



**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/01/37667

Dated: 06-01-2022

Date of Test: 13-01-2022

To,  
**Resident Engineer**  
**Osmani & Company (Pvt) Ltd**  
**Construction of FIEDMC Management Office at M-3 Industrial City Near**  
**Sahianwala Interchange M-3 Motorway, Faisalabad**

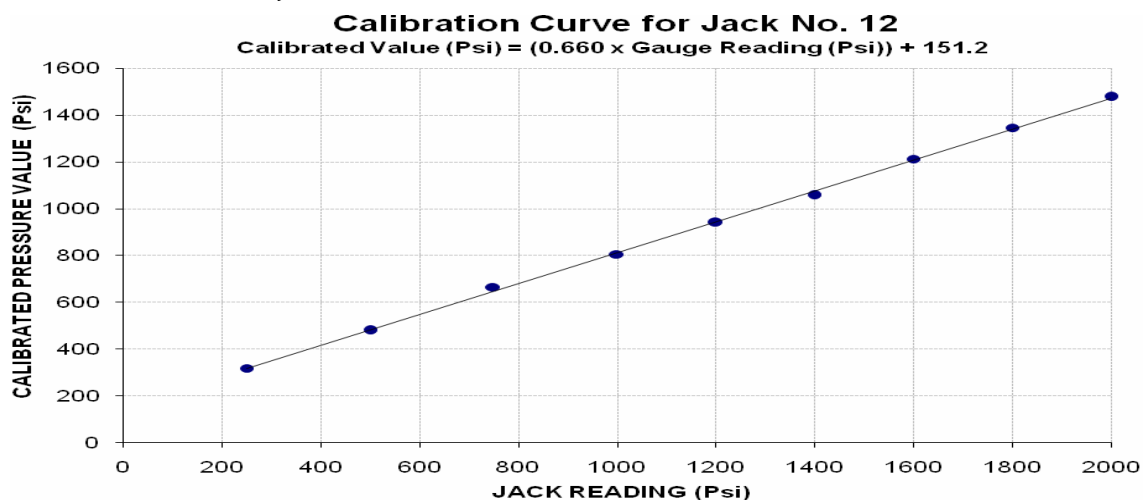
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**  
**(MARK: TFL/01/37667) (Page # 1/2)**

Reference to your Letter No. CRE/M3IC/FIC-048/Lab/1608, Dated: 04/01/2022 on the subject cited above. One Hydraulic Jack No. 12 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 - 2000 (Psi)**

Hydraulic Jack Reading (Psi)	250	500	750	1000	1200	1400	1600	1800	2000
Calibrated Load (kg)	37600	56800	78933	95467	111467	125467	143733	159733	175333
Calibrated Pressure (Psi)	317	479	665	804	939	1057	1211	1346	1477

The Ram Area of Jack = 261.69 in<sup>2</sup>



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

Note:

- 1- You can See your reports On Internet in the following web site  
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Ref: CED/TFL/01/37667

Dated: 06-01-2022

Date of Test: 13-01-2022

To,

**Resident Engineer**

**Osmani & Company (Pvt) Ltd**

**Construction of FIEDMC Management Office at M-3 Industrial City Near Sahianwala Interchange M-3 Motorway, Faisalabad**

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

Reference to your Letter No. CRE/M3IC/FIC-048/Lab/1608, Dated: 04/01/2022 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 - 30 (mm)**

<b>Standard Reading</b>	<b>Dial Gauge Readings</b>		
	<b>Dial Gauge No. I (16F220157)</b>	<b>Dial Gauge No. II (16F083345)</b>	<b>Dial Gauge No. III (16F083307)</b>
<b>200</b>	<b>196</b>	<b>198</b>	<b>198</b>
<b>400</b>	<b>395</b>	<b>398</b>	<b>397</b>
<b>600</b>	<b>596</b>	<b>596</b>	<b>598</b>
<b>800</b>	<b>793</b>	<b>794</b>	<b>797</b>
<b>1000</b>	<b>991</b>	<b>997</b>	<b>997</b>
<b>1200</b>	<b>1190</b>	<b>1194</b>	<b>1195</b>
<b>1400</b>	<b>1390</b>	<b>1392</b>	<b>1394</b>
<b>1600</b>	<b>1588</b>	<b>1591</b>	<b>1584</b>
<b>1800</b>	<b>1791</b>	<b>1794</b>	<b>1792</b>
<b>2000</b>	<b>1990</b>	<b>1993</b>	<b>1994</b>
<b>2200</b>	<b>2191</b>	<b>2194</b>	<b>2192</b>
<b>2400</b>	<b>2389</b>	<b>2392</b>	<b>2391</b>
<b>2600</b>	<b>2591</b>	<b>2591</b>	<b>2590</b>
<b>2800</b>	<b>2789</b>	<b>2790</b>	<b>2790</b>
<b>3000</b>	<b>2990</b>	<b>2991</b>	<b>2990</b>

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

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**University of Engineering and Technology Lahore, 54890**  
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Ref: CED/TFL/01/37687

Dated: 11-01-2022

Dated of Test: 13-01-2022

To  
Deputy Director  
Punjab Housing & Town Planning  
Agency, Sub Region Jhang  
(Construction of Roads Streets, Sewer Line and Waters Supply Lines in Commercial  
Centre B - Block Satellite Town Scheme Jhang (M/s Zahid Pervaiz Govt, Contractor)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]

Reference to your letter No. 12, dated 04.01.2022 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.29	16.65	12.63	2.01	11700	18400	3360	5284

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Director  
 New Era Group  
 Construction of MCB Building at M.A Jinnah Road, Okara

Reference # CED/TFL **37693** (Dr. Usman Akmal)

Dated: 12-01-2022

Reference of the request letter # NEG/HI/MCB/OKARA/22/002

Dated: 12-01-2022

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

Date of Test 13-01-2022

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.378	3/8	0.376	0.11	0.111	3400	5100	68200	67390	102200	101100	1.50	18.8	Ittehad Steel
2	0.377	3/8	0.376	0.11	0.111	3400	5100	68200	67580	102200	101400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Building Sub Division No. 1  
 Rahim Yar Khan  
 (Establishment of Govt. Associates College for Boys at Manthar Rahim Yar Khan)

Reference # CED/TFL **37695** (Dr. Usman Akmal)  
 Reference of the request letter # 3054/RYK

Dated: 12-01-2022  
 Dated: 01-01-2022

**Tension Test Report** (Page -1/2)

Date of Test 13-01-2022  
 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	0.373	3/8	0.374	0.11	0.110	3600	5100	72200	72390	102200	102600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one samples 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.**

Note:

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Sub Divisional Officer  
 Building Sub Division No. 1  
 Rahim Yar Khan  
 (Construction of Residence for Judicial Officers at District Rahim Yar Khan)

Reference # CED/TFL **37695** (Dr. Usman Akmal)  
 Reference of the request letter # 3052/RYK

Dated: 12-01-2022  
 Dated: 01-01-2022

**Tension Test Report** (Page -2/2)

Date of Test 13-01-2022  
 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	0.372	3/8	0.373	0.11	0.109	3600	5000	72200	72550	100200	100800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Highway Sub Division  
 Sheikhpura  
 (Re-Decking of Bridge over Gogera Branch on Sheikhpura Sargodha Road Near Farooqabad  
 District Sheikhpura)  
 Reference # CED/TFL **37697** (Dr. Usman Akmal) Dated: 12-01-2022  
 Reference of the request letter # 545 Dated: 01-12-2021

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

Date of Test 13-01-2022  
 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	0.365	3	0.370	0.11	0.107	3600	5000	72200	73890	100200	102700	1.30	16.3	Pak Steel
2	0.365	3	0.369	0.11	0.107	3600	4900	72200	74030	98200	100800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Executive Engineer  
 6<sup>th</sup> Building Division  
 Lahore

- (1. Up-Gradation of 09 Civil Veterinary Hospital at Divisional Level in Punjab One at (Harbanspura) Lahore
- (2. Construction of Maintenance / Extension of Government School Buildings in UC Nos. 109, 111, 113, Lahore
- (3. Construction of 12- Nos Additional Classrooms, Indoor Auditorium, Examination Hall, 3 Science Lans, 1- Computer Lab, 1 Home Economic lab, Early Childhood Block, 1-Waiting Room for Parents and Library in Govt. Girls High School Gander Chowk Green Town, Lahore)

Reference # CED/TFL **37698** (Dr. Usman Akmal)

Dated: 12-01-2022

Reference of the request letter # 1818

Dated: 10-01-2022

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

Date of Test 13-01-2022

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.384	3/8	0.379	0.11	0.113	3900	5000	78200	76250	100200	97800	1.20	15.0	
2	0.382	3/8	0.378	0.11	0.112	4000	5000	80200	78490	100200	98200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Orbit Housing  
 The Spring Apartment Homes

Reference # CED/TFL **37701** (Dr. Waseem Abbass)  
 Reference of the request letter # Nil

Dated: 13-01-2022  
 Dated: 13-01-2022

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

Date of Test 13-01-2022  
 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	0.360	3	0.367	0.11	0.106	4200	5400	84200	87460	108200	112500	0.70	8.8	
2	0.366	3	0.370	0.11	0.108	3800	4800	76200	77770	96200	98300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Project Managers  
Lahore  
(Allied Bank Limited Plot No. 14 Block A3 Gulberg III Lahore)

Reference # CED/TFL **37702** (Dr. Waseem Abbass)  
Reference of the request letter # Nil

Dated: 13-01-2022  
Dated: 13-01-2022

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

Date of Test 13-01-2022  
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	0.386	3	0.380	0.11	0.113	3700	4900	74200	71870	98200	95200	1.10	13.8	
2	0.380	3	0.377	0.11	0.112	3700	4900	74200	72930	98200	96600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M. Anas (Officer Civil)

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

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