



**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/01/34572  
2020

Dated: 29-01-

Dated of Test: 31-01-2020

To  
M/S ConDrill Pvt Ltd  
Lahore

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/34572)

Reference to your Letter No. Nil, dated: 29/01/2020 on the subject cited above. One Hydraulic as received by us has been calibrated. The results are tabulated as under:

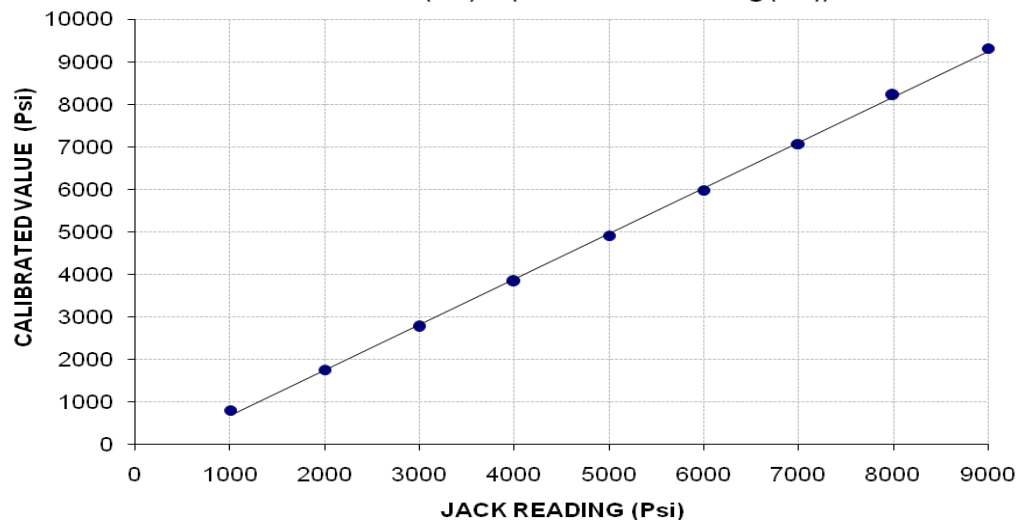
**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 9000 (Psi)**

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000	8000	9000
Calibrated Load (kg)	7500	16500	26000	36000	46100	56100	66300	77100	87400
Calibrated Pressure (Psi)	799.04	1757.90	2770.02	3835.42	4911.46	5976.86	7063.56	8214.18	9311.54

The Ram Area of Jack = 133.5 cm<sup>2</sup>

**Calibration Curve For Jack**

**Calibrated Value (Psi) = (1.069 x Jack Reading (Psi)) - 385.6**



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

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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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Ref: CED/TFL/01/34575

Dated: 29-01-2020

Dated of Test: 31-01-2020

**To**  
**Director Marketing**  
**NPC Industries**  
**Badami Bagh, Lahore**

**Subject: - TEST RESULT REPORT FOR DUCTILE IRON MANHOLE COVER FOR BEARING LOAD TEST**

Reference to your letter no. Nil dated: 29/01/2020 on the above mentioned subject. One Ductile Iron Manhole Cover for bearing load test as received by us has been tested as requested by the client and results are given below.

**Diameter of sample : 68.10 cm**

**Diameter of loading plate : 30.5 cm (12 inch)**

**Loading pattern : Uniformly distributed load**

**Design/Applied Load : 400 kN (40 Ton)**

**Remarks : The Manhole Cover is Safe at 40 ton applied load**

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

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To,  
 Sub Divisional Officer  
 Buildings Sub Division Jhang  
 (Construction of 2 Additional Class Rooms in Government Girls Primary School Chak Kachian  
 Tehsil & District Jhang)  
 Reference # CED/TFL **34583** (Dr. Waseem Abbass)      Dated: 30-01-2020  
 Reference of the request letter # 567      Dated: 20-12-2019

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

Date of Test      31-01-2020  
 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	0.372	3/8	0.373	0.11	0.109	2700	4500	54100	54460	90200	90800	1.10	13.8	
2	0.374	3/8	0.374	0.11	0.110	2900	4600	58200	58160	92200	92300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
 P.M (Wan Bhachran/Chashma)  
 PAEC-WASO  
 (Faizan Steel)  
 Reference # CED/TFL **34586** (Dr. Qasim Khan)  
 Reference of the request letter # PD(CH)/WASO/PDS/89/16

Dated: 31-01-2020

Dated: 30-01-2020

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

Date of Test 31-01-2020  
 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	0.406	3	0.390	0.11	0.119	4700	5600	94200	86730	112300	103400	1.00	12.5	
3	0.410	3	0.392	0.11	0.121	4900	5600	98200	89530	112300	102400	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														

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