



CERTIFICATE OF CALIBRATION

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ULR No.	CC282826000007958F	Date of Issue	04-06-2026
Date of Calibration	03-06-2026	Next Calibration Due	03-06-2027

CUSTOMER NAME AND ADDRESS

M/s. Chavanke Engineering Private Limited, PAP-113, Near AIMA Office, MIDC, Ambad, Nashik-422010	Certificate Number	: CS/26/340/MP/2
Customer Reference: Verbal	Date of Receipt	: 01-06-2026
	Condition of UUC Received	: Satisfactory
	Calibration At	: Lab

DETAILS OF THE UNIT UNDER CALIBRATION

Description	: Micro Manometer	Cal.Range	: -35 to 35 hpa
Make/Model Number	: TSI Alnor / PVM610	Resolution	: 0.001 hPa
Sl.No./Tag Number	: PVM611808008 / P-02	Accuracy	: $\pm 1\%$ rdg
Range	: -37.75 to 37.75 hpa	Location	: NA
Calibrated By	: T. Pandi Kumar	Equipment Name	: NA

Environmental Conditions		Calibration Method	Disciplines	Mechanical
Temperature	(23 $\pm$ 1.5) $^{\circ}$ C	Comparison Method	Work Instruction	WI/RD/PR/08
Humidity	(50 $\pm$ 20)%RH		Group	Pressure Indicating Devices

DETAILS OF THE STANDARD INSTRUMENT USED FOR CALIBRATION

Description	Make	Id No.	Sl.No	Certificate No.	Validity
Low Pressure Calibrator	GE Druck	P-44	11420854	25090828/D1.06/C-126	21-10-2026
Low Pressure Calibrator	GE Druck	P-44	11420854	25090828/D1.06/C-127	21-10-2026



Scope



Certificate



T. Pandi Kumar
Authorised Signatory
T. Pandi Kumar
Technical Manager



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Mechanical Calibration-Pressure and Vacuum

Calibration Results

Positive Port Pressure:

Unit Under Calibration P_{ind} hpa	Standard Instrument P_{std} hpa			Mean Value MP_{std} hpa	Error ΔP hpa	Repeatability b' hpa	Hysteresis h hpa	Expanded Uncertainty $\pm$ U hpa
	Rising M_1	Falling M_2	Rising M_3					
0.000	0.000	-0.001	-0.001	-0.001	0.001	-	-	-
5.000	4.992	4.991	4.991	4.991	0.009	0.000	0.0010	0.0014
8.000	7.989	7.988	7.989	7.989	0.011	0.001	0.0010	0.0017
13.000	12.984	12.985	12.984	12.985	0.015	0.001	0.0010	0.0023
17.000	16.981	16.981	16.981	16.981	0.019	0.001	0.0000	0.0031
22.000	21.981	21.980	21.980	21.980	0.020	0.000	0.0010	0.0040
26.000	25.977	25.976	25.975	25.976	0.024	0.001	0.0010	0.0047
31.000	30.960	30.961	30.961	30.961	0.039	0.002	0.0010	0.0056
35.000	34.959	34.959	34.958	34.959	0.041	0.000	0.0000	0.0063

Unit Under Calibration P_{ind} hpa	Standard Instrument P_{std} hpa			Mean Value MP_{std} hpa	Error ΔP hpa	Repeatability b' hpa	Hysteresis h hpa	Expanded Uncertainty $\pm$ U hpa
	Rising M_1	Falling M_2	Rising M_3					
0.000	0.000	-0.001	-0.001	-0.001	0.001	-	-	-
5.000	4.990	4.991	4.990	4.991	0.009	0.001	0.0010	0.0015
8.000	7.985	7.986	7.984	7.985	0.015	0.000	0.0010	0.0016
13.000	12.974	12.973	12.974	12.974	0.026	0.001	0.0010	0.0023
17.000	16.962	16.963	16.962	16.963	0.037	0.001	0.0010	0.0031
22.000	21.961	21.960	21.961	21.961	0.039	0.001	0.0010	0.0040
26.000	25.964	25.965	25.965	25.965	0.035	0.002	0.0010	0.0047
31.000	30.968	30.967	30.968	30.968	0.032	0.001	0.0010	0.0056
35.000	34.967	34.967	34.966	34.967	0.033	0.000	0.0000	0.0063

Remarks :

1) $MP_{std} = ((M_1 + M_3)/2 + M_2)/2$;

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

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

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

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

5) As per IS : 3624-1987, SI unit of Pressure is Pascal (Pa). 1 Pascal (Pa) = 0.01 hpa.

6) Medium used for Calibration : Pressure & Vacuum - Air.

T. Pandi kumar
Authorised Signatory

T. Pandi kumar
Technical Manager

