



CERTIFICATE OF CALIBRATION

ULR-CC282825000014333F

FT/RD/CT/53

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Certificate Number	CS/25/LB/MP/529-01	Date of Issue:	07.10.2025
Customer Name & Address	M/s. Chavanke Engineering Private Limited No :110/2, Gangamai Industrial Complex, MIDC, Ambad, Nashik Maharashtra-422 010 India.		
Customer Reference	DC No.: 835 dt.: 29.09.2025		
Environmental Conditions	Temperature : (23±1.5)°C	Humidity : (50±20)%RH	
Calibration Method	As Per Work Instruction Number:	WI/RD/PR/01	
Calibrated By	S.Anusuya	Calibrated at	Lab

DETAILS OF THE UNIT UNDER CALIBRATION

Description	Digital Pressure Gauge
Serial Number	NAIM2210069
Tag Number	P-18
Make	Adarsh
Model No.	EN 501
Range	0 to 700 bar
Resolution	0.01 bar
Accuracy	± 0.05 %F.S
Condition of UUC Received	Satisfactory
Date of Receipt	04.10.2025
Date of Calibration	07.10.2025
Next Calibration Due	07.10.2026

DETAILS OF THE STANDARD INSTRUMENT USED FOR CALIBRATION

Description	Digital Pressure Indicator
Make	GE Druck
ID No./Serial No.	P-51 / 12274356 / 12229558 / 12135977 / 10243352
Traceability	National Standards
Certificate No.	CS/25/LB/MP/211-02
Validity	21.06.2026

Mechanical Calibration-Pressure and Vacuum

Calibration Results

Pressure:

Unit Under Calibration P _{ind} bar	Standard Instrument P _{std} bar				Mean Value MP _{std} bar
	Rising M ₁	Falling M ₂	Rising M ₃	Falling M ₄	
0.00	0.000	0.001	0.001	0.001	0.001
80.00	80.018	80.017	80.018	80.017	80.018
175.00	175.026	175.025	175.026	175.025	175.026
265.00	265.037	265.036	265.037	265.036	265.037
355.00	355.052	355.051	355.052	355.051	355.052
455.00	455.068	455.067	455.068	455.067	455.068
550.00	550.085	550.084	550.085	550.084	550.085
630.00	630.115	630.116	630.115	630.116	630.116
700.00	700.126	700.126	700.127	700.127	700.127





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Unit Under Calibration	Error	Zero Deviation	Repeatability	Hysteresis	Expanded Uncertainty
P_{ind} bar	ΔP bar	f_0 bar	b' bar	h bar	$\pm$ U bar
0.00	-0.001	-	-	-	-
80.00	-0.018	0.001	0.001	0.0010	0.0143
175.00	-0.026	0.001	0.001	0.0010	0.0267
265.00	-0.037	0.001	0.001	0.0010	0.0394
355.00	-0.052	0.001	0.001	0.0010	0.0523
455.00	-0.068	0.001	0.001	0.0010	0.0653
550.00	-0.085	0.001	0.001	0.0010	0.0715
630.00	-0.116	0.001	0.001	0.0010	0.0819
700.00	-0.127	0.001	0.001	0.0000	0.0912

Remarks :

1) $MP_{std} = \sum m_i / 4$;

2) $\Delta p = P_{ind} - MP_{std}$;

3) $f_0 = \max\{|M_{2,0} - M_{1,0}|, |M_{4,0} - M_{3,0}|\}$;

4) $b' = \max\{|(M_{3,j} - M_{3,0}) - (M_{1,j} - M_{1,0})|, |(M_{4,j} - M_{4,0}) - (M_{2,j} - M_{2,0})|\}$;

5) $h = 1/2 \{|(M_{2,j} - M_{1,0}) - (M_{1,j} - M_{1,0})| + |(M_{4,j} - M_{3,0}) - (M_{3,j} - M_{3,0})|\}$;

Where, j - stands for numbers of nominal values of the pressure.

6) As per IS : 3624-1987, SI unit of Pressure is Pascal (Pa). 1 Pascal (Pa) = 10^{-5} bar.

T. Pandi Kumar
Authorised Signatory

T. Pandi kumar
Technical Manager

