



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/07/36702

Dated: 06-07-2021

Dated of Test: 08-07-2021

To
M/S Rockwell Corporation (Pvt.) Ltd
Lahore

Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/07/36702) (Page # 1/1)

Reference to your Letter No. Nil, dated: 05/07/2021 on the subject cited above. One Hydraulic # AEW with Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

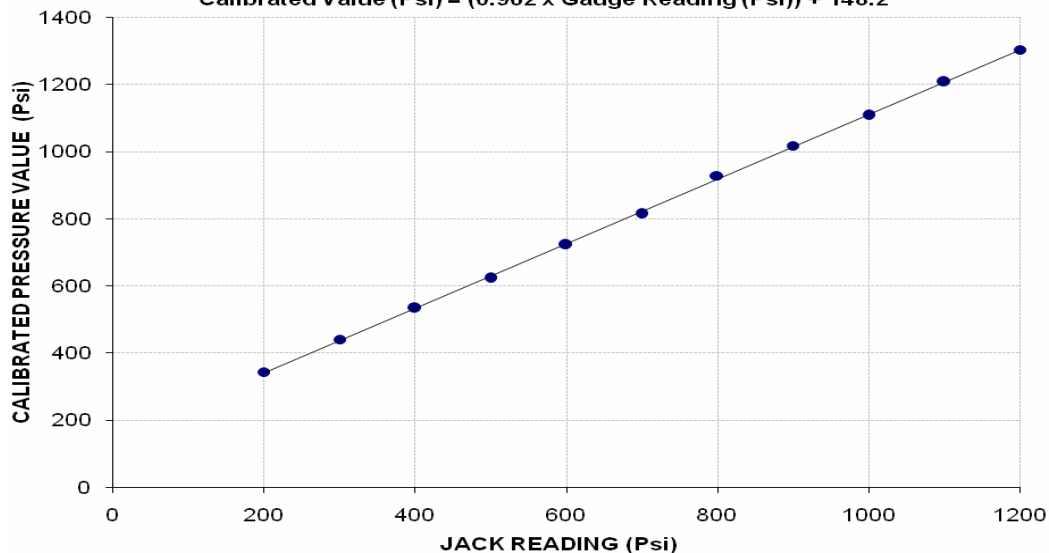
Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 1200 (Psi)

Hydraulic Jack Reading (Psi)	200	300	400	500	600	700	800	900	1000	1100	1200
Calibrated Load (kg)	49000	62800	76000	88800	103000	116000	132400	145000	158000	172200	185800
Calibrated Pressure (Psi)	344	441	533	623	722	814	929	1017	1108	1208	1303

The Ram Area of Jack = 314.29 in²

Calibration Curve for Jack # AEW

Calibrated Value (Psi) = (0.962 × Gauge Reading (Psi)) + 148.2



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Project Engineer
 MA Engineering Services
 Engro Enfrashare B2S Towers (Enfrashare Sites: QSBT03, KGH105, KKQ925, KISL04,
 NRO0243, KKKX762, KKZ315, Site Sale 60, Site Sale 62, Site Sale 29, Site Sale 38, Site Sale 25,
 43297)
 Reference # CED/TFL **36707** (Dr. Usman Akmal) Dated: 07-07-2021
 Reference of the request letter # MA/UET/LHR/008 Dated: 02-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		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	0.358	10	9.30	0.12	0.105	3500	4600	64301	73290	84510	96400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sub Divisional Officer
 Sub Division No. 17 (M&R)
 GOR-I, Lahore
 (A/A & Improvement of Residence No. 24-Aikman Road (IGP House) in GOR-I, Lahore)

Reference # CED/TFL **36708** (Dr. Usman Akmal)
 Reference of the request letter # 658

Dated: 07-07-2021
 Dated: 23-06-2021

Tension Test Report (Page -1/1)

Date of Test 08-07-2021
 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 ²)		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	0.386	3/8	0.380	0.11	0.114	3600	4700	72200	69900	94200	91300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Kamal Fabrics
Faisalabad

Reference # CED/TFL **36711** (Dr. USman Akmal)
Reference of the request letter # Nil

Dated: 07-07-2021
Dated: 07-07-2021

Tension Test Report (Page -1/1)

Date of Test 08-07-2021
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 ²)		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	0.388	3	0.381	0.11	0.114	3300	5000	66200	63770	100200	96700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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