



# QUALITY TECHNICAL SOLUTIONS

PAP-R-289, Near Golden Garage, Rabale, M.I.D.C, Navi-Mumbai, Thane: 400701  
NABL Accredited Calibration Laboratory (CC-3252), ISO 9001:2015 Certified

## Certificate

### PURPOSE: INSTALLED FILTER SYSTEM LEAKAGE TEST

Customer Department	Cipla Ltd., Unit - VII PD II, Verna, Goa Third Service Floor	Date of Test Equipment Name Equipment Code Frequency of Test	12.07.2025 AHU GA-224 Yearly
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### TEST DETAILS

Filter Under Test	Plenum HEPA	Test Aerosol Used	Poly-alpha olefin
Filter Grade	EU-13	Lot No. of PAO Expiry Date of PAO	249012OP 06.02.2026

### INSTRUMENT DETAILS

Instrument Used (1) Make Model Serial Number Flow Rate Calibrated on Calibration Due on	Aerosol Photometer TEC Services PH-5 04011 28.3 SLPM 06.01.2025 06.01.2026	Instrument Used (2) Make Model Serial Number	Aerosol Generator Innovius Solutions ISAG-01 ISAG010012122
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### OBTAINED TEST RESULTS

Room Name / Area	Filter Code	Upstream PAO Concentration Observed Value microgram / litre or mg/m <sup>3</sup>		Upstream PAO Concentration in%	Obtained Results in Downstream (% Leakage)	Test Status (Pass / Fail)
		Before Scanning	After Scanning			
Third Service Floor	GA-224/HF/0.3μ/01/A	15	13	100%	0.0008	Pass
	GA-224/HF/0.3μ/02/A				0.0012	Pass
	GA-224/HF/0.3μ/03/A				0.0006	Pass
	GA-224/HF/0.3μ/04/A				0.0009	Pass
	GA-224/HF/0.3μ/05/A				0.0013	Pass
	GA-224/HF/0.3μ/06/A				0.0010	Pass

**Acceptance Criteria :** Upstream PAO Concentration should be between 1 to 100 microgram / litre or mg/m<sup>3</sup>.

Downstream leakage shall be less than 0.01% of the Upstream challenge aerosol concentration.

**Inference :** The HEPA Filter Qualifies the leak test by Cold PAO method.