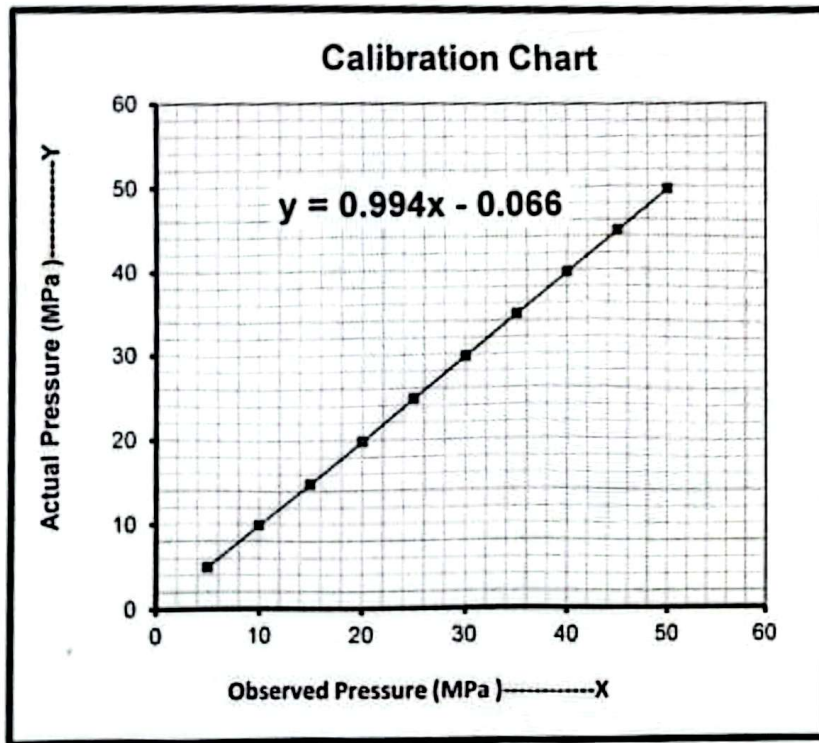




Calibration of Pressure Gauge (ASTM E4-16)

BRTC No.: 1103-61145/CE/25-26
 REF: Letter
 Sent By : Md. Abul Kalam Azad, Kia Enterprise, Badolgachi, Naogaon
 Project: Load Testing Works
 Equipment: Pressure Gauge; Gauge ID: 2409120 (MC)
 Capacity: 60 MPa
 Date of Calibration: 14.09.2025

Date: 13.09.2025
 Date: 13.09.2025



Observed Pressure	Actual Pressure	± Error
MPa	MPa	%
5	4.9	2.22
10	9.9	0.86
15	14.8	1.09
20	19.8	0.95
25	24.8	0.87
30	29.8	0.81
35	34.7	0.77
40	39.7	0.74
45	44.7	0.72
50	49.7	0.70
-	-	-
-	-	-
-	-	-
-	-	-

Note: Pressure Gauge was received in unsealed condition.
 1 Kg/cm² = 14.223 psi

Countersigned by :

Prof. Dr. Moazzem Hossain
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh



Calibrated by :

Dr. Shohel Rana
 Professor
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh



17 September 2025

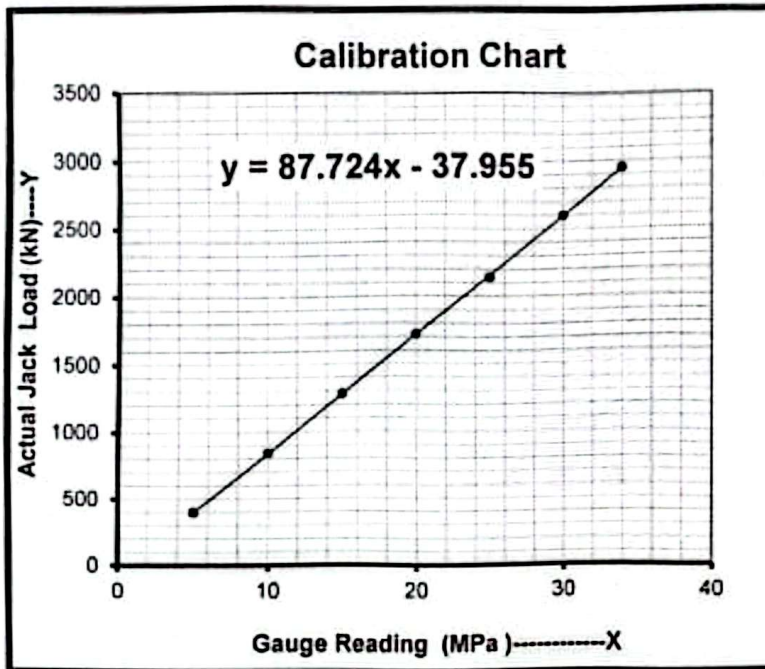
BUETCE 0578800

BRTC BUET



Calibration of Hydraulic Jack

BRTC No.: 1103-61145/CE/25-26 **Date:** 13.09.2025
Reference : Letter **Date:** 13.09.2025
Sent By: Md. Abul Kalam Azad, Kia Enterprise, Badolgachi, Naogaon
Project: Load Testing Works
Machine: Hydraulic Jack ID: L804019 (Capacity: 5000kN) **Pump:** Motorized
Jack Information: Piston Dia: 300mm; Body Dia: 460mm; Body Height: 420mm **Pump ID:** 803189
Pressure Gauge: Range: 0-60MPa **Gauge ID:** 2409120(MC)
Calibration Device: Load Column, ELE 1052-10-6096 (Capacity 3000kN)
Date of Calibration: 14.09.2025



Gauge Reading	Actual Jack Load	Calibrated Jack Load
MPa	(kN)	(kN)
5.0	398.2	400.7
10.0	844.1	839.3
15.0	1279.9	1277.9
20.0	1718.0	1716.5
25.0	2142.5	2155.1
30.0	2596.4	2593.8
34.0	2948.8	2944.7
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Note: 1 Ton = 9.965714 kN

Warning: Calibration is valid only when the above mentioned Jack and Pressure Gauge pair are used together as they are calibrated. Re-calibration shall be needed if any of the above Jack or Pressure Gauge is changed/replaced or repaired.

Note: The Jack sustained a pressure of 52 MPa, and is expected to apply a load of 4520 kN (based on Calibration Eqn.)

Countersigned by :

Prof. Dr. Moazzem Hossain
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

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Calibrated by :

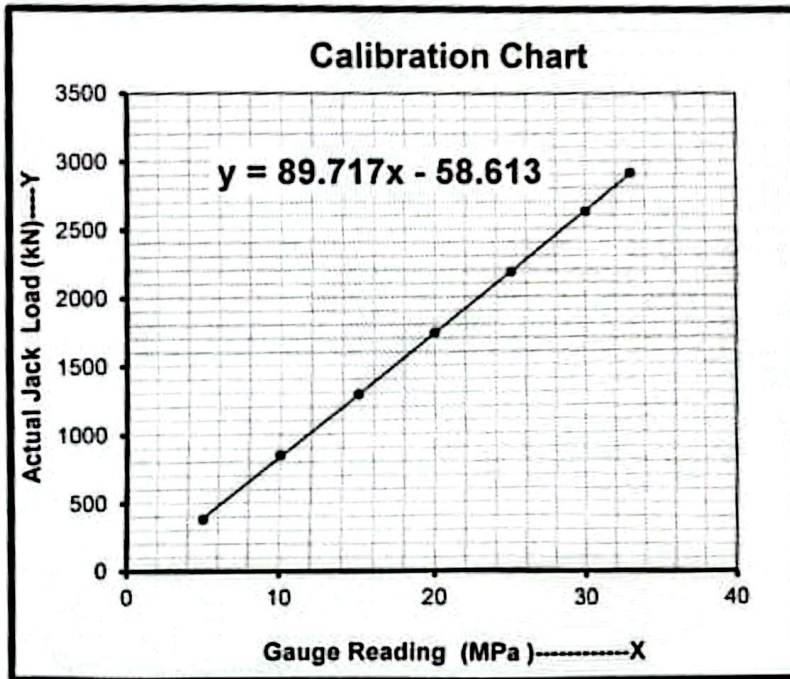
17 September 2025

Dr. Shohel Rana
 Professor
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh
 BUETCE 0578799



Calibration of Hydraulic Jack

BRTC No.: 1103-61145/CE/25-26 **Date:** 13.09.2025
Reference : Letter **Date:** 13.09.2025
Sent By: Md. Abul Kalam Azad, Kia Enterprise, Badolgachi, Naogaon
Project: Load Testing Works
Machine: Hydraulic Jack ID: L804022 (Capacity: 5000kN) **Pump:** Motorized
Jack Information: Piston Dia: 300mm; Body Dia: 460mm; Body Height: 420mm **Pump ID:** 803180
Pressure Gauge: Range: 0-60MPa **Gauge ID:** K-01(18.12.213)(MC)
Calibration Device: Load Column; ELE 1052-10-6096 (Capacity 3000kN)
Date of Calibration: 14.09.2025



Gauge Reading	Actual Jack Load	Calibrated Jack Load
MPa	(kN)	(kN)
5.0	381.3	390.0
10.0	848.6	838.6
15.0	1290.1	1287.1
20.0	1737.1	1735.7
25.0	2179.7	2184.3
30.0	2625.6	2632.9
33.0	2908.3	2902.0
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Note: 1 Ton = 9.965714 kN

Warning: Calibration is valid only when the above mentioned Jack and Pressure Gauge pair are used together as they are calibrated. Re-calibration shall be needed if any of the above Jack or Pressure Gauge is changed/replaced or repaired.

Note: The Jack sustained a pressure of 51 MPa, and is expected to apply a load of 4520 kN (based on Calibration Eqn)

Countersigned by :

Prof. Dr. Moazzem Hossain
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh



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Calibrated by :

17 September 2025

Dr. Shohel Rana
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh
BUETCE 0578802

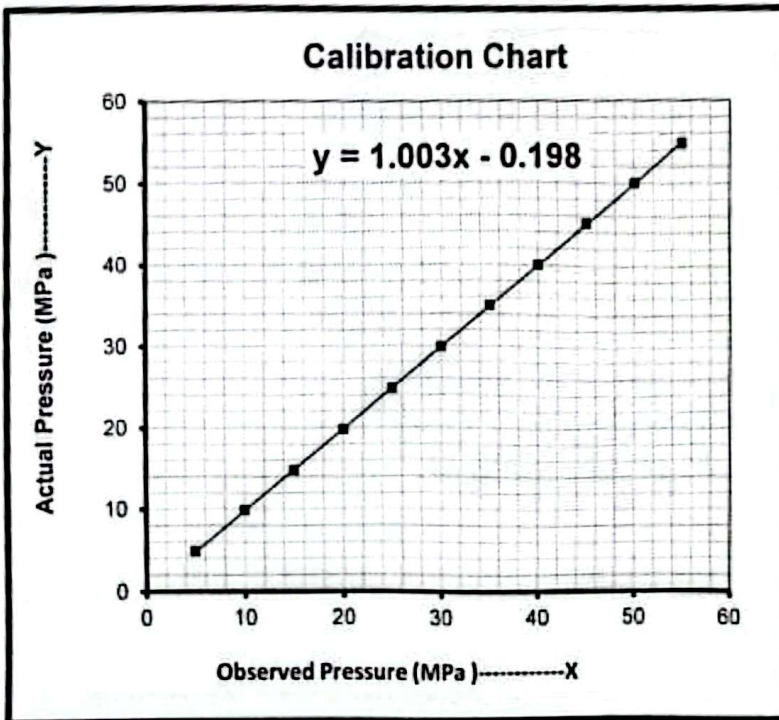




Calibration of Pressure Gauge (ASTM E4-16)

BRTC No.: 1103-61145/CE/25-26
 REF: Letter
 Sent By : Md. Abul Kalam Azad, Kia Enterprise, Badolgachi, Nargoon
 Project: Load Testing Works
 Equipment: Pressure Gauge; Gauge ID: K-01(18.12.213) (MC)
 Capacity: 60 MPa
 Date of Calibration: 14.09.2025

Date: 13.09.2025
 Date: 13.09.2025



Observed Pressure	Actual Pressure	± Error
MPa	MPa	%
5	4.9	2.22
10	9.9	1.37
15	14.8	1.43
20	19.8	0.95
25	24.8	0.87
30	29.9	0.47
35	35.0	0.05
40	40.0	-0.01
45	45.1	-0.17
50	50.1	-0.10
55	54.8	0.32
-	-	-
-	-	-
-	-	-

Note: Pressure Gauge was received in unsealed condition.
 1 Kg/cm² = 14.223 psi

Countersigned by :

Prof. Dr. Moazzem Hossain
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh



4W7F5QD2f

Calibrated by :

Dr. Shohel Rana
 Professor
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh



17 September 2025

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