



# 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: New Millennium Concepts Limited**

**Date: 20042026**

### Test Data Summary:

**Sample Name** : PHOENIX GRAVITY NEW MILLENNIUM EDITION  
FILTER ELEMENT

**Product Code** : PGF9-2

**Batch Number** : B02102616

**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 manufacturer's 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 PROTOC

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### 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

### 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
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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### 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



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### CONCLUSION:

The Filter Element meets the requirements for the Chemical Reduction NSF Protocol Passe

  
Vivekanand Bhat  
General Manager  
Authorised Signatory