	37300	45700	53400	61700	69900
Calibrated Pressure (bar)	0	27	68	106	147	185	226	264	306	346

The Ram Area use 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**

To,  
 Manager  
 ABL - UML P-199 & 200  
 Allied Bank  
 Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **4361** (Dr. Qasim Khan)  
 Reference of the request letter # ABL-UML-AMC-QAQC-54

Dated: 15-12-2023  
 Dated: 15-12-2023

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

Date of Test 15-12-2023  
 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 <sup>2</sup> )		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	4.162	10	1.248	1.27	1.224	34200	51600	59400	61610	89600	93000	1.50	18.8	Batala Steel
2	4.194	10	1.253	1.27	1.233	34800	52400	60400	62230	91000	93700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Nabeel Nawaz (Officer Civil ABL Engineering)

**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/12/4362

Dated: 15-12-2023

Dated of Test: 15-12-2023

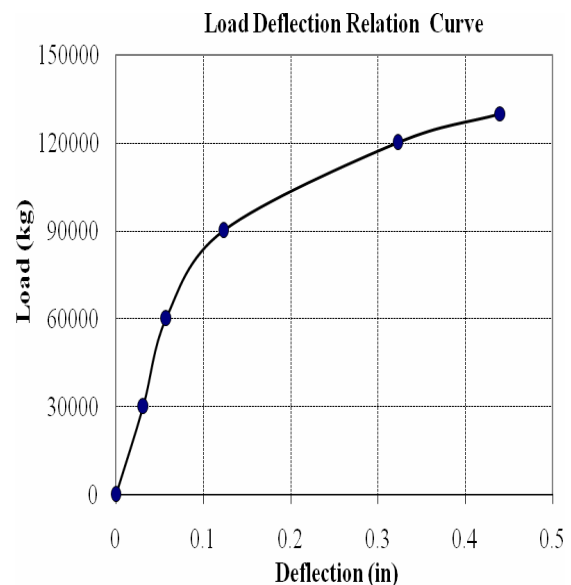
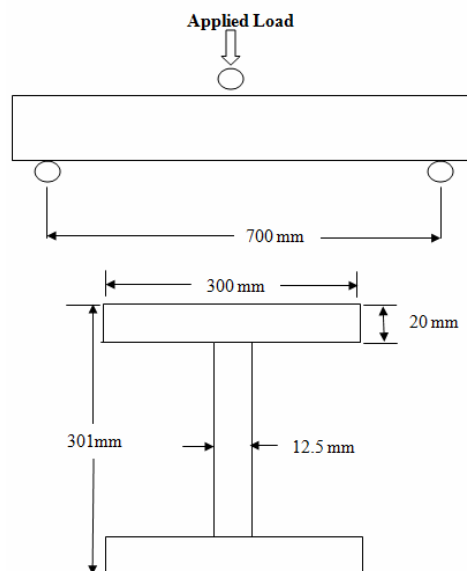
To

**Project Manager**  
**Pwr construction of China Limited**  
**Tarabela 5<sup>th</sup> Extension Hydropower Project Management Department.**

**Subject: - TESTING OF PRE-FABRICATED H-BEAM FOR LOAD TEST.**

Reference to your letter no. PCCCL/t5-CIVIL/2023-1853, dated: 14/12/2023 on the above-mentioned subject. One Pre-fabricated steel H-beam for load test as received by us has been tested in flexure and the results are given below:

Load (kg)	0	30,000	60,000	90,000	120,000	130,000
Mid Span deflection (inch)	0	0.032	0.058	0.123	0.323	0.440



**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**

**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