



**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/02/908  
2022

Dated: 18-02-

Date of Calibration: 28-02-2022

**To**  
**Resident Engineer (Structure)**  
**NESPAK**  
**Construction of Flyover and At-Grade Improvement at Shahkaam Chowk Lahore**

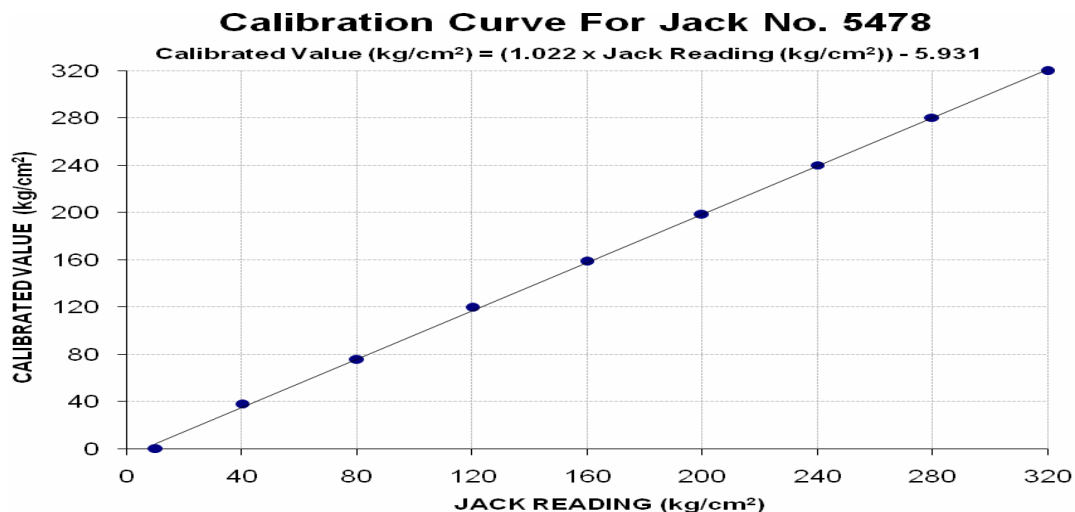
**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/908) (Page – 1/2)**

Reference to your Letter No. 4047/13/05/AZL/62, dated: 12/02/2022 on the subject cited above. One Hydraulic Jack (Jack No. 5478, Pump No. 965) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 1000 (kg/cm<sup>2</sup>)**  
**Calibrated Range : Zero - 320 (kg/cm<sup>2</sup>)**

Hydraulic Jack Reading (kg/cm <sup>2</sup> )	10	40	80	120	160	200	240	280	320
Calibrated Load (kg)	0	22800	45600	72200	95800	119800	145200	169400	193200
Calibrated Pressure (kg/cm <sup>2</sup> )	0	37.72	75.45	119.46	158.50	198.21	240.24	280.28	319.66

The Ram Area of Jack = 602.4 cm<sup>2</sup>



**I/C Testing Laboratories**  
**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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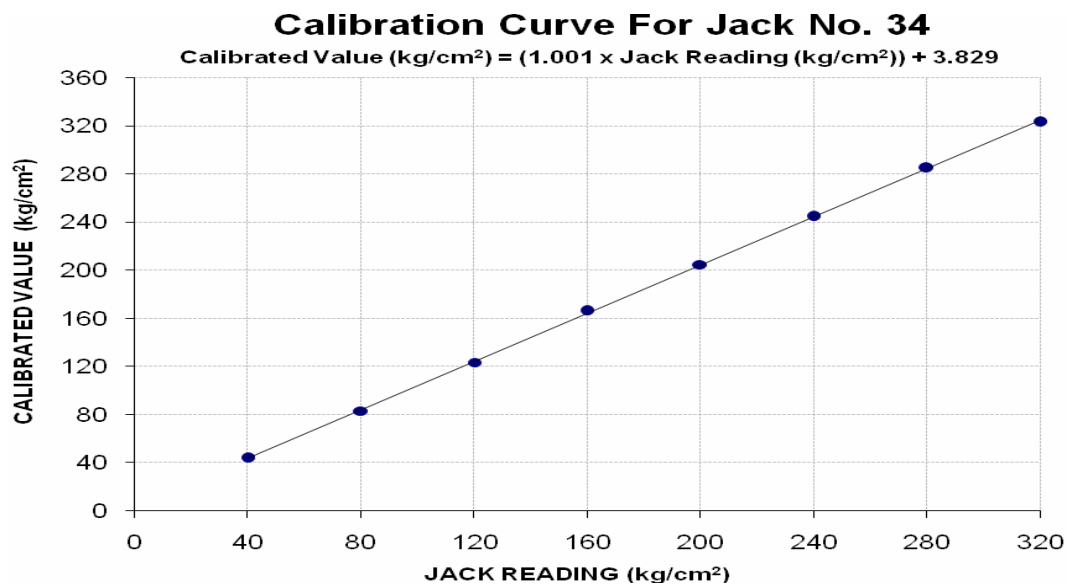
**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/908) (Page – 2/2)**

Reference to your Letter No. 4047/13/05/AZL/62, dated: 12/02/2022 on the subject cited above. One Hydraulic Jack (Jack No. 34, Pump No. 975) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 1000 (kg/cm<sup>2</sup>)**  
**Calibrated Range : Zero - 320 (kg/cm<sup>2</sup>)**

<b>Hydraulic Jack Reading (kg/cm<sup>2</sup>)</b>	<b>40</b>	<b>80</b>	<b>120</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>
<b>Calibrated Load (kg)</b>	<b>26400</b>	<b>50200</b>	<b>74600</b>	<b>100400</b>	<b>123600</b>	<b>147800</b>	<b>172200</b>	<b>195200</b>
<b>Calibrated Pressure (kg/cm<sup>2</sup>)</b>	<b>43.68</b>	<b>83.06</b>	<b>123.43</b>	<b>166.12</b>	<b>204.50</b>	<b>244.54</b>	<b>284.91</b>	<b>322.96</b>

The Ram Area of Jack = 602.4 cm<sup>2</sup>



**I/C Testing Laboratoires**  
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To,  
M/S 7 Star Engineering Kinetics (Pvt) Ltd  
Lahore

Reference # CED/TFL 957 (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 25-02-2022

Dated: 25-02-2022

**Tension Test Report** (Page – 1/1)

Date of Test 28;-02-2022  
Gauge length 2 inches  
Description Square Bar Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Square Bar	9.30x8.85	82.31	7800	10600	930	1263	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>										
<b>Bend Test</b>										

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