



**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/10/37279

Dated: 29-10-2021

Date of Test: 03-11-2021

To,  
**Resident Engineer**  
**ACE - ACC - ZAK**  
**Construction of Lodhran - Multan Section (N-5)**

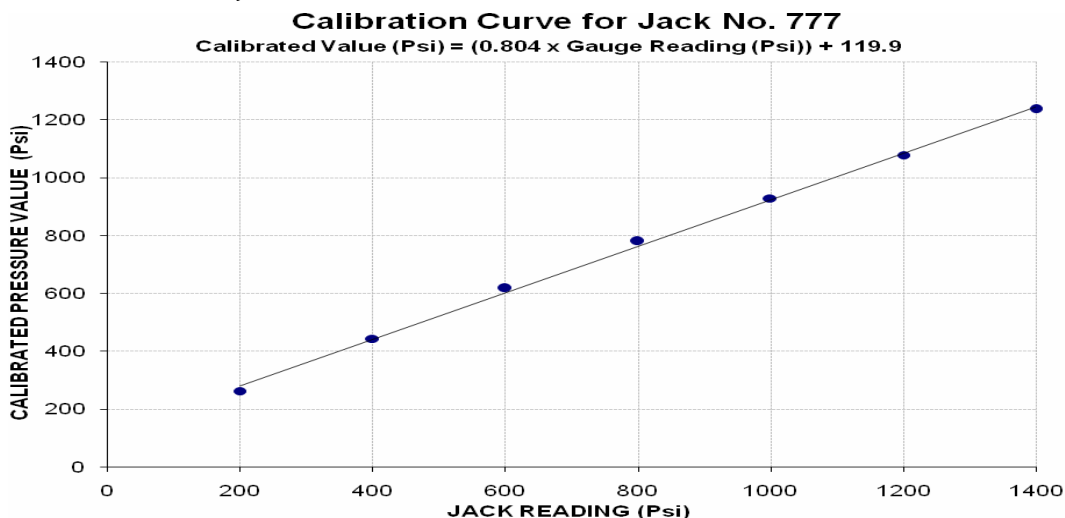
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**  
**(MARK: TFL/10/37279)** (Page # 1/2)

Reference to your Letter No. RE/ACE/LMP/2021/82, Dated: 29/10/2021 on the subject cited above. One Hydraulic Jack No. 777 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 - 1100 (Psi)**

<b>Hydraulic Jack Reading (Psi)</b>	400	600	800	1000	1200	1400
<b>Calibrated Load (kg)</b>	39200	66400	92400	116800	139000	161400
<b>Calibrated Pressure (Psi)</b>	262	443	617	780	928	1078

The Ram Area of Jack = 330.20 in<sup>2</sup>



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

Note:

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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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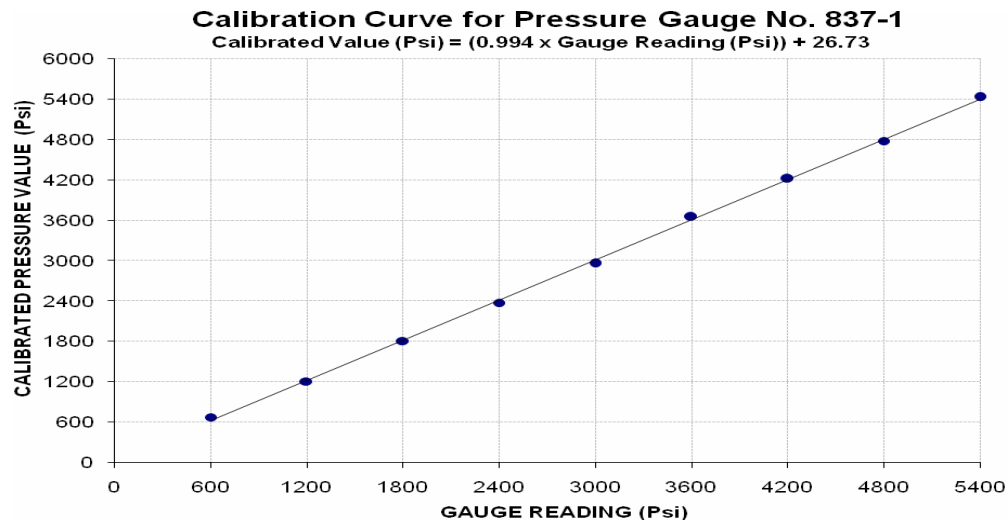
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/37228)** (Page # 2/3)

Reference to your Letter No. RE/ACE/LMP/2021/82, Dated: 29/10/2021 on the subject cited above. One 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 - 5400 (Psi)**

<b>Hydraulic Jack Reading (Psi)</b>	600	1200	1800	2400	3000	3600	4200	4800	5400
<b>Calibrated Load (kg)</b>	9400	16800	25200	33100	41200	50800	58700	66500	75600
<b>Calibrated Pressure (Psi)</b>	675	1207	1810	2378	2960	3649	4217	4777	5431

The Ram Area of Jack = 198 cm<sup>2</sup>



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Dated: 29-10-2021

Date of Test: 03-11-2021

To,  
**Resident Engineer**  
**ACE - ACC - ZAK**  
**Construction of Lodhran - Multan Section (N-5)**

Subject: - **CALIBRATION OF DIAL GAUGES (MARK: TFL/10/37280)** (Page # 1/1)

Reference to your Letter No. RE/ACE/LMP/2021/80, Dated: 29/10/2021 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

**Total Range : Zero - 50 (mm)**  
**Calibrated Range : Zero - 50 (mm)**

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (16K220157)	Dial Gauge No. II (16F083307)	Dial Gauge No. III (16F083345)
400	387	389	393
800	784	785	793
1200	1180	1182	1192
1600	1578	1583	1590
2000	1975	1985	1985
2400	2376	2386	2380
2800	2775	2785	2780
3200	3172	3187	3185
3600	3572	3586	3585
4000	3968	3985	3985
4400	4367	4387	4387
4800	4767	4790	4785
5000	4967	4989	4985

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Ref: CED/TFL/11/37284

Dated: 01-11-2021

Dated of Test: 03-11-2021

To  
Deputy Director (QCD)  
Water & Sanitation Agency  
Faisalabad  
(M/s Subhan RCC Pipe Manufacturing Factory Ghona Road, Near Janazgah 202 R.B Bahiwala Faisalabad)

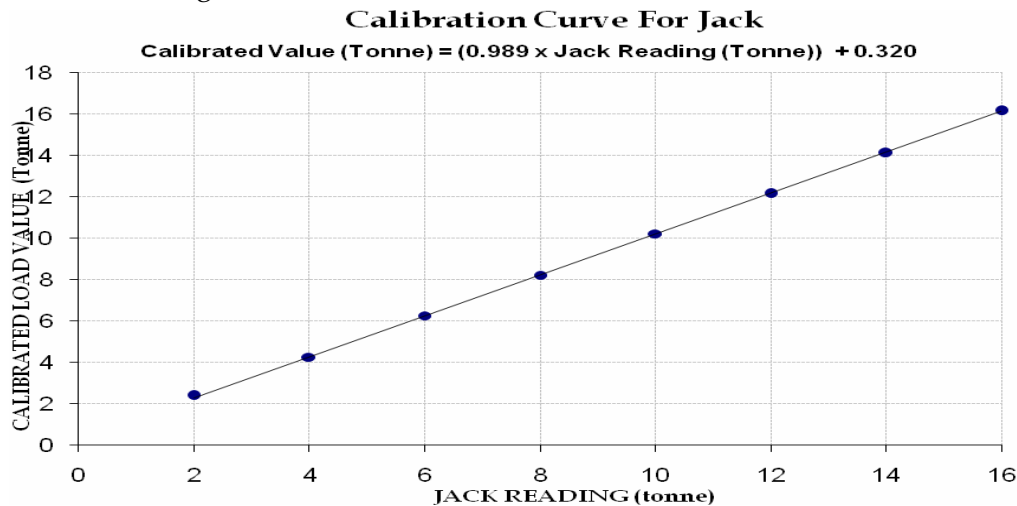
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
(MARK: TFL/10/37284)

Reference to your Letter No. 458-462/DD (QCD)/WASA/2021, Dated: 01/10/2021 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 20 (Tonne)**  
**Calibrated Range : Zero - 18 (Tonne)**

Hydraulic Jack Reading (Tonne)		2	4	6	8	10	12	14	16	18
Calibrated Load	kg	2400	4250	6250	8200	10200	12150	14100	16150	18250
	Tonne	2.40	4.25	6.25	8.20	10.20	12.15	14.10	16.15	18.25

1 Tonne = 1000 kg



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

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Ref: CED/TFL/11/37301

Dated: 02-11-2021

Dated: 03-11-2021

To

**Sr. Project Manager**  
**Izhar Group of Companies**  
**Construction of Nestle Head Office**

**Subject: - MS JACK FOR LOAD TEST**

Reference to your letter no. ICPL/NHO/LAB/06, Dated: 01/11/2021 on the above mentioned subject. One MS Jack as received by us has been tested. The results are as follows.

<b>Sr. No.</b>	<b>Applied Load</b>	<b>Sustained Load Time</b>	<b>Remarks</b>
<b>1</b>	<b>190 (ton)</b>	<b>5 minute</b>	<b>No. failure observed</b>

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

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To,  
 Project Manager  
 DHA – NLD AOP  
 DHA New Residency Apartments, Lahore

Reference # CED/TFL 37302 (Dr. Ali Ahmed)  
 Reference of the request letter # DHA-NLD/21/Oct/0001

Dated: 03-11-2021  
 Dated: 30-10-2021

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

Date of Test 03-11-2021  
 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 <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	0.396	3	0.385	0.11	0.116	4700	5900	94200	89070	118300	111900	1.00	12.5	AFBS
2	0.389	3	0.381	0.11	0.114	4200	5300	84200	81010	106200	102300	1.00	12.5	
3	0.386	3	0.380	0.11	0.114	3900	5100	78200	75690	102200	99000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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