



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/10/4150

Dated: 01-11-2023

Dated: 02-11-2023

To

M/A S.A.A. Engineering Works
Lahore

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4150)** (Page -1/2)

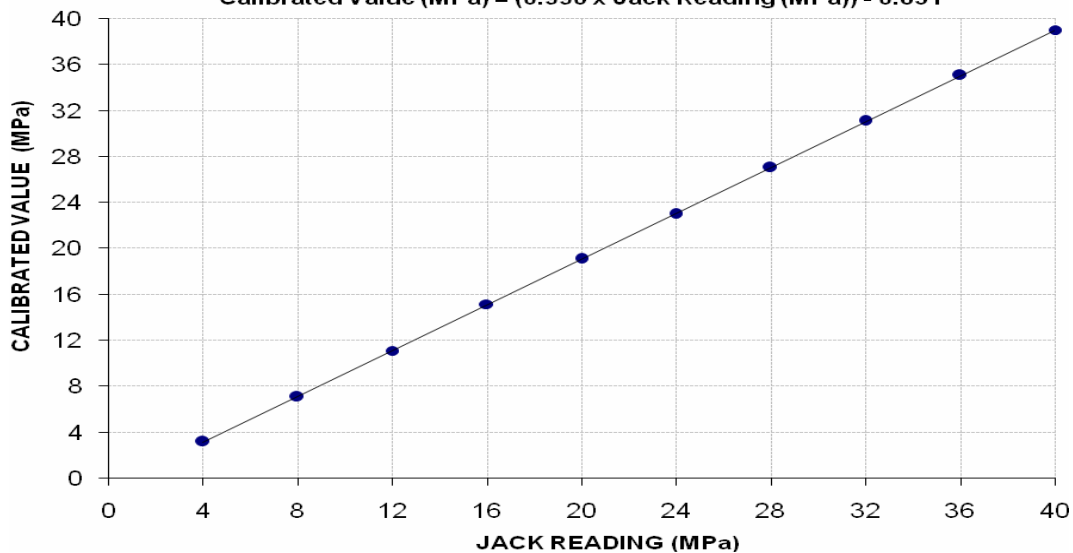
Reference to your Letter No. Nil, dated: 01/11/2023 on the subject cited above. One Hydraulic Jack Y.C.Q 250 (Jack No. 1, Gauge No. CL 1.0) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 70 (MPa)
Calibrated Range : Zero - 40 (MPa)

| | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Hydraulic Jack Reading (MPa) | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| Calibrated Load (kg) | 15000 | 33200 | 52000 | 71000 | 89400 | 107600 | 126600 | 145600 | 164200 | 182600 |
| Calibrated Pressure (Mpa) | 3 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | 39 |

The Ram Area of Jack = 459 cm^2

Calibration Curve For Jack No. 1 (Gauge # CL 1.0)
Calibrated Value (MPa) = (0.996 x Jack Reading (MPa)) - 0.831



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



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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4150) (Page -2/2)

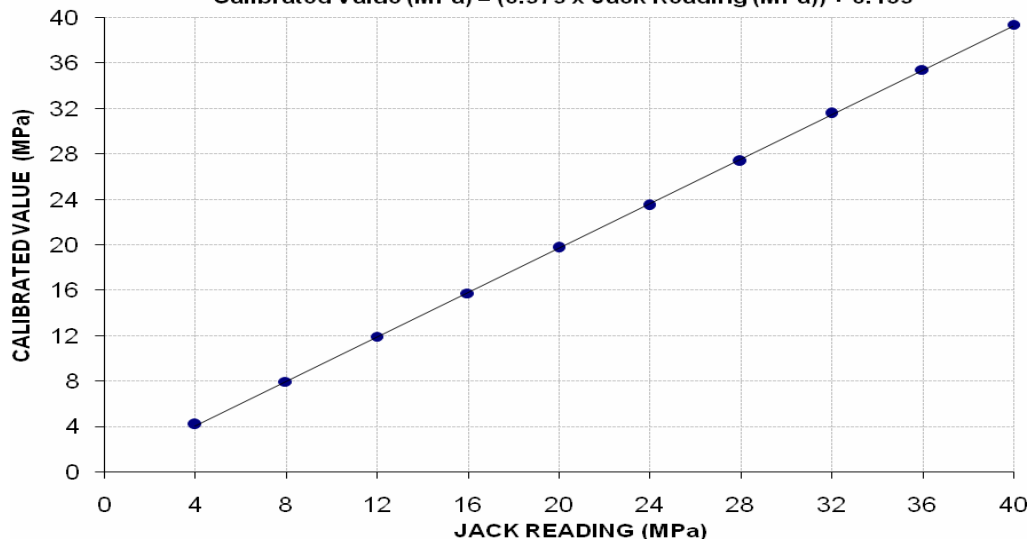
Reference to your Letter No. Nil, dated: 01/11/2023 on the subject cited above. One Hydraulic Jack Y.C.Q 250 (Jack No. 2, Gauge No. 1) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 70 (MPa)
Calibrated Range : Zero - 40 (MPa)

| | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Hydraulic Jack Reading (MPa) | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| Calibrated Load (kg) | 19600 | 37200 | 55800 | 73600 | 92400 | 110000 | 128200 | 147800 | 165800 | 184400 |
| Calibrated Pressure (Mpa) | 4 | 8 | 12 | 16 | 20 | 24 | 27 | 32 | 35 | 39 |

The Ram Area of Jack = 459 cm²

Calibration Curve For Jack No. 2 (Gauge # 1)
Calibrated Value (MPa) = (0.979 x Jack Reading (MPa)) + 0.139



I/C Testing Laboratories
UET Lahore, Pakistan.

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