



**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/09/5737

Dated: 30-09-2024

Dated of Test: 03-10-2024

To

**Manager Material (Engr)**  
**Central Material Testing Laboratories**  
**Defence Housing Authority Islamabad - Rawalpindi**

**Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**  
**(MARK: TFL/09/5737) (Page # 1/1)**

Reference to your Letter No. DHAI-R/QA Sec/Central Lab/Ph-I, dated: 30/09/2024 on the subject cited above. One Hydraulic with Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

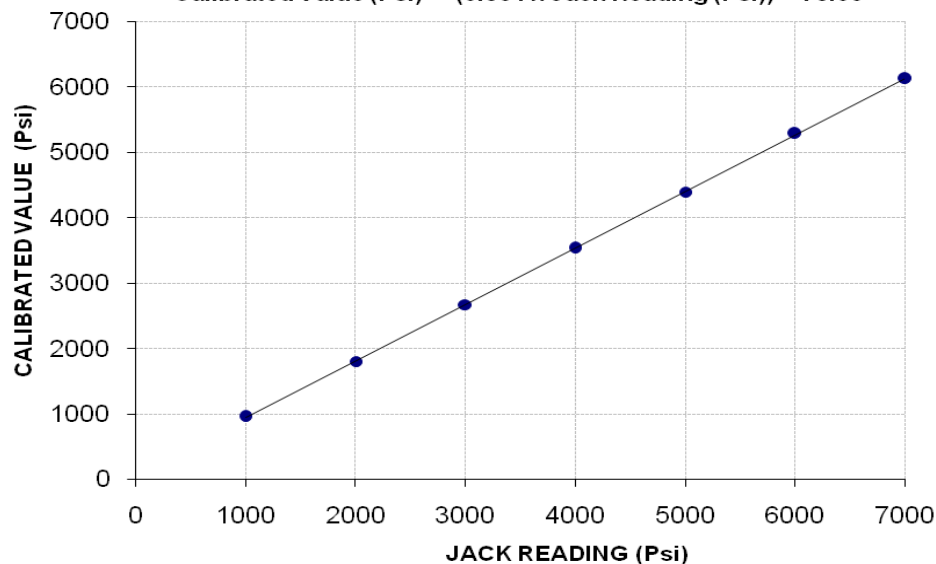
**Total Range : Zero - 9000 (Psi)**  
**Calibrated Range : Zero - 7000 (Psi)**

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000
Calibrated Load (kg)	11000	20700	30800	40700	50600	60900	70600
Calibrated Pressure (Psi)	954	1795	2671	3530	4388	5282	6123

The Ram Area of Jack = 164 cm<sup>2</sup>

**Calibration Curve For Jack**

**Calibrated Value (Psi) = (0.864 x Jack Reading (Psi)) + 78.05**



**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



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To,  
Samiullah Khan  
Assistant Manager, NCUAS (AWC)  
Construction of B2 at Fateh Jang, Rawalpindi

Reference # CED/TFL **6655** (Dr. Safeer Abbas)  
Reference of the request letter # Nil

Dated: 05-03-2025  
Dated: 24-02-2024

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

Date of Test 05-03-2025  
Gauge length 8 inches  
Description Anchor Bolt Bar Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	7.947	36	35.90	-----	1012.4	52600	69600	510	674	1.60	20.0	
2	8.060	36	36.16	-----	1026.7	48600	65600	464	627	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,

Executive Project Manager  
China Civil Engineering Construction Corporation  
Pakistan Branch Office  
(ICB No. DSU KKH-01)

Reference # CED/TFL **6652** (Dr. Safeer Abbas)

Dated: 04-03-2025

Reference of the request letter # CCECC/PAK/DASUFFIELD/KKH-01/25-060 Dated: 01-03-2025

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

Date of Test 05-03-2025

Gauge length 2 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A370

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual		
1	4.319	32	32.29	1.25	1.269	89200	105600	157320	154870	186245	183400	0.60	
2	4.345	32	32.39	1.25	1.277	86900	101200	153264	149980	178484	174700	0.60	
3	4.338	32	32.36	1.25	1.275	-----	44400	-----	-----	78307	76800	0.60	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile test</b>													
Bend Test													

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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