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Vijay Instrumentation Services
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CC-2695

Calibration Certificate

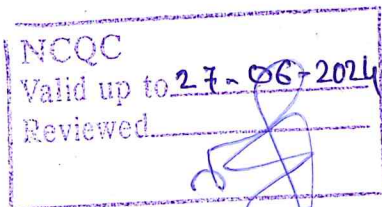
FF - 24		Page 1 of 3	
Certificate No : VIS/23-24/M-677	Date of Calibration : 27.06.2023	ULR No. : CC269523000000677F	Recommended Due Date : 27.06.2024
	Date of Issue : 05.07.2023		
Customer Details : National Centre For Quality Calibration 4, Abhishree Corporate Park, Near Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat, India.	Calibrated at : Mechanical Lab	Discipline : Mechanical Calibration	Group : Pressure Indicating Device
	Receipt Date : 27.06.2023	Cond. On Receipt : Satisfactory	Receipt No : VIS/S-373/23-24
Test Instrument : Digital Compound Gauge	Serial No. : NVEM1806033	Model : MGA N32-2	ID No. : NCQC/M-145
Range : -1 to 2 bar	Make : Vijay Enterprises	Least Count : 0.0001 bar	
Accuracy : +/- 0.05%FS			
Details of Standard Used : Pneumatic Dead Weight Tester	Sr. No./Certi.No. : 71759 / M-200826-09-1/A	Name/Make : Fluke Calibration Phoenix	Range : -20 mmHg to -760mmHg
Traceability : Godrej, Mumbai.	Valid Up to : 26.08.2025		0.2kg/cm2 to 35kg/cm2
Work Instruction No : CP - 01	Standard Used : DKD-R-6-1		ISO-GUM-1995
Environment Details			
Temperature : (23 +/- 1.5)°C	Relative Humidity : (40 - 70)%		

Remarks

- The reported Expanded Uncertainty is calculated at 95% C.L. with Coverage Factor $k=2$.
- Readings are taken in kg/cm² (PRESSURE) & mmHg (VACUUM)
- CONVERSION :-
1 kg/cm² = 0.98067 bar
1 mmHg = 0.00133 bar
- Test reading is corrected for Local gravity and temperature.
- Local gravity = 9.78763363 m/s² Uncertainty = 50 ppm

Calibrated By: Harshvardhan Kumar
Lab Engineer

SIDDHARTH Digitally signed by
SIDDHARTH VIJAY PATIL
Approved By: VIJAY PATIL Date: 2023.07.05
16:25:50 +05'30'
Technical Manager / Siddharth Patil (CEO)



Calibration Certificate

Certificate No: VIS/23-24/M-677
ULR No. : CC269523000000677F

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Calibration Results

Sr. No.	Standard DWT Read.	Test Reading						Mean Value	Deviation	Deviation Allowed +/-	Repeatability	Hysteresis	Uncertainty +/-
		Up	Down	Up	Down	Up	Down						
		bar	bar	bar	bar	bar	bar						
1	-0.98658	-0.9870	-0.9868	-0.9870	-0.9868	-0.9870	-0.9870	-0.98693	-0.00035	0.00150	0.00020	0.00013	0.00024
2	-0.89326	-0.8937	-0.8935	-0.8935	-0.8937	-0.8935	-0.8935	-0.89357	-0.00031	0.00150	0.00020	0.00013	0.00024
3	-0.78660	-0.7869	-0.7867	-0.7867	-0.7869	-0.7867	-0.7869	-0.78680	-0.00020	0.00150	0.00020	0.00020	0.00029
4	-0.58662	-0.5869	-0.5868	-0.5868	-0.5869	-0.5868	-0.5868	-0.58683	-0.00021	0.00150	0.00010	0.00007	0.00017
5	-0.39997	-0.4001	-0.4000	-0.4001	-0.4001	-0.4000	-0.4000	-0.40005	-0.00008	0.00150	0.00010	0.00003	0.00015
6	-0.29331	-0.2932	-0.2933	-0.2933	-0.2932	-0.2933	-0.2932	-0.29325	0.00006	0.00150	0.00010	0.00010	0.00021
7	-0.19998	-0.1998	-0.2000	-0.2000	-0.1998	-0.2000	-0.2000	-0.19993	0.00005	0.00150	0.00020	0.00013	0.00022
8	-0.09333	-0.0933	-0.0932	-0.0933	-0.0932	-0.0933	-0.0933	-0.09325	0.00008	0.00150	0.00010	0.00010	0.00018
9	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00150	0.00000	0.00000	0.00013

All reading are taken in mmHg at the time of calibration and converted to bar.

Calibrated By: Harshvardhan Kumar
Lab Engineer

SIDDHARTH Digitally signed by
SIDDHARTH VIJAY PATIL
Date: 2023.07.05 16:26:08
+05'30'
Approved By: VIJAY PATIL
Technical Manager / Siddharth Patil (CEO)

Note :

- The above results are without any adjustment / repair.
- Equipment used for calibration are calibrated & traceable to National & International Standards.
- The calibration results reported are valid at the time of and under stated conditions of the measurements.
- This certificate refers only to particular Items submitted for calibration.
- VIS is not liable for any change in calibration data & performance specification on account of malfunctioning of Standards/Instruments/Equipments covered by this certificate due to damage caused to it after issuance of this certificate.

Calibration Certificate

Certificate No: VIS/23-24/M-677
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Calibration Results

Sr. No.	Standard DWT Read.	Test Reading						Mean Value	Deviation	Deviation Allowed +/-	Repeatability	Hysteresis	Uncertainty +/-
		Up	Down	Up	Down	Up	Down						
		bar	bar	bar	bar	bar	bar						
1	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00150	0.00000	0.00000	0.00013
2	0.19613	0.1960	0.1959	0.1961	0.1960	0.1959	0.1961	0.19600	-0.00013	0.00150	0.00020	0.00013	0.00021
3	0.39227	0.3921	0.3923	0.3921	0.3922	0.3923	0.3923	0.39222	-0.00005	0.00150	0.00020	0.00010	0.00019
4	0.58840	0.5885	0.5884	0.5886	0.5885	0.5885	0.5884	0.58848	0.00008	0.00150	0.00010	0.00010	0.00019
5	0.78454	0.7848	0.7847	0.7846	0.7847	0.7846	0.7846	0.78467	0.00013	0.00150	0.00020	0.00007	0.00018
6	0.98067	0.9810	0.9809	0.9810	0.9808	0.9809	0.9809	0.98092	0.00025	0.00150	0.00010	0.00010	0.00021
7	1.37294	1.3732	1.3731	1.3733	1.3731	1.3732	1.3732	1.37318	0.00024	0.00150	0.00010	0.00010	0.00023
8	1.56907	1.5696	1.5695	1.5694	1.5696	1.5695	1.5695	1.56952	0.00045	0.00150	0.00020	0.00010	0.00024
9	2.05941	2.0600	2.0599	2.0598	2.0599	2.0599	2.0598	2.05988	0.00047	0.00150	0.00020	0.00010	0.00027

All reading are taken in kg/cm² at the time of calibration and converted to bar.

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Lab Engineer

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Approved By: VIJAY PATIL Date: 2023.07.05 16:26:23 +05'30'
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