



**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/05/1454

Dated: 27-05-2022

Dated of Test: 02-06-2022

**To**  
**M/S Condrill (Pvt) Ltd**  
**Lahore**

**Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**  
**(MARK: TFL/05/1454) (Page # 1/1)**

Reference to your Letter No. CD/Misc/2022/8780, dated: 27/05/2022 on the subject cited above. One Hydraulic with Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

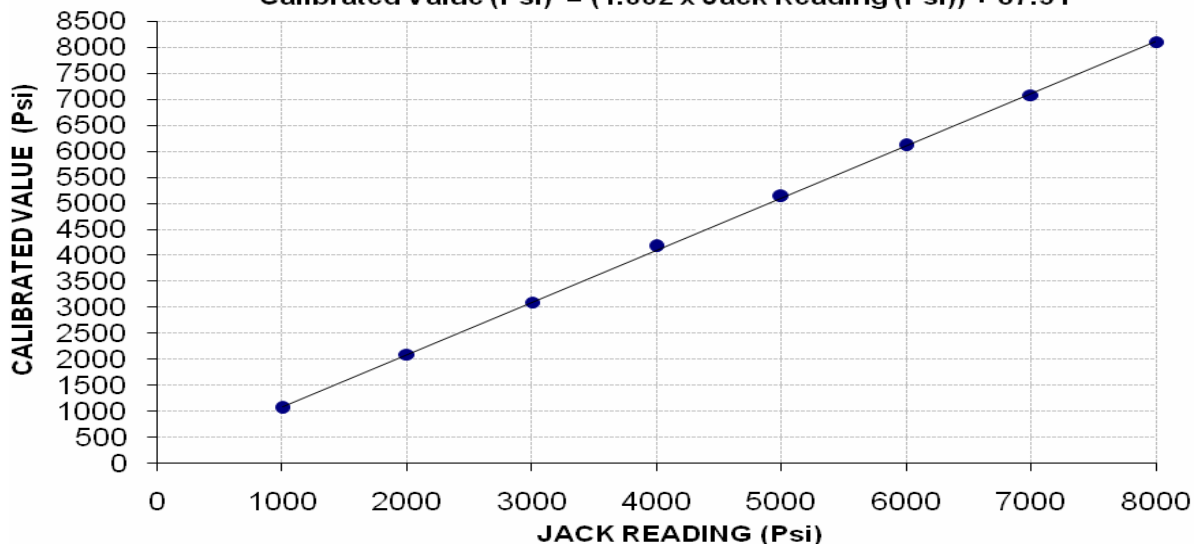
**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 8000 (Psi)**

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000	8000
Calibrated Load (kg)	9900	19600	29000	39100	48100	57300	66400	76000
Calibrated Pressure (Psi)	1055	2088	3090	4166	5125	6105	7074	8097

The Ram Area of Jack = 133.55 cm<sup>2</sup>

### Calibration Curve For Jack

$$\text{Calibrated Value (Psi)} = (1.002 \times \text{Jack Reading (Psi)}) + 87.51$$



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

Note:

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**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Muddasir Ali  
 Lahore

Reference # CED/TFL **1472** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 01-06-2022  
 Dated: 01-06-2022

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

Date of Test 02-06-2022  
 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	0.377	3	0.375	0.11	0.111	3900	5200	78200	77650	104200	103600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Civil Engineer  
 The Cooperative Model Town Society (1962) Ltd  
 (Modification of Multiplex Building into Society Head Office Model Town Lahore)

Reference # CED/TFL 1473 (Dr. Usman Akmal)  
 Reference of the request letter # CEM-S=1402/21

Dated: 01-06-2022  
 Dated: 26-05-2022

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

Date of Test 02-06-2022  
 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	0.377	3	0.375	0.11	0.111	4400	5100	88200	87610	102200	101600	0.90	11.3	
2	0.376	3	0.375	0.11	0.110	4400	5100	88200	87860	102200	101900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Sub Divisional Officer  
 Buildings Sub Division  
 Chakwal  
 (Construction of Building at University of Chakwal (City Campus) Construction of Academic Block-1/ Construction of Library Block Ground / First Floor with Additional Items & Architectural Features)  
 Reference # CED/TFL **1475** (Dr. Usman Akmal) Dated: 01-06-2022  
 Reference of the request letter # 459/CKL Dated: 25-03-2022

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

Date of Test 02-06-2022  
 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	0.354	3/8	0.364	0.11	0.104	3500	4600	70200	74050	92200	97400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Abdul Qadir  
 Lahore

Reference # CED/TFL **1476** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 01-06-2022  
 Dated: 01-06-2022

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

Date of Test 02-06-2022  
 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	0.391	3	0.383	0.11	0.115	3700	5700	74200	70970	114300	109400	0.90	11.3	SJ Steel
2	0.080	3	0.173	0.11	0.023	3800	6000	76200	356420	120300	562800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Sub Divisional Officer  
 Buildings Sub Division  
 Shujabad  
 (Re-Const. of Class Rooms and Examination Hall in Govt. Islamia High School Haram Gate  
 Multan)  
 Reference # CED/TFL **1477** (Dr. Usman Akmal)  
 Reference of the request letter # 1003/Shujabad

Dated: 01-06-2022  
 Dated: 12-05-2022

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

Date of Test 02-06-2022  
 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	0.369	3/8	0.372	0.11	0.109	2800	4200	56200	56840	84200	85300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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To,  
 Planning & Coordination Engineer  
 Ittefaq Building Solution Pvt Ltd  
 Master Textile Mills Ltd. (Extension of Spinning Unit M-7)

Reference # CED/TFL **1480** (Dr. Usman Akmal)  
 Reference of the request letter # IBS/M-7/Steel/1-06-2022

Dated: 01-06-2022  
 Dated: 01-06-2022

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

Date of Test 02-06-2022  
 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	0.389	3	0.381	0.11	0.114	3800	5000	76200	73290	100200	96500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Resident Engineer  
 New Vision Engineering Consultants  
 Civil Infrastructure Development Works for Sector - E DHA Bahawalpur

Reference # CED/TFL **1481** (Dr. Usman Akmal)  
 Reference of the request letter # RE/NVEC/Sec-E/124

Dated: 01-06-2022  
 Dated: 24-05-2022

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

Date of Test 02-06-2022  
 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	0.373	3	0.373	0.11	0.110	3400	5300	68200	68420	106200	106700	1.20	15.0	SJ Steel
2	0.359	3	0.366	0.11	0.105	3400	5200	68200	71080	104200	108700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Executive Engineer (B&W)  
 UVAS, Lahore  
 (Provision of Urgently Needed Male Hostel, Facilities at University of Veterinary & Animal Sciences at Ravi Campus, Pattoki)

Reference # CED/TFL **1483** (Dr. Usman Akmal)  
 Reference of the request letter # E. E 745

Dated: 01-06-2022  
 Dated: 24-05-2022

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

Date of Test 02-06-2022  
 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	0.377	3/8	0.375	0.11	0.111	3800	4900	76200	75680	98200	97600	1.10	13.8	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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