



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/07/3584

Dated: 12-07-2023

Dated: 13-07-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCG)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR JV
Diamer Basha Dam Project.

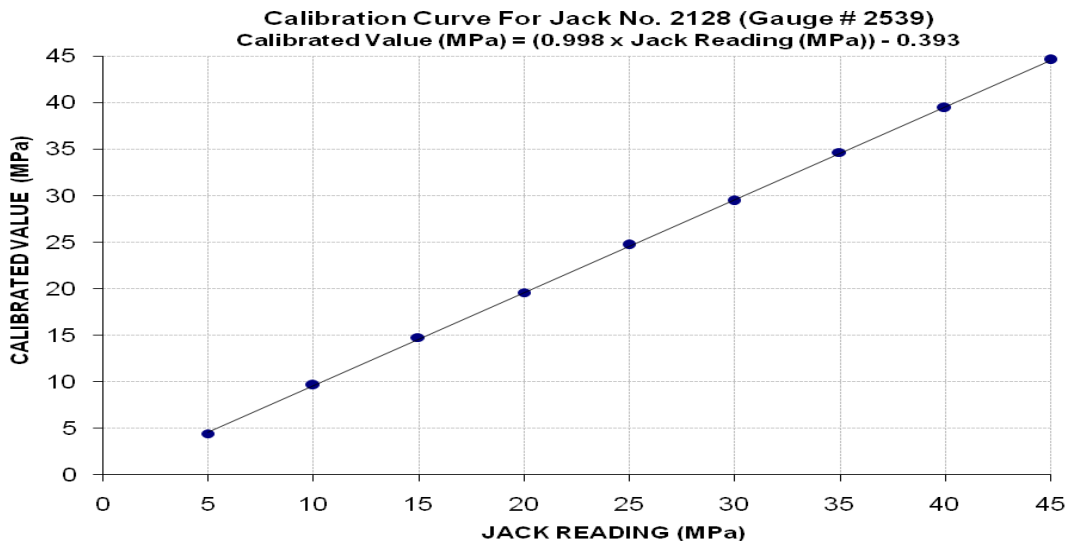
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3584)** (Page -1/3)

Reference to your Letter No. DBCG/Lab/PF JV/2023/036, dated: 11/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2128, Gauge No. 2539) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	17000	37000	56800	75200	95000	113200	133200	151500	171400
Calibrated Pressure (Mpa)	4.42	9.62	14.78	19.56	24.71	29.45	34.65	39.41	44.59

The Ram Area of Jack = 377 cm²



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



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/07/3584

Dated: 12-07-2023

Dated: 13-07-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR JV
Diamer Basha Dam Project.

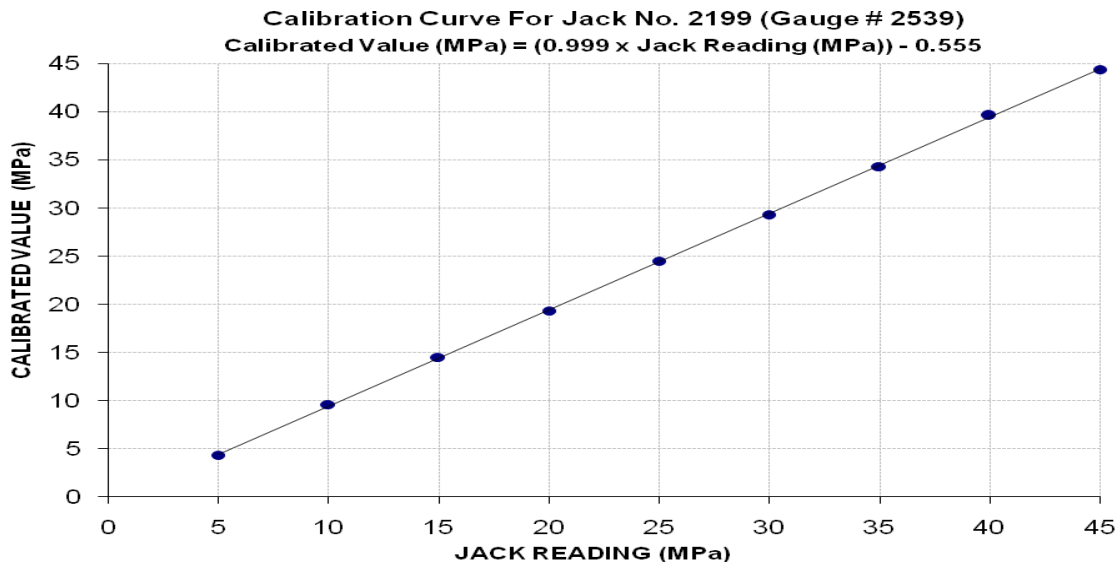
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3584)** (Page -2/3)

Reference to your Letter No. DBCG/Lab/PF JV/2023/036, dated: 11/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2199, Gauge No. 2539) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2250	5000	7550	10050	12750	15250	17850	20600	23100
Calibrated Pressure (Mpa)	4.32	9.61	14.50	19.31	24.49	29.30	34.29	39.57	44.38

The Ram Area of Jack = 51.05 cm²



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/07/3584

Dated: 12-07-2023

Dated: 13-07-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR JV
Diamer Basha Dam Project.

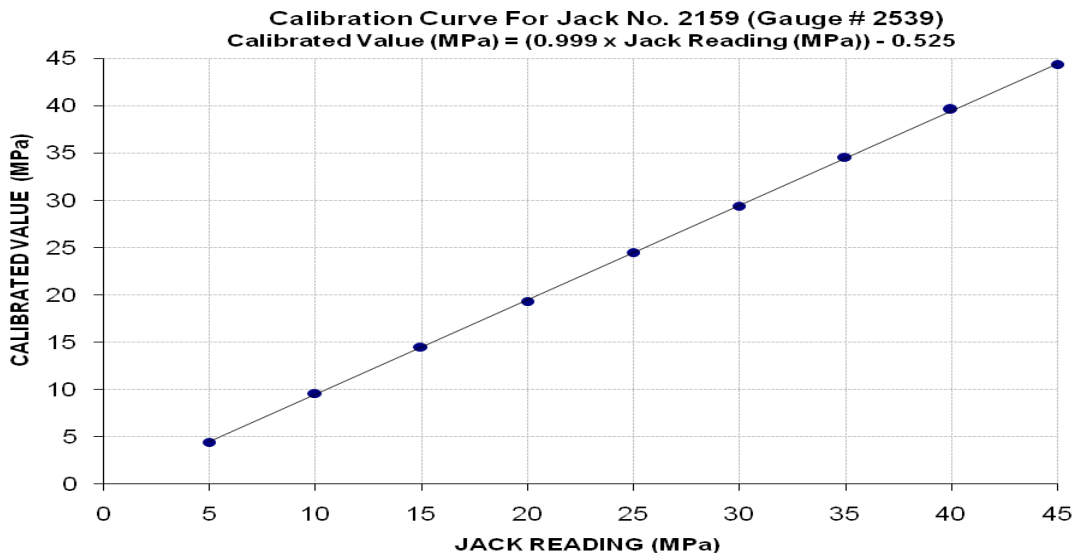
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3584)** (Page -3/3)

Reference to your Letter No. DBCG/Lab/PF JV/2023/036, dated: 11/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2159, Gauge No. 2539) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2300	5000	7550	10050	12750	15300	18000	20600	23100
Calibrated Pressure (Mpa)	4.42	9.61	14.50	19.31	24.49	29.39	34.58	39.57	44.38

The Ram Area of Jack = 51.05 cm²



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



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/07/3589, 3590

Dated: 13-07-2023

Date of Calibration: 13-07-2023

To

General Manager Infrastructure.
Bahria Golf City
Bahria Town Pvt Ltd, Islamabad

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3589)

Reference to your Letter No. Nil, dated: 08/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. YDC-100, Gauge No. EN-837-1) as received by us has been calibrated. The results are tabulated as under:

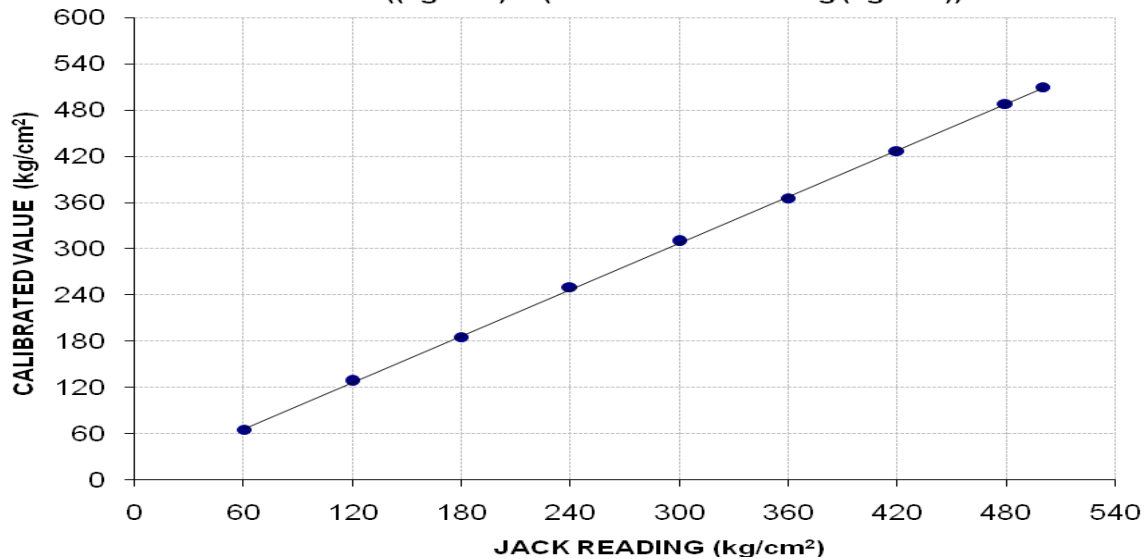
Total Range : Zero - 700 (kg/cm²)
Calibrated Range : Zero - 500 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	60	120	180	240	300	360	420	480	500
Calibrated Load (kg)	17600	34800	50300	67800	84000	99200	115800	132400	138200
Calibrated Pressure (kg/cm ²)	64.88	128.29	185.43	249.94	309.67	365.70	426.90	488.09	509.47

The Ram Area of Jack = 271.26 cm²

Calibration Curve For Jack No. YDC-100

Calibrated Value ((kg/cm²) = (1.004 x Jack Reading (kg/cm²)) + 4.762



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