



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/08/3719

Dated: 09-08-2023

Dated of Test: 11-08-2023

To

Engineer's Representative
NESPAK

Construction of Additional Block at Pakistan Engineering Council (PEC)
Headquarters, G-5/2, Islamabad

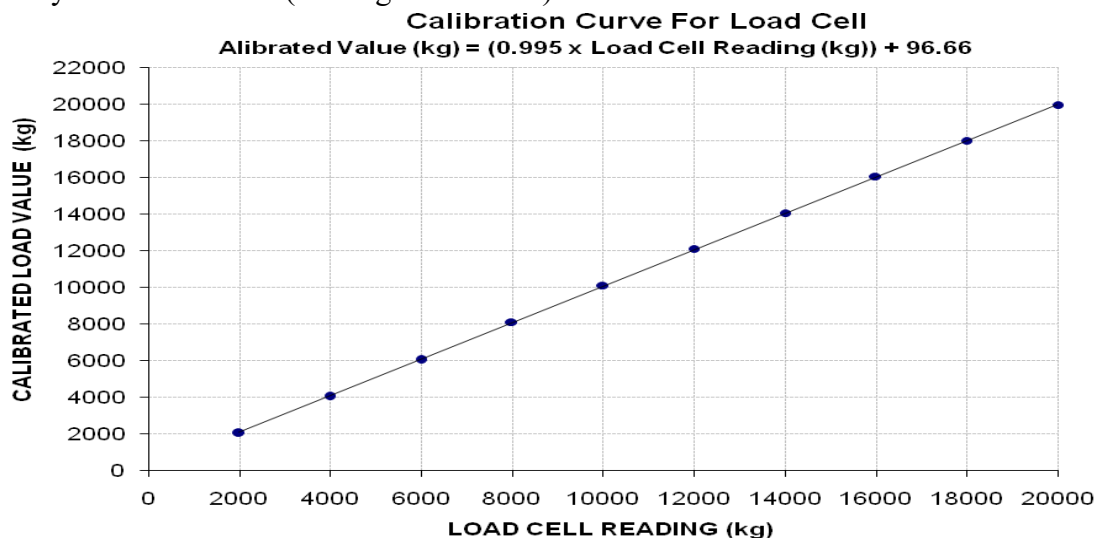
Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/08/3719) (Page -1/2)

Reference to your Letter No. 4125/321/NS/05/662, Dated: 14/07/2023 on the subject cited above. One Load Cell as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50000 (kg)
Calibrated Range : Zero - 20000 (kg)

Load Cell Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000
Calibrated Load (kg)	2050	4050	6050	8100	10100	12100	14050	16050	18000	19950

Witness by Mudassar Zafar (Sr. Engr. NESPAK)



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
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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/08/3719

Dated: 09-08-2023

Dated of Test: 11-08-2023

To

Engineer's Representative
NESPAK

Construction of Additional Block at Pakistan Engineering Council (PEC)
Headquarters, G-5/2, Islamabad

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/3719)** (Page # 2/2)

Reference to your Letter No. 4125/321/NS/05/662, Dated: 14/07/2023 on the subject cited above. One Hydraulic Jack No. AES 50 with Pressure Gauge No. AES 50 as received by us has been calibrated. The results are tabulated as under:

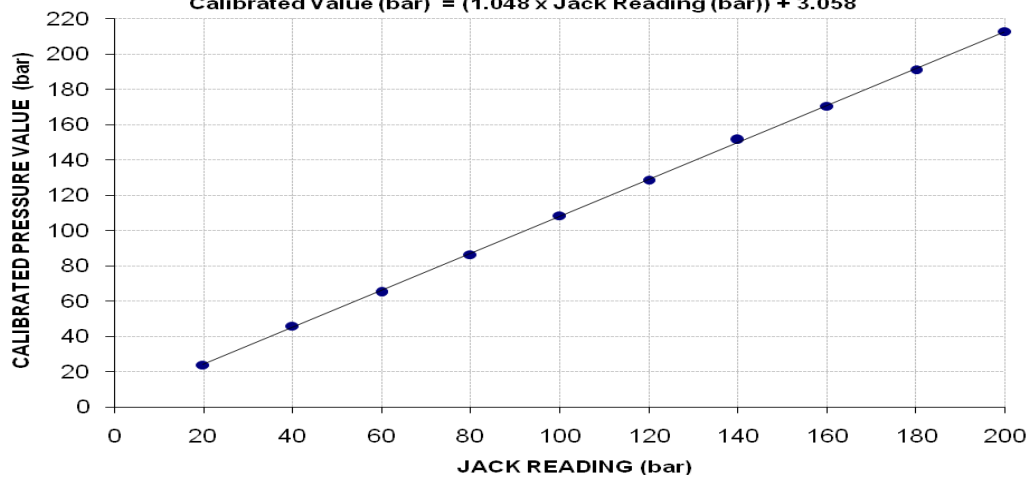
Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 200 (bar)

Jack Reading (bar)	20	40	60	80	100	120	140	160	180	200
Calibrated Load (kg)	2000	3850	5450	7250	9100	10800	12700	14300	16050	17850
Calibrated Pressure (bar)	23.84	45.88	64.95	86.40	108.45	128.71	151.35	170.42	191.28	212.73

The Ram Area of Jack = 82.29 cm² Witness by Mudassar Zafar (Sr. Engr. NESPAK)

Calibration Curve for Hydraulic Jack No. AES 50

$$\text{Calibrated Value (bar)} = (1.048 \times \text{Jack Reading (bar)}) + 3.058$$



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
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample / Signed Samples



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

To,
 XEN
 GE (Air) Lahore
 "Construction of P-1 Annexy at PAF Base Lahore."

Reference # CED/TFL **3734** (Dr. Ali Ahmed)
 Reference of the request letter # 6000/15/E-2

Dated: 11-08-2023
 Dated: 08-08-2023

Tension Test Report (Page -1/1)

Date of Test 11-08-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.373	3/8	0.374	0.11	0.110	3600	4900	72200	72420	98200	98600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples