



IAPMO INDIA PRIVATE LIMITED

<b>Document No.</b>	IAPMO/ILAB/TR/02
<b>Test Report No.</b>	IAPMO/ILAB/ 20463, 20463A/24-25
<b>Date</b>	13.05.2025
<b>Revision No.</b>	01
<b>Reference</b>	NSF/ANSI 53-2023

**TEST REPORT**

<b>CUSTOMER DETAILS</b>	<b>SAMPLE DETAILS</b>	<b>TEST DETAILS</b>
<b>Name &amp; Address:</b>  <b>Mr. Abdul Azim</b> <b>RFT C/O KAJAH ACTIVATED CARBON</b> Pallapatty village, Madurai Trichy Highway, Kottampatti, Madurai District - 625103, Tamil Nadu	<b>Submitted By:</b> RFT C/O KAJAH ACTIVATED CARBON	<b>Protocol:</b> NSF/ANSI 53-2023
	<b>Sample Code No.:</b> IAPMO/ILAB/20463,20463A/24-25	
	<b>Sample Description:</b> 170F.5 Cyst Reduction	
	<b>Sample Received Date:</b> 05.05.2025	
	<b>Date Of Analysis Started:</b> 05.05.2025	
	<b>Date Of Analysis Completed:</b> 09.05.2025	
	<b>Sample Quantity for Testing:</b> 2 No's.	
<b>Sample Condition When Received:</b> Intact		

**EXECUTIVE SUMMARY:**

**RFT C/O KAJAH ACTIVATED CARBON**, submitted two filters for testing under **NSF/ANSI-53** standards to assess their effectiveness in Cyst (Microspheres) reduction. The filters were tested following the prescribed protocol, and the results indicated that even at 75% performance levels, Cyst (Microspheres) effectively reduced.

**CONCLUSION**

The testing and analysis confirm that the filters demonstrate strong performance in reducing Cyst (Microspheres) reduction, even under challenging conditions as per NSF/ANSI 53. Hence it **meets** the standard requirements.

**AIM OF THE EXPERIMENT:**

The primary aim of this evaluation was to assess the performance of the filters in reducing the Cyst (Microspheres) as per NSF /ANSI 53 standard.

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**CYCLES OF MICROSPHERE CHALLENGE TEST WATER, TEST DUST WATER AND GENERAL TEST WATER FEEDING THE TEST FILTER**

No. of cycles	Type of Test water fed	Volume of Filtration Liters - 20463A	Volume of Filtration Liters - 20463
8	Challenge water	517.00	541.00
Up to 25% drop of Water Flow	Test Dust water	90.00	274.00
2	General test water	90.00	84.00
4	Challenge water	273.00	268.00
Beginning of 4th cycle	Sampling		
Up to 50% drop of Water Flow	Test Dust water	377.00	379.00
2	General test water	62.00	62.00
4	Challenge water	169.00	157.00
Beginning of 4th cycle	Sampling		
Up to 75% drop of Water Flow	Test Dust water	113.60	406.70
2	General test water	20.00	20.00
4	Challenge water	40.86	40.03
Total volume of filtration liters		1752.46	2231.73

**FEED WATER COMPOSITION THROUGHOUT THE TEST**


Test parameters	Maintained concentration during the test
pH	7.5±0.5
TDS (mg/L)	280 - 300
Hardness(mg/L)	64 - 75
Turbidity NTU	<1
Temperature °C	20 - 23

**TEST COMPOSITION FOR MICROBIAL CONTAMINANTS OF INFLUENT CHALLENGE WATER**

Contaminant	Influent Challenge Level	Minimum Allowable Product Water Level
3µ microspheres	5.0 × 10 <sup>4</sup> / litres	99.9 % reduction
		(LRV 3)

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### TEST DATA of 20463 [Filter 1]

Sampling Points	Influent water 3-micron microspheres/L	Effluent water 3-micron microspheres/L	% Reduction	Filter- 1 (LRV)	Flow rate Liters/Minute	Result
Initial at 8th cycle of cyst challenge	54600	<20	99.96	3.43	2.10	Pass
At 25% flow reduction with cyst challenge	55200	<20	99.96	3.44	1.50	Pass
At 50% flow reduction with cyst challenge	52400	<20	99.96	3.41	1.02	Pass
At 75% flow reduction with cyst challenge	52800	<20	99.96	3.42	0.53	Pass


### TEST DATA of 20463A [Filter 2]

Sampling Points	Influent water 3-micron microspheres/L	Effluent water 3-micron microspheres/L	% Reduction	Filter- 2 (LRV)	Flow rate Liters/Minute	Result
Initial at 8th cycle of cyst challenge	54600	<20	99.96	3.43	1.90	Pass
At 25% flow reduction with cyst challenge	55200	<20	99.96	3.44	1.49	Pass
At 50% flow reduction with cyst challenge	52400	<20	99.96	3.41	0.99	Pass
At 75% flow reduction with cyst challenge	52800	<20	99.96	3.42	0.51	Pass

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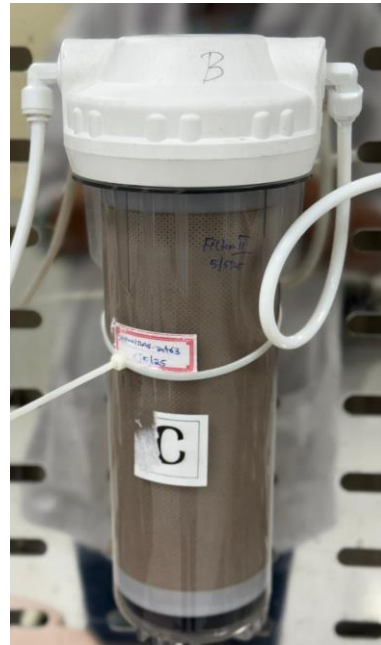
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**PICTURE OF THE PRODUCT**



**20463- Filter 1**



**20463A - Filter 2**

**Reviewed & Issued By**



**Mukthesh Pathi**  
Vice President - Laboratory

**---END OF THE TEST REPORT ---**

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