NABL ACCREDITATION | CW-408 | HEPA FILTER

National Accreditation Board for Testing and Calibration Laboratories, Department of Science and Technology, Government of India.

Parashar Micro Measurement Pvt. Ltd.
B-59, SECTOR-64, NOIDA (U.P.) 201 307
PH.: 0120-4252360-65, Email : pmmpl.india@gmail.com
Website : www.pmmpl.in, www.parashar.info

Calibration Certificate

Certificate Number : PMM/231124/11-2 | Page 1 of 2

Calibrated For	M/s. Amity Academy Of Data Science. (Froyo Technologies) 102, 1st Floor Bhaghmal Complex Naya Bans, Sector - 15, Noida, U.P. - 201301	Date of Request	23.11.2024
		Calibrated on	23.11.2024
		Suggested Due Date	22.11.2025
		Cert. Issue Date	27.11.2024

Description of Equipments

		Accuracy/Class	Not Mentioned
Nomenclature	Hepa Filter (Portable)	Condition of UUC	Physically Ok
Range	Refer to Result	Serial No.	------
Resolution / Least Count	------	Party ID Mark No.	CW - 408
Make & Model No.	------	Location	------
Material / Type	------		

Master Equipment / Standard Used

Sr. No.	Nomenclature	Make & Model	Serial No. / ID Mark	Calibrated From	Certificate No.	Due Date of Calibration
1	Airborne Particle Counter	Biobase / CLJ-2083	CLJ20532304026	SPM Lab Solution	SPM/NV/2024/093	28.05.2025
2	Anemometer	Sigma	PMM/SI/AM/02	Adcon Gurgaon	ATCL/24-25/L/0020	17.02.2025

Standard used for calibration are traceable to Accredited lab. for Standard ISO/IEC : 17025-2017 or National Standards through unbroken chain of calibration.

Calibration Performed at	Site	Environmental Condition(s)	Temperature = 23 ± 5° C Humidity = 30 to 75 % RH
Calibration Procedure No.	PMM/TICP/01		
Reference Standard / Guideline	ISO 14644-1		

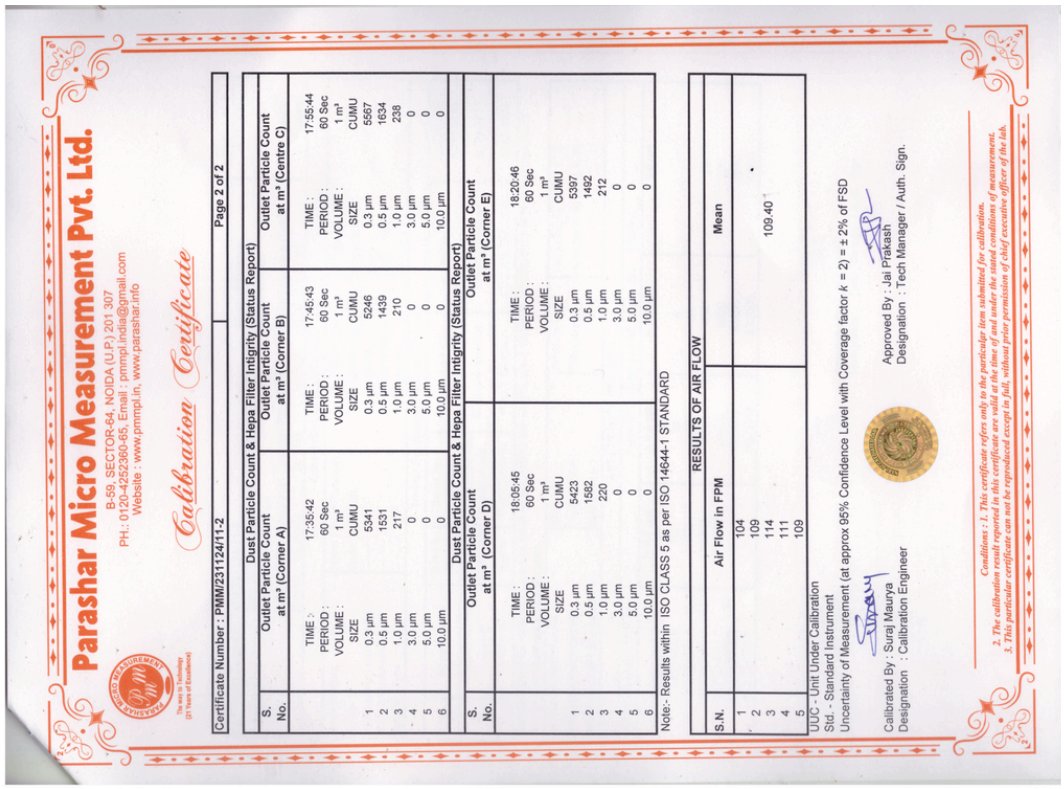
ACCEPTANCE CRITERIA

ISO Cleanroom Classes	Particle Counter per M³ as per ISO : 14644-1			
	≥ 0.3 µm	≥ 0.5 µm	≥ 1.0 µm	≥ 5.0 µm
ISO CLASS 2	10	4		
ISO CLASS 3	102	35	8	
ISO CLASS 4	1020	352	83	
ISO CLASS 5	10200	3520	832	29
ISO CLASS 6	102000	35200	8320	293
ISO CLASS 7		352000	83200	2930
ISO CLASS 8		3520000	832000	29300

Calibrated By : Suraj Maurya
Designation : Calibration Engineer

Approved By : Jai Prakash
Designation : Tech Manager / Auth. Sign.

Conditions : 1. This certificate refers only to the particular item submitted for calibration.
2. The calibration result reported in this certificate are valid at the time of and under the stated conditions of measurement.
3. This particular certificate can not be reproduced except in full, without prior permission of chief executive officer of the lab.



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Dust Particle Count & Hepa Filter Intigrity (Status Report)

S. No.	Outlet Particle Count at m³ (Corner A)		Outlet Particle Count at m³ (Corner B)		Outlet Particle Count at m³ (Centre C)	
	TIME :	17:35:42	TIME :	17:45:43	TIME :	17:55:44
	PERIOD :	60 Sec	PERIOD :	60 Sec	PERIOD :	60 Sec
	VOLUME :	1 m³	VOLUME :	1 m³	VOLUME :	1 m³
	SIZE	CUMU	SIZE	CUMU	SIZE	CUMU
1	0.3 µm	5341	0.3 µm	5246	0.3 µm	5567
2	0.5 µm	1531	0.5 µm	1439	0.5 µm	1634
3	1.0 µm	217	1.0 µm	210	1.0 µm	238
4	3.0 µm	0	3.0 µm	0	3.0 µm	0
5	5.0 µm	0	5.0 µm	0	5.0 µm	0
6	10.0 µm	0	10.0 µm	0	10.0 µm	0

Dust Particle Count & Hepa Filter Intigrity (Status Report)

S. No.	Outlet Particle Count at m³ (Corner D)		Outlet Particle Count at m³ (Corner E)	
	TIME :	18:05:45	TIME :	18:20:46
	PERIOD :	60 Sec	PERIOD :	60 Sec
	VOLUME :	1 m³	VOLUME :	1 m³
	SIZE	CUMU	SIZE	CUMU
1	0.3 µm	5423	0.3 µm	5397
2	0.5 µm	1582	0.5 µm	1492
3	1.0 µm	220	1.0 µm	212
4	3.0 µm	0	3.0 µm	0
5	5.0 µm	0	5.0 µm	0
6	10.0 µm	0	10.0 µm	0

Note:- Results within ISO CLASS 5 as per ISO 14644-1 STANDARD

RESULTS OF AIR FLOW

S.N.	Air Flow in FPM	Mean
1	104	
2	109	
3	114	109.40
4	111	
5	109	

UUC - Unit Under Calibration
Std. - Standard Instrument
Uncertainty of Measurement (at approx 95% Confidence Level with Coverage factor $k = 2$) = ± 2% of FSD

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ISO 14644-1:2015 specifies the classification of air cleanliness in terms of concentration of airborne particles in cleanrooms and clean zones; and separative devices as defined in ISO 14644-7.