



**PHOENIX**  
GRAVITY

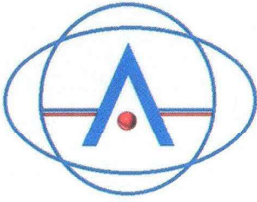
Third-party Lab Reports  
Carbon Filter Cartridge  
Heavy Metals

# Atom Testing Laboratory

A procedure to prove the existence

Accreditation: NABL(ISO/IEC 17025:2017)

#B-376, 9th Cross, Ring Road, Peenya 1st Stage, Peenya Industrial Estate,  
Bangalore - 560 058. Phone : 080-42021842 E-mail : atomprocedure@gmail.com



## Analytical Report

**REPORT ISSUED TO: RAMA PURE WATER PVT LTD**

**Date: 20112023**

**Customer Address: #196, East Coast Road, Injambakkam, Chennai, Tamilnadu - 600115**

**Report Number: 2311159**

**Test Data Summary :**

**Sample Name** : CARBON GRAVITY FILTER  
**Product Code** : PHOENIX GRAVITY FILTER  
**Batch Number** : RMU1023  
**Sample Details** : 210mm L X 70mm OD  
**Capacity Of Block** : More than 4000L  
**Flow Rate** : 3-5 LPH

**Flushing time:**

The system/unit is flushed in accordance with the manufactures instructions using test water.  
The system is challenged using appropriate influent challenge water.

**Test Run: 50% ON / 50% OFF cycle.**

**Instruments used for the testing:**

- ICPMS: Inductively Coupled Plasma Mass Spectrophotometer for Heavy Metals.

**Methods**

- As per the Standard guidelines of NSF 53 AND NSF 42
- Test methods followed as per APHA 22ND EDITION
- Test methods followed as per AOAC 20TH EDITION
- Test methods followed as per EPA guidelines.
- Microbiology as per the test methods of NSF PROTOCOL

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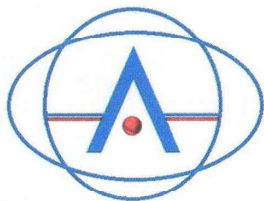
  
**Vivekanand Bhat**  
**General Manager**  
Authorised Signatory

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## Analytical Report

### Results

| Parameters  | General Test Water | Target                                  |
|-------------|--------------------|---|
| pH          | 7.0 to 7.68        | 6.5 to 8.5                              |
| Temperature | 20.0°C to 23.5°C   | 20.5°C                                  |
| TDS         | 200 to 400 mg/L    | 50-500 mg/L                             |
| Turbidity   | 1 to 5 NTU         | 3 to 5 Nephelometric<br>Turbidity Units |
| TOC         | 2.0 to 3.0 mg/L    | 2 to 5 mg/L                             |

Table 2: - Challenge Water Properties

| Parameters  | Influent Challenge Water | Target     |
|-------------|--------------------------|------------|
| pH          | 8.5-9.3                  | 8.5 to 9.5 |
| Temperature | 18.5-21.3°C              | 20.5°C     |

Table 3: - Input Water Properties

|           |                |   |
|-----------|----------------|---|
| TDS       | 1250-1658 mg/L | 1250-1700 mg/L                          |
| Turbidity | 3 to 5 NTU     | 3 to 5 Nephelometric<br>Turbidity Units |
| TOC       | 10 to 15mg/L   | 10 to 15 mg/L                           |

### Chemical Test Reports

#### Heavy Metal Contaminants, µg/L

| Element   | Input Concentration | Output Concentration | % Reduction |
|-----------|---------------------|----------------------|-------------|
| Aluminum  | 200                 | <2                   | 99.9 +      |
| Antimony  | 21                  | <0.5                 | 99.9 +      |
| Arsenic   | 200                 | <0.5                 | 99.9 +      |
| Beryllium | 200                 | <0.2                 | 99.9 +      |
| Bismuth   | 50                  | 0.3                  | 99.43       |
| Boron     | 20                  | <1                   | 99.9 +      |
| Barium    | 20                  | <1                   | 99.9 +      |
| Cadmium   | 20                  | <0.2                 | 99.9 +      |
| Chromium  | 200                 | 7.2                  | 97.21       |
| Copper    | 2000                | 40.8                 | 97.96       |
| Iron      | 1500                | 25.9                 | 98.35       |
| Lead      | 150                 | 9.0                  | 94.00       |
| Manganese | 500                 | <0.5                 | 99.9 +      |
| Mercury   | 10                  | <0.1                 | 99.9 +      |
| Nickel    | 100                 | <0.5                 | 99.9 +      |
| Selenium  | 100                 | <0.5                 | 99.9 +      |
| Zinc      | 150                 | 26.1                 | 82.60       |

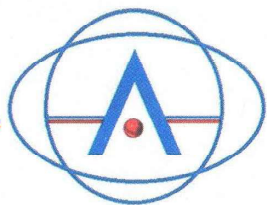


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## Analytical Report

### Disinfectant and Inorganic Non-Metallic Contaminants in mg/L

| Element       | Input Concentration | Output Concentration | % Reduction |
|---------------|---------------------|----------------------|-------------|
| Chloramines   | 3.02                | <0.1                 | 99.9+       |
| Free Chlorine | 2.0                 | <0.1                 | 99.9+       |
| Chloride      | 236                 | 10                   | 98.2+       |

### Inorganic Non-Metallic Contaminants in mg/L

| Drinking Water Containment Tested | Influent Water Concentration in µg/L | Filter Element Effluent Concentration in µg/L | % Reduction |
|-----------------------------------|--------------------------------------|---|-------------|
| Nitrates                          | 42                                   | 0.3   | 99.0        |
| Nitrites                          | 3.8                                  | <0.1  | 99.9 +      |
| Fluoride                          | 8000                                 | 1960  | 75.5        |



Fig 1: - Candle

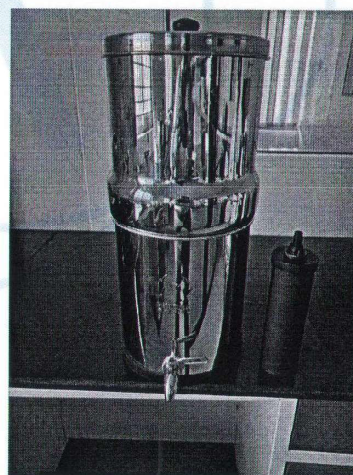


Fig 2: - Filtering Unit

### CONCLUSION:

The Filter Element meets the requirements for the Chemical Reduction NSF Protocol Passed.





**PHOENIX**  
GRAVITY

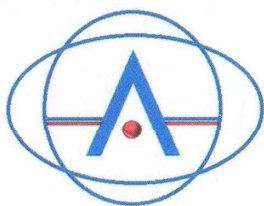
Third-party Lab Reports  
Carbon Filter Cartridge  
Pharmaceuticals, VOCs

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## Analytical Report

**REPORT ISSUED TO: RAMA PURE WATER PVT LTD**

**Date: 20112023**

**Customer Address: #196, East Coast Road, Injambakkam, Chennai, Tamilnadu - 600115**

**Report Number: 2311160**

### Test Data Summary :

**Sample Name** : CARBON GRAVITY FILTER  
**Product Code** : PHOENIX GRAVITY FILTER  
**Batch Number** : RMU1023  
**Sample Details** : 210mm L X 70mm OD  
**Capacity Of Block** : More than 4000L  
**Flow Rate** : 3-5 LPH

### Flushing time:

The system/unit is flushed in accordance with the manufactures instructions using test water.  
The system is challenged using appropriate influent challenge water.

**Test Run: 50% ON / 50% OFF cycle.**

### Instruments used for the testing:

• GCMSMS: Gas chromatography with Mass Spectroscopy for the evaluation of Pesticides  
Polyaromatic hydrocarbons, Polychlorinated biphenyls and Volatile Organic Compounds.

### Methods

- As per the Standard guidelines of NSF 53 AND NSF 42
- Test methods followed as per APHA 22ND EDITION
- Test methods followed as per AOAC 20TH EDITION
- Test methods followed as per EPA guidelines.
- Microbiology as per the test methods of NSF PROTOCOL

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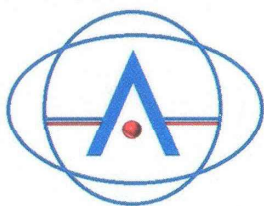
  
**Vivekanand Bhat**  
**General Manager**  
Authorised Signatory

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## Analytical Report

### Results

| Parameters  | General Test Water | Target                               |
|-------------|--------------------|--------------------------------------|
| pH          | 7.0 to 7.68        | 6.5 to 8.5                           |
| Temperature | 20.0°C to 23.5°C   | 20.5°C                               |
| TDS         | 200 to 400 mg/L    | 50-500 mg/L                          |
| Turbidity   | 1 to 5 NTU         | 3 to 5 Nephelometric Turbidity Units |
| TOC         | 2.0 to 3.0 mg/L    | 2 to 5 mg/L                          |

Table 2: - Challenge Water Properties

| Parameters  | Influent Challenge Water | Target     |
|-------------|--------------------------|------------|
| pH          | 8.5-9.3                  | 8.5 to 9.5 |
| Temperature | 18.5-21.3°C              | 20.5°C     |

Table 3: - Input Water Properties

|           |                |                                      |
|-----------|----------------|--------------------------------------|
| TDS       | 1250-1658 mg/L | 1250-1700 mg/L                       |
| Turbidity | 3 to 5 NTU     | 3 to 5 Nephelometric Turbidity Units |
| TOC       | 10 to 15mg/L   | 10 to 15 mg/L                        |

### Pharmaceutical Drugs Contaminants in µg/L

| Drinking Water Containment Tested | Influent Water Concentration in µg/L | Filter Element Effluent Concentration in µg/L | % Reduction |
|-----------------------------------|--------------------------------------|---|-------------|
| Caffeine                          | 18.6                                 | <0.1  | 99.9 +      |
| Bisphenol A                       | 20.2                                 | <0.1  | 99.9 +      |

  
**Vivekanand Bhat**  
General Manager  
Authorised Signatory



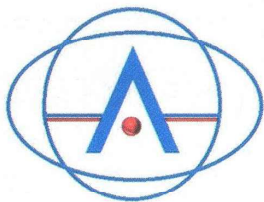
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## Analytical Report

Volatile Organic Contaminants  $\mu\text{g/L}$  (Considered mainly as a Chloroform)

| Drinking Water Contaminant Tested | Influent Water Concentration in $\mu\text{g/L}$ | Filter Element Effluent Concentration in $\mu\text{g/L}$ | % Reduction |
|-----------------------------------|---|--|-------------|
| Dichlorodifluoromethane           | 80.5  | <0.5   | 99.9+       |
| Chloromethane                     | 80.2  | <0.5   | 99.9+       |
| Vinylchloride                     | 80.1  | <0.5   | 99.9+       |
| Bromomethane                      | 80.0  | <0.5   | 99.9+       |
| Chloroethane                      | 80.0  | <0.5   | 99.9+       |
| Trichlorofluoromethane            | 80.0  | <0.5   | 99.9+       |
| 1,1-Dichloroethene                | 81.0  | <0.5   | 99.9+       |
| Methylene Chloride                | 80.1  | <0.5   | 99.9+       |
| trans-1,2-Dichloroethene          | 80.2  | <0.5   | 99.9+       |
| MTBE                              | 80.1  | <0.5   | 99.9+       |
| 1,1-Dichloroethane                | 80.5  | <0.5   | 99.9+       |
| cis-1,2-Dichloroethene            | 80.2  | <0.5   | 99.9+       |
| 2,2-Dichloropropane               | 80.0  | <0.5   | 99.9+       |
| Bromochloromethane                | 80.0  | <0.5   | 99.9+       |
| Chloroform                        | 80.0  | <0.5   | 99.9+       |
| Carbon Tetrachloride              | 80.0  | <0.5   | 99.9+       |
| 1,1,1-Trichloroethane             | 80.0  | <0.5   | 99.9+       |

|                      |      |      |       |
|----------------------|------|------|-------|
| 1,1-Dichloropropene  | 80.0 | <0.5 | 99.9+ |
| Benzene              | 80.0 | <0.5 | 99.9+ |
| 1,2-Dichloroethane   | 80.0 | <0.5 | 99.9+ |
| Trichloroethene      | 80.2 | <0.5 | 99.9+ |
| Dibromomethane       | 80.2 | <0.5 | 99.9+ |
| 1,2-Dichloropropane  | 80.1 | <0.5 | 99.9+ |
| Bromodichloromethane | 80.0 | <0.5 | 99.9+ |

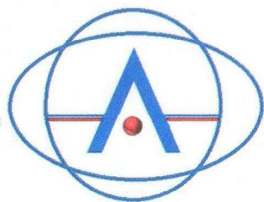
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## Analytical Report

|                           |      |      |       |
|---------------------------|------|------|-------|
| cis-1,3-Dichloropropene   | 80.0 | <0.5 | 99.9+ |
| Toluene                   | 80.0 | <0.5 | 99.9+ |
| trans-1,3-Dichloropropene | 80.0 | <0.5 | 99.9+ |
| Tetrachloroethene         | 80.0 | <0.5 | 99.9+ |
| 1,1,2-Trichloroethane     | 80.0 | <0.5 | 99.9+ |
| Chlorodibromomethane      | 80.0 | <0.5 | 99.9+ |
| 1,3-Dichloropropane       | 80.0 | <0.5 | 99.9+ |
| Ethylbenzene              | 80.0 | <0.5 | 99.9+ |
| Chlorobenzene             | 80.0 | <0.5 | 99.9+ |
| 1,1,1,2-Tetrachloroethane | 80.0 | <0.5 | 99.9+ |
| m-Xylene                  | 40.0 | <0.5 | 99.9+ |
| o-Xylene                  | 40.0 | <0.5 | 99.9+ |
| Styrene                   | 80.0 | <0.5 | 99.9+ |
| Bromoform                 | 80.0 | <0.5 | 99.9+ |
| Isopropylbenzene          | 80.0 | <0.5 | 99.9+ |
| n-Propylbenzene           | 80.0 | <0.5 | 99.9+ |
| Bromobenzene              | 80.0 | <0.5 | 99.9+ |
| 1,1,2,2-Tetrachloroethane | 80.0 | <0.5 | 99.9+ |
| 1,3,5-Trimethylbenzene    | 80.0 | <0.5 | 99.9+ |

|                        |      |      |       |
|------------------------|------|------|-------|
| 2-Chlorotoluene        | 80.0 | <0.5 | 99.9+ |
| 1,2,3-Trichloropropane | 80.0 | <0.5 | 99.9+ |
| 4-Chlorotoluene        | 80.0 | <0.5 | 99.9+ |
| tert-Butylbenzene      | 80.0 | <0.5 | 99.9+ |
| 1,2,4-Trimethylbenzene | 80.0 | <0.5 | 99.9+ |
| sec-Butylbenzene       | 80.0 | <0.5 | 99.9+ |
| 4-Isopropyltoluene     | 80.0 | <0.5 | 99.9+ |
| 1,3-Dichlorobenzene    | 80.0 | <0.5 | 99.9+ |
| 1,4-Dichlorobenzene    | 80.0 | <0.5 | 99.9+ |
| n-Butylbenzene         | 80.0 | <0.5 | 99.9+ |
| 1,2-Dichlorobenzene    | 80.0 | <0.5 | 99.9+ |

Page 4 of 5

  
**Vivekanand Bhat**  
General Manager  
Authorised Signatory

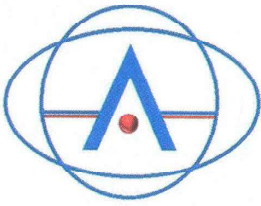


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## Analytical Report



Fig 1: - Candle



Fig 2: - Filtering Unit

### CONCLUSION:

The Filter Element meets the requirements for the Volatile Organic Compounds Reduction NSF Protocol Passed.

  
**Vivekanand Bhat**  
**General Manager**  
Authorised Signatory





**PHOENIX**  
GRAVITY

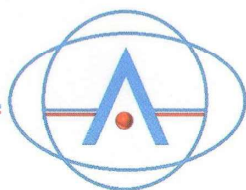
Third-party Lab Reports  
Carbon Filter Cartridge  
Microbiological

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## Analytical Report

**REPORT ISSUED TO: RAMA PURE WATER PVT LTD**

**Date: 20112023**

**Customer Address: #196, East Coast Road, Injambakkam, Chennai, Tamilnadu - 600115**

**Report Number: 2311162**

### Test Data Summary :

**Sample Name : CARBON GRAVITY FILTER**  
**Product Code : PHOENIX GRAVITY FILTER**  
**Batch Number : RMU1023**  
**Sample Details : 210mm L X 70mm OD**  
**Capacity Of Block : More than 4000L**  
**Flow Rate : 3-5 LPH**

### Flushing time:


**The system/unit is flushed in accordance with the manufactures instructions using test water.  
The system is challenged using appropriate influent challenge water.**

**Test Run: 50% ON / 50% OFF cycle.**

### Methods

- **As per the Standard guidelines of NSF 53 AND NSF 42**
- **Test methods followed as per APHA 22ND EDITION**
- **Test methods followed as per AOAC 20TH EDITION**
- **Test methods followed as per EPA guidelines.**
- **Microbiology as per the test methods of NSF PROTOCOL**

Page 1 of 5

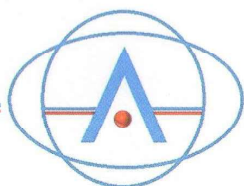
  
**Vivekanand Bhat**  
**General Manager - Quality**  
**Authorised Signatory**

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## Analytical Report

### MICROBIOLOGICAL TEST REPORT

#### PROCEDURE

Flushed the filter element with approximately 1 gallon of sterile water. Prepared 20 gallons of general test water daily for 6 consecutive days with Klebsiella at a concentration of  $10^6/L$ , Rotavirus at  $10^4/L$ , and microspheres at  $10^6/L$ . Two days of stagnation. Prepared 20 gallons of challenge water for the following 4 days without adding the micro-organisms and two additional days of stagnation. Table 1 and 2 summarize the general test and challenge water properties. Passed 20 gallons of the general test water through the filter element per day, every day for the first 6 days. Collected the effluent water and analyzed the filtered water for micro-organisms following the Standard Methods of Analysis of Water 21st Edition, methods SM 9222-D (bacteria); SM 9510-B (virus); SM9711-B (cyst).

Left the filter system in stagnation for the following 2 days, then added 20 gallons per day of the challenge water and analyzed the filtered water for micro-organisms following the Standard Methods of Analysis of Water 21st Edition, methods SM 9222-D (bacteria); SM 9510-B (virus); SM9711-B (cyst). The results are summarized in Table 3, 4, and 5 below.

#### RESULTS

| Parameters  | General Test Water | Target                               |
|-------------|--------------------|--------------------------------------|
| pH          | 7.0 to 7.68        | 6.5 to 8.5                           |
| Temperature | 20.0°C to 23.5°C   | 20.5°C                               |
| TDS         | 200 to 400 mg/L    | 50-500 mg/L                          |
| Turbidity   | 1 to 5 NTU         | 3 to 5 Nephelometric Turbidity Units |
| TOC         | 2.0 to 3.0 mg/L    | 2 to 5 mg/L                          |

Table 2: - Challenge Water Properties

| Parameters  | Influent Challenge Water | Target     |
|-------------|--------------------------|------------|
| pH          | 8.5-9.3                  | 8.5 to 9.5 |
| Temperature | 18.5-21.3°C              | 20.5°C     |

Table 3: - Input Water Properties

|           |                |                                      |
|-----------|----------------|--------------------------------------|
| TDS       | 1250-1658 mg/L | 1250-1700 mg/L                       |
| Turbidity | 3 to 5 NTU     | 3 to 5 Nephelometric Turbidity Units |
| TOC       | 10 to 15mg/L   | 10 to 15 mg/L                        |

  
Vivekanand Bhat  
General Manager - Quality

Authorised Signatory

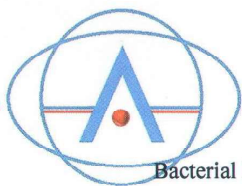


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Bacterial Reduction

## Analytical Report

| Accumulate Volume       | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction: 99,9999 |
|-------------------------|------------------------------|------------------------------|-------------|--|
| Day 1 (20 gallons)      | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 2 (40 gallons)      | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 3 (60 gallons)      | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 4 (80 gallons)      | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 5 (100 gallons)     | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 6 (120 gallons)     | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 7 (Stagnation Day)  | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 8 (Stagnation Day)  | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 9 (140 gallons)     | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 10 (160 gallons)    | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 11 (Stagnation Day) | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 12 (Stagnation Day) | Not Tested                   | Not Tested                   | N/A         | N/A                                    |
| Day 13 (180 gallons)    | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |
| Day 14 (200 gallons)    | 10 <sup>6</sup> /L           | <10 CFU/L                    | 99,9999     | Passed                                 |

Table 4

### Rotavirus (Virus) Test Results

| Accumulate Volume       | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction: 99,99 |
|-------------------------|------------------------------|------------------------------|-------------|--------------------------------------|
| Day 1 (20 gallons)      | 10 <sup>4</sup> /L           | <10 PFU/L                    | 99,99       | Passed                               |
| Day 2 (40 gallons)      | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 3 (60 gallons)      | 10 <sup>4</sup> /L           | <10 PFU/L                    | 99,99       | Passed                               |
| Day 4 (80 gallons)      | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 5 (100 gallons)     | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 6 (120 gallons)     | 10 <sup>4</sup> /L           | <10 PFU/L                    | 99,99       | Passed                               |
| Day 7 (Stagnation Day)  | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 8 (Stagnation Day)  | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 9 (140 gallons)     | 10 <sup>4</sup> /L           | <10 PFU/L                    | 99,99       | Passed                               |
| Day 10 (160 gallons)    | 10 <sup>4</sup> /L           | <10 PFU/L                    | 99,99       | Passed                               |
| Day 11 (Stagnation Day) | Not Tested                   | Not Tested                   | N/A         | N/A                                  |

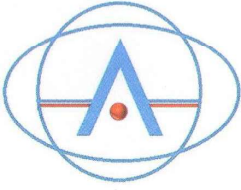
*M. Khat*  
Vivekanand Bhat  
General Manager - Quality  
Authorised Signatory

# Atom Testing Laboratory

A procedure to prove the existence

Accreditation: NABL(ISO/IEC 17025:2017)

#B-376,9th Cross, Ring Road, Peenya 1st Stage, Peenya Industrial Estate,  
Bangalore - 560 058 Phone : 080-42021842 E-mail : atomprocedure@gmail.com



## Analytical Report


|                         |                    |            |       |        |
|-------------------------|--------------------|------------|-------|--------|
| Day 12 (Stagnation Day) | Not Tested         | Not Tested | N/A   | N/A    |
| Day 13 (180 gallons)    | 10 <sup>4</sup> /L | <10 PFU/L  | 99.99 | Passed |
| Day 14 (200 gallons)    | 10 <sup>4</sup> /L | <10 PFU/L  | 99.99 | Passed |

Table 5

### Microspheres (Cryptosporium) Test Results

| Accumulate Volume   | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction: 99.99 |
|---------------------|------------------------------|------------------------------|-------------|--------------------------------------|
| Day 1 (20 gallons)  | 10 <sup>6</sup> /L           | <10 oocysts/L                | 99.99       | Passed                               |
| Day 2 (40 gallons)  | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 3 (60 gallons)  | 10 <sup>6</sup> /L           | <10 oocysts/L                | 99.99       | Passed                               |
| Day 4 (80 gallons)  | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 5 (100 gallons) | Not Tested                   | Not Tested                   | N/A         | N/A                                  |
| Day 6 (120 gallons) | 10 <sup>6</sup> /L           | <10 oocysts/L                | 99.99       | Passed                               |

|                         |                    |               |       |        |
|-------------------------|--------------------|---------------|-------|--------|
| Day 7 (Stagnation Day)  | Not Tested         | Not Tested    | N/A   | N/A    |
| Day 8 (Stagnation Day)  | Not Tested         | Not Tested    | N/A   | N/A    |
| Day 9 (140 gallons)     | 10 <sup>6</sup> /L | <10 oocysts/L | 99.99 | Passed |
| Day 10 (160 gallons)    | 10 <sup>6</sup> /L | <10 oocysts/L | 99.99 | Passed |
| Day 11 (Stagnation Day) | Not Tested         | Not Tested    | N/A   | N/A    |
| Day 12 (Stagnation Day) | Not Tested         | Not Tested    | N/A   | N/A    |
| Day 13 (180 gallons)    | 10 <sup>6</sup> /L | <10 oocysts/L | 99.99 | Passed |
| Day 14 (200 gallons)    | 10 <sup>6</sup> /L | <10 oocysts/L | 99.99 | Passed |

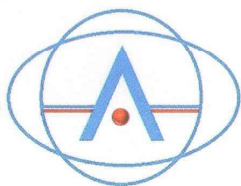
  
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## Analytical Report



Fig 1: - Candle



Fig 2: - Filtering Unit

### CONCLUSION:

**The Filter Element meets the requirements for the Microbiological Reduction NSF Protocol P231 Passed.**

  
**Vivekanand Bhat**  
General Manager - Quality  
Authorised Signatory