



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/06/5279

Dated: 27-06-2024

Dated of Test: 03-07-2024

To

Senior Project Manager
One Serene Residence (Pvt) Ltd.
One Serene Residence Project at DHA Phase - III, Islamabad - Rawalpindi

Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/06/5279) (Page # 1/2)

Reference to your Letter No. OSR/LTR/231/Project, dated: 26/06/2024 on the subject cited above. One Hydraulic up to 100 ton with Pressure Gauge no. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

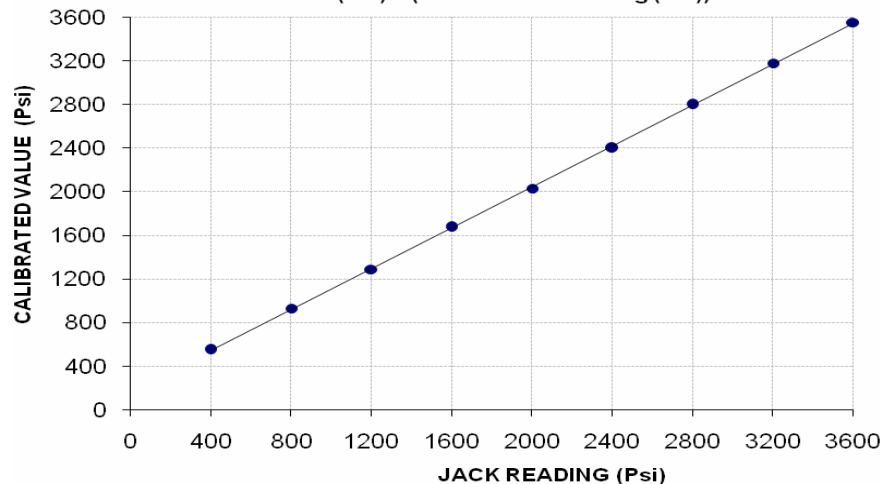
Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 3600 (Psi)

Hydraulic Jack Reading (Psi)	400	800	1200	1600	2000	2400	2800	3200	3600
Calibrated Load (kg)	14600	24600	34200	44400	53800	63600	74200	84200	94200
Calibrated Pressure (Psi)	551	928	1290	1675	2030	2399	2799	3177	3554

The Ram Area of Jack = 377 cm²

Calibration Curve For Jack Up to 100 Ton

Calibrated Value (Psi) = (0.937 × Jack Reading (Psi)) + 169.7



I/C Testing Laboratoires
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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One Serene Residence Project at DHA Phase - III, Islamabad - Rawalpindi

Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/06/5279) (Page # 2/2)

Reference to your Letter No. OSR/LTR/231/Project, dated: 26/06/2024 on the subject cited above. One Hydraulic up to 50 ton with Pressure Gauge no. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

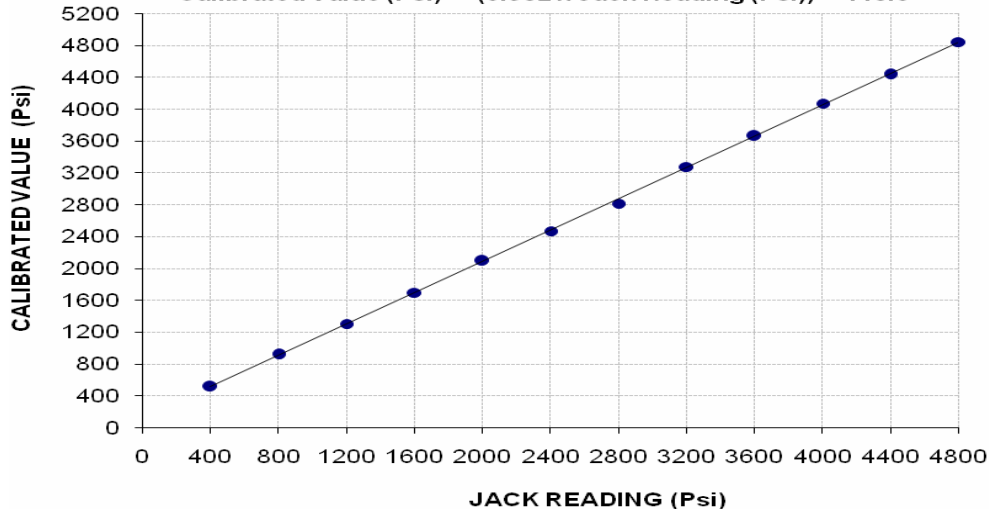
Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 4800 (Psi)

Hydraulic Jack Reading (Psi)	400	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
Calibrated Load (kg)	5050	9000	12800	16700	20600	24250	27700	32250	36050	40050	43650	47650
Calibrated Pressure (Psi)	513	914	1300	1697	2093	2464	2814	3276	3662	4069	4435	4841

The Ram Area of Jack = 133.5 cm²

Calibration Curve For Jack Up to 50 ton

Calibrated Value (Psi) = (0.982 x Jack Reading (Psi)) + 118.6



To,

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UET Lahore, Pakistan.

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Atta Ullah Arbani
Lake City, Lahore

Reference # CED/TFL **5296** (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 02-07-2024
Dated: 02-07-2024

Tension Test Report (Page -1/1)

Date of Test 03-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	3	0.371	0.11	0.108	3820	4840	76600	78000	97000	98900	0.90	11.3	
2	0.366	3	0.370	0.11	0.108	3810	4740	76400	78110	95000	97200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Tawasul Developers (Pvt.) Ltd.
Upper Mall, Lahore

Reference # CED/TFL **5297** (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 03-07-2024

Dated: 03-07-2024

Tension Test Report (Page -1/1)

Date of Test 03-07-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.368	3	0.371	0.11	0.108	3540	4740	71000	72170	95000	96700	1.60	20.0	
2	0.381	3	0.378	0.11	0.112	3740	4940	75000	73630	99000	97300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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