



RAMA Spirit 7" Candle
Filtration performance





March 9, 2021

Test Report

Rama Pure Water Pvt Ltd
196 East Coast Road
Injambakkam Chennai 600115
India

Product Testing Laboratory:

BCS Laboratories, Inc.
4609 NW 6th Street, Ste. A
Gainesville, FL 32609
United States

Dear,

Thank you for having your product tested with the Water Quality Association. We appreciate your business and look forward to working with you on future testing and certification projects. Please see the enclosed analysis report for a review of the data.

Should you have any questions or need additional information, please feel free to contact your Project Leader.

Report Number: 20210111.01.7911.2101L.1801C.01-02.V1
Certification Project #: 7911.1801C
Test Unit: 7911.1801C.01-02
Model/Description: S9P
Product Standard: NSF/ANSI 42 – 2019 version: Drinking Water Treatment Units – Aesthetic Effects
Test Performed: Particulate Reduction - Class I

Test Results: PASS

Report Reviewed By:

Zachary D. Gleason
Laboratory Director
2021.03.09 12:17:20
-06'00'

Zac Gleason, Laboratory Director

3/9/21

Date

All data for the associated quality control (QC) met EPA, method, product standard, or internal laboratory specifications except where noted in the comments. This report may not be reproduced, except in whole, without the written approval of WQA. The test results relate only to the specific items tested and do not indicate the product is certified by WQA or can display the Gold Seal Mark. Study and analysis was conducted as per laboratory accredited ISO17025:2017 methodology. Analysis was conducted using calibrated and/or validated instruments to traceable standards (NIST). All QC was within method acceptance limit. No general environmental conditions are specified in the standard or have been identified that could affect the test results or measurements.

NSF/ANSI 42 Nominal Particulate Reduction Data Summary (Class I)

TEST UNIT INFORMATION

Manufacturer: Rama Pure Water Pvt Ltd
Model: S9P

System Type: A

System Types:

A. Plumbed in systems, point-of-entry systems, & faucet mount systems

B. Nonplumbed pour through or batch treatment system

Test Unit Number(s): 7911.1801C.01-02
Service Flow Rate: 0.5 gpm
Cycle/Use Pattern: 10/90

Class: I
Particle size: $\geq 0.5\mu\text{m}$ to $< 1\mu\text{m}$

Analytical Method: Beckman Coulter MS-4 particle counter
Reporting Limit: N/A
Target Influent: $\geq 10,000$ #/mL
Acceptance Criteria: $\geq 85\%$ reduction

Data Summary:

Sample Point	Influent Unit 1	Influent Unit 2	Effluent Unit 1	Effluent Unit 2	Units
Initial	1,900,000	1,900,000	13,000	30,000	#/mL
4th Cycle	2,100,000	2,100,000	5,700	15,000	#/mL
50% Flow Decrease	1,700,000	1,700,000	5,500	9,100	#/mL

Avg. Influent Conc.: 1,900,000 #/mL

Avg. Effluent Conc.: 13,050 #/mL

Average % Reduction: 99.3 %

Lowest % Reduction: 98.4 %

Max. Effluent Conc.: 30,000 #/mL

Particulate Reduction: PASS

Sample Point	Flow Rate Unit 1 (gpm)	Flow Rate Unit 2 (gpm)	Pressure (psi)
Initial	*0.45	*0.45	60.9
4th Cycle	0.45	0.45	60.7
50% Flow Decrease	0.25	0.25	61.1

Comments

Testing and analysis were conducted at BCS Laboratories, Inc with 3-minute cycles, test duration of 16 hours per day, and a non-restricted flow rate. The following conditioning was performed: flushed test units with test water for 5 minutes.

*The starting flow rate for each unit for the Initial sample point was 0.5 gpm.

Challenge Test Water was prepared using ISO 12103-1, A2 fine test dust and passed through the units. Samples of units' influent and effluent were collected at the indicated sample points as per the method. All collected samples were analyzed in duplicates as per standard laboratory operating procedure. Particles were enumerated using Beckman Coulter MS-4 particle counter using a 20-micron aperture.

Total particle count from 0-80 μm :

Initial: 7,945,000 particles/mL

4th Cycle: 8,257,000 particles/mL

50% Flow Decrease: 6,988,000 particles/mL

NSF/ANSI 42

Test Water Influent Characteristics Summary

Acceptance Criteria:

Temperature (°C):	17 - 23
pH [EPA Method SM4500HB]:	7.0 - 8.0
TDS (mg/L) [SM2540]:	200 - 500
Hardness (mg/L as CaCO ₃) [SM2340C]:	≤ 170
Turbidity (NTU) [SM2130B] (Prior to test dust addition):	≤ 1
Turbidity (NTU) [SM2130B] (After test dust addition):	No criteria

Test Unit Information:

Manufacturer:	Rama Pure Water Pvt Ltd
Model:	S9P
Test Unit Number:	7911.1801C.01-02
Contaminant:	Nominal Particulate (Class I)

Sample Point	pH	TDS (mg/L)	Hardness (as mg/L CaCO ₃)	Turbidity (NTU) (Prior to Test Dust Addition)	Turbidity (NTU) (After Test Dust Addition)	Temperature (°C):
Initial	7.4	209.6	146	0.3	10.9	19.4
4th Cycle	7.5	212.6	139	0.2	10.4	19.6
50% Flow Decrease	7.3	224.4	133	0.4	11.3	19.3

Manufacturer: Rama Pure Water Pvt Ltd

Model: S9P

Test Unit Number(s): 7911.1801C.01-02



March 5, 2021

Lead Content Report

Rama Pure Water Pvt Ltd
196 East Coast Road
Injambakkam Chennai 600115
India

Dear,

Thank you for having your product tested with the Water Quality Association. We appreciate your business and look forward to working with you on future testing and certification projects. Please see the enclosed analysis report for a review of the data.

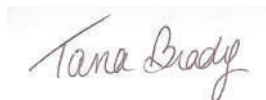
The testing is stated to be "Complete" as the test results are pending further review by the Water Quality Association Certification Department at the time of report issuance.

Should you have any questions or need additional information, please feel free to contact your Project Leader.

Report Number:	20210113.01.7911.2101L.01.1801C.V1
Certification Project #:	7911.1801C
Test Unit:	7911.2101L.01
Product Standard:	NSF/ANSI 372 – 2016 version: Drinking Water System Components – Lead Content

Test Results:	COMPLETE
----------------------	-----------------

Report Reviewed By:



Tana Brady, Product Testing Laboratory Manager

3/5/2021
Date

All data for the associated quality control (QC) met EPA, method, product standard, or internal laboratory specifications except where noted in the comments. This report may not be reproduced, except in whole, without the written approval of WQA. The test results relate only to the specific items tested and do not indicate the product is certified by WQA or can display the Gold Seal Mark. All samples were tested/collected and analyzed within the criteria specified in the test procedure and WQA SOP.09006 unless otherwise noted.



Lead Content Report
20210113.01.7911.2101L.01.1801C.V1

4151 Naperville Road
Lisle, IL 60532-3696 USA
Phone: 630-505-0160
www.wqa.org

NSF/ANSI 372 – 2016 version: Drinking Water System Components – Lead Content

Company: Rama Pure Water Pvt Ltd

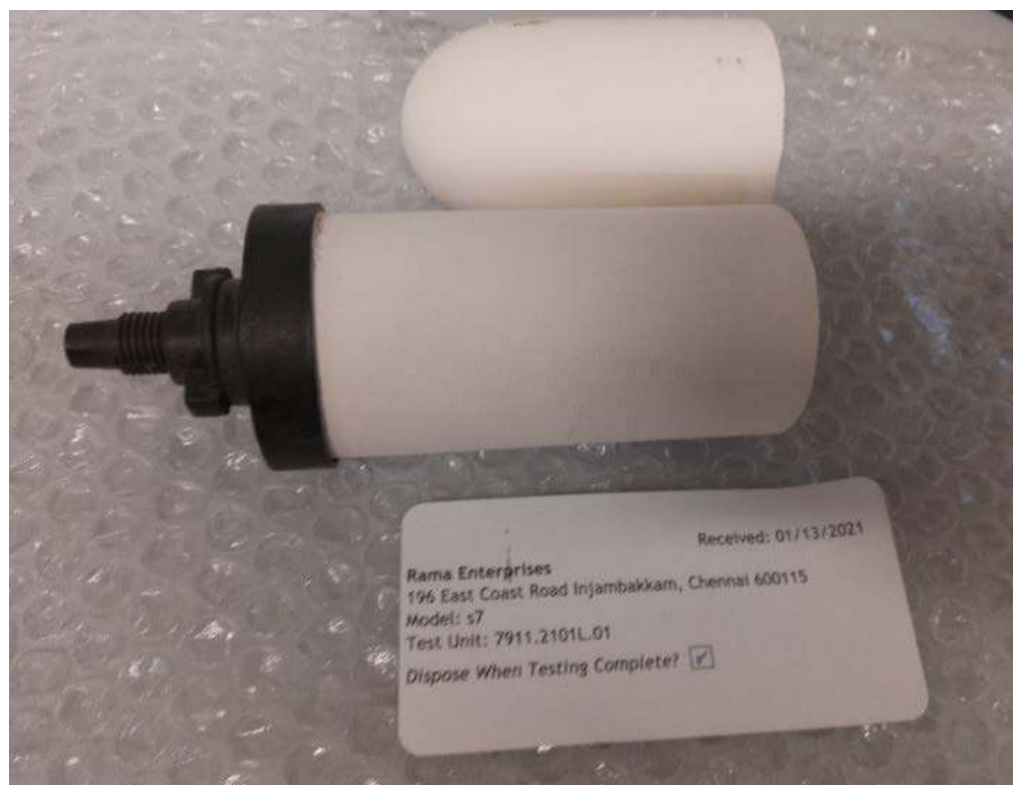
Test Unit: 7911.2101L.01

Test Unit Number	Part Description	Part Number	Material Type	Complete Material Trade Name or Subassembly Model Number	Supplier / Distributor	Lead Result (%)
7911.2101L.01	N/A	N/A	Various	S7	Rama Enterprises	< 0.0500

Company: Rama Pure Water Pvt Ltd
Test Unit: 7911.2101L.01

Laboratories

Product Testing: XRF Scans	Water Quality Association Product Testing Laboratory
----------------------------	--





CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, 2nd Floor, New No. 2/9, Old No. 21 Abdul Razack Street, Saidapet, Chennai - 600 015.

Phone : +91 44 2433 0382 to 85 | E-mail : info@cvrlabs.com | Web : www.cvrlabs.com

Certified by ISO 9001:2008, Recognised by MOEF and OHSAS

TEST REPORT

Page:1 of 4

Issued To :

Rama Exporters

Old No.53, New No.92 Royapettah High Road, Mylapore ,

Chennai - 600 004

SUBMITTED SAMPLE

Date of report : 25/08/2016

Received on : 05/07/2016

Commenced on : 05/07/2016

Completed on : 24/08/2016

Report Number : 16070024.01

Sample Description : Filter Sample

Sample Identification : Efficiency Study

Customer Reference : Test Request form dated : 05/07/2016

S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
I	ORGANOCHLORINE PESTICIDE RESIDUE :							
1.	Aldrin	EPA 3545 A	BDL	BDL	100	13.586	13.586	77.5
2.	Alpha BHC	EPA 3545 A	BDL	BDL	100	ND	ND	100
3.	Beta BHC	EPA 3545 A	BDL	BDL	100	ND	ND	100
4.	Gamma BHC	EPA 3545 A	BDL	BDL	100	ND	ND	100
5.	Delta BHC	EPA 3545 A	BDL	BDL	100	ND	ND	100
6.	Alpha Chlordane	EPA 3545 A	BDL	BDL	100	ND	ND	100
7.	Gamma Chlordane	EPA 3545 A	BDL	BDL	100	8.975	8.975	91.025
8.	4,4 -DDD	EPA 3545 A	BDL	BDL	100	ND	ND	100
9.	4,4 -DDE	EPA 3545 A	BDL	BDL	100	ND	ND	100
10.	4,4 -DDT	EPA 3545 A	BDL	BDL	100	ND	ND	100
11.	Dieldrin	EPA 3545 A	BDL	BDL	100	ND	ND	100
12.	Endosulfan I	EPA 3545 A	BDL	BDL	100	ND	ND	100
13.	Endosulfan II	EPA 3545 A	BDL	BDL	100	ND	ND	100
14.	Endosulfan Sulfate	EPA 3545 A	BDL	BDL	100	ND	ND	100
15.	Endrin,	EPA 3545 A	BDL	BDL	100	ND	ND	100
16.	Endrin aldehyde	EPA 3545 A	BDL	BDL	100	ND	ND	100

V. Mayyappa
Verified By

For CVR Labs Pvt Ltd

Authorised Signatory

D.C. Benjamin
Lab Manager

Terms and Conditions:

- The test results furnished relate only to the items tested.
- The test report shall not be reproduced except in full, without written approved of the laboratory
- The tested items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, 2nd Floor, New No. 2/9, Old No. 21 Abdul Razack Street, Saidapet, Chennai - 600 015.

Phone : +91 44 2433 0382 to 85 | E-mail : info@cvrlabs.com | Web : www.cvrlabs.com

Certified by ISO 9001:2008, Recognised by MOEF and OHSAS

TEST REPORT

16070024.01

Page:2 of 4

S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
17.	Endrin Ketone	EPA 3545 A	BDL	BDL	100	14.633	14.633	85.367
18.	Heptachlor	EPA 3545 A	BDL	2.328	100	5.241	2.913	97.087
19.	Heptachlor Epoxide	EPA 3545 A	BDL	BDL	100	12.146	12.146	87.854
20.	Methoxychlor	EPA 3545 A	BDL	BDL	100	ND	ND	100
II	ORGANOPHOSPHORUS PESTICIDES:							
1.	Azinphos -Methyl	EPA 3545 A	BDL	BDL	100	ND	ND	100
2.	Bolstar	EPA 3545 A	BDL	BDL	100	ND	ND	100
3.	Chlorpyrifos	EPA 3545 A	BDL	BDL	100	ND	ND	100
4.	Coumaphos	EPA 3545 A	BDL	BDL	100	ND	ND	100
5.	Diazinon	EPA 3545 A	BDL	BDL	100	ND	ND	100
6.	Disulfoton	EPA 3545 A	BDL	BDL	100	ND	ND	100
7.	Fensulfotion	EPA 3545 A	BDL	BDL	100	ND	ND	100
8.	Fenthion	EPA 3545 A	BDL	BDL	100	ND	ND	100
9.	Methyl Parathion	EPA 3545 A	BDL	BDL	100	ND	ND	100
10.	Mevinphos	EPA 3545 A	BDL	BDL	100	ND	ND	100
11.	Naled	EPA 3545 A	BDL	BDL	100	ND	ND	100
12.	Ronnel	EPA 3545 A	BDL	BDL	100	ND	ND	100
13.	Stirophos	EPA 3545 A	BDL	BDL	100	ND	ND	100
14.	Tokuthion	EPA 3545 A	BDL	BDL	100	ND	ND	100
15.	Trichloronate	EPA 3545 A	BDL	BDL	100	ND	ND	100
III	VOLATILE ORGANIC COMPOUNDS (VOC):							
1.	1,1,1,2-Tetrachloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
2.	1,1,1-Trichloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
3.	1,1,2,2-Tetrachloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
4.	1,1,2-Trichloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
5.	1,1-Dichloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
6.	1,1 Dichloro ethylene	EPA 5030 C	BDL	BDL	20	ND	ND	100
7.	1,1-Dichloropropene	EPA 5030 C	BDL	BDL	20	ND	ND	100
8.	1,2,3-trichlorobenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
9.	1,2,3-Trichloropropane	EPA 5030 C	BDL	BDL	20	ND	ND	100

V. Magesh
Verified By

For CVR Labs Pvt Ltd
Authorised Signatory

D.C. Benjamin
Lab Manager

Terms and Conditions:

- The test results furnished relate only to the items tested.
- The test report shall not be reproduced except in full, without written approved of the laboratory
- The tested items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, 2nd Floor, New No. 2/9, Old No. 21 Abdul Razack Street, Saidapet, Chennai - 600 015.

Phone : +91 44 2433 0382 to 85 | E-mail : info@cvrlabs.com | Web : www.cvrlabs.com

Certified by ISO 9001:2008, Recognised by MOEF and OHSAS

TEST REPORT

Page:3 of 4

16070024.01

S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
10.	1,2,4-Trichlorobenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
11.	1,2,4-Trimethylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
12.	1,2-Dibromo-3-chloropropane	EPA 5030 C	BDL	BDL	20	ND	ND	100
13.	1,2-Dibromoethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
14.	1,2-Dichlorobenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
15.	1,2-Dichloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
16.	1,2-Dichloropropane	EPA 3545 A	BDL	BDL	100	ND	ND	100
17.	1,3,5-Trimethylbenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
18.	1,3-Dichlorobenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
19.	1,3-Dichloropropane	EPA 3545 A	BDL	BDL	100	ND	ND	100
20.	1,4 Dichlorobenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
21.	2,2-Dichloropropane	EPA 3545 A	BDL	BDL	100	ND	ND	100
22.	2-Chlorotoluene	EPA 3545 A	BDL	BDL	100	ND	ND	100
23.	4-Chlorotoluene	EPA 3545 A	BDL	BDL	100	ND	ND	100
24.	4-Isopropyltoluene	EPA 3545 A	BDL	BDL	100	ND	ND	100
25.	Benzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
26.	Bromobenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
27.	Bromochloromethane	EPA 3545 A	BDL	BDL	100	ND	ND	100
28.	Bromodichloromethane	EPA 3545 A	BDL	BDL	100	ND	ND	100
29.	Bromoform	EPA 3545 A	BDL	BDL	100	ND	ND	100
30.	Bromomethane	EPA 3545 A	BDL	BDL	100	ND	ND	100
31.	Carbontetrachloride	EPA 5030 C	BDL	BDL	20	ND	ND	100
32.	Chlorobenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
33.	Chloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
34.	Chloroform	EPA 5030 C	BDL	BDL	20	ND	ND	100
35.	Chloromethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
36.	Cis-1,2-Dichloroethene	EPA 5030 C	BDL	BDL	20	ND	ND	100
37.	cis-1,3-Dichloropropene	EPA 5030 C	BDL	BDL	20	ND	ND	100
38.	Dibromochloromethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
39.	Dibromomethane	EPA 5030 C	BDL	BDL	20	ND	ND	100

V. Muppala
Verified By

For CVR Labs Pvt. Ltd.
Authorised Signatory

D.C. Benjamin
Lab Manager

Terms and Conditions:

- The test results furnished relate only to the items tested.
- The test report shall not be reproduced except in full, without written approved of the laboratory
- The tested items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, 2nd Floor, New No. 2/9, Old No. 21 Abdul Razack Street, Saidapet, Chennai - 600 015.

Phone : +91 44 2433 0382 to 85 | E-mail : info@cvrlabs.com | Web : www.cvrlabs.com

Certified by ISO 9001:2008, Recognised by MOEF and OHSAS

TEST REPORT

16070024.01

Page:4 of 4

S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
40	Dichlorodifluoromethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
41	Ethylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
42	Isopropylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
43	m & p-xylenes	EPA 5030 C	BDL	BDL	20	ND	ND	100
44	o-Xylene	EPA 5030 C	BDL	BDL	20	ND	ND	100
45	Methyl Ethyl Ketone	EPA 5030 C	BDL	BDL	20	ND	ND	100
46	Methyl Chloride	EPA 5030 C	BDL	BDL	20	ND	ND	100
47	n-Butylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
48	n-Propylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
49	sec-Butylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
50	Styrene	EPA 5030 C	BDL	BDL	20	ND	ND	100
51	t-butylbenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
52	Tetrachloroethene	EPA 3545 A	BDL	BDL	100	ND	ND	100
53	Toluene	EPA 3545 A	BDL	BDL	100	ND	ND	100
54	Trans-1,2-Dichloroethene	EPA 3545 A	BDL	BDL	100	ND	ND	100
55	trans-1,3-Dichloropropene	EPA 3545 A	BDL	BDL	100	ND	ND	100
56	Napthalene	EPA 3545 A	BDL	BDL	100	ND	ND	100
57	Trichloro ethylene	EPA 3545 A	BDL	BDL	100	ND	ND	100
58	Trichlorofluoromethane	EPA 3545 A	BDL	BDL	100	ND	ND	100
59	Vinyl Chloride	EPA 3545 A	BDL	BDL	100	ND	ND	100
60	Xylene	EPA 3545 A	BDL	BDL	100	ND	ND	100
IV	Heavy Metals :							
1.	Arsenic	APHA 22 nd EDI : 2012	BDL	BDL	16.13	10.1	ND	37.38
2.	Cadmium	APHA 22 nd EDI : 2012	BDL	BDL	15.61	3.481	ND	77.70
3.	Chromium	APHA 22 nd EDI : 2012	BDL	BDL	30.71	ND	ND	100
4.	Lead	APHA 22 nd EDI : 2012	BDL	BDL	23.53	ND	ND	100
5.	Nickel	APHA 22 nd EDI : 2012	BDL	BDL	30.81	1.007	ND	96.73
6.	Selenium	APHA 22 nd EDI : 2012	BDL	BDL	12.23	2.818	ND	76.96

**** END OF REPORT ****

For CVR Labs (Pvt) Ltd
Authorized Signatory

D.C. Benjamin
Lab Manager

Terms and Conditions:

- The test results furnished relate only to the items tested.
- The test report shall not be reproduced except in full, without written approved of the laboratory
- The tested items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2677096/2677070

E-mail: ems@auroville.org.in

Test Report

Customer name: Rama Pure Water Pvt.
Ltd.

Nature of sample: Water

Sample ID: Spirit Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

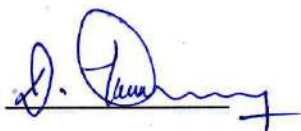
Sample collected: By customer

Lab ID: 58/1

Lead removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg and pH 6.6. Water with 1 ppm lead (Pb) was prepared and passed through filter. At outlet of filter sample was collected and analyzed for lead.

S.No.	Parameters	Result, ppm	Removal %	Method of testing
1.	Pb	<0.01	100	AAS method - 3110 B, APHA 23 rd 2017

Analyst



Lab executive



Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2677096/2677070

E-mail: ems@auroville.org.in

Test Report

Customer name: Rama Enterprises
Nature of sample: RAMA spirit filters
Sample ID: Mentioned Below

Sample received: 18/09/19
Analysis completed: 01/10/19
Sample collected: By customer
Lab ID: 26

Objective: To check the efficiency of RAMA spirit filters to purify water from bacterial contamination

Protocol :

All RAMA spirit filters were passed 20 Litres of tap water having TDS 190 mg/l, pH 6.8. The flow rate was checked and tap water was spiked with E.coli culture. RAMA spirit filters were passed through spiked E.coli culture water and samples were collected and analyzed for E.coli test.

Method of testing: E.coli tested as per the specification laid down in ISO 9308 - 1:2014

Results Batch 1:

S.No	Sample ID	Flow Rate (lit/hour)	E.coli	
			CFU/100 ml	% of removal
1	Control	-	2 600 000	-
2	F1	1.2	0	100
3	F2	1.2	0	100
4	F3	1.3	0	100
5	F4	1.2	0	100
6	F5	1.3	0	100

Batch 2:

S.No	Sample ID	Flow Rate (lit/hour)	E.coli	
			CFU/100 ml	% of removal
1	Control	-	1 740 000	-
2	F6	1.0	0	100
3	F7	0.9	0	100
4	F8	0.9	0	100
5	F9	1.1	0	100
6	F10	1.1	0	100

* ΔP (Distance from the water level to the outlet of filter) = 30 cm

Analyst A. Renthina

Lab executive [Signature]

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2964096/09786620685

E-mail: ems@auroville.org.in

Test Report

Customer name: Rama Enterprises

Nature of sample: RAMA Spirit

Ceramic Candle - S7GAC

Sample ID: Batch N 0210614 (N1)
& Batch 0210111 (N2)

Sample received: 13/07/2021

Analysis completed: 15/07/2021

Sample collected: by lab person

Lab ID: 191

Work done:

Pure tap water (Turbidity 0.22 NTU) with water head 25 cm was pass through the candles.

Flow rate:

Candle N1 - 2.1 l/h

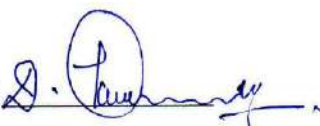
Candle N 2 - 2.0 h/h

Flow rate for the candles with water having turbidity 25 and 50 NTU in the Table.

Turbidity for water passed the filter and having innitial 50 NTU in the Table.

Sl. No.	Sample ID	Results		
		Turbidity 25 NTU	Turbidity 50 NTU*	
		Flow rate	Flow rate	Turbidity after passing
1.	Candle 1	1.89 L/hr.	1.82 L/hr.	0.65
2.	Candle 2	1.78 L/hr.	1.75 L/hr.	0.42

*Note: 20 litres of water passed through the filter before samples were collected and water was tested for Turbidity.

Analyst 

Lab executive 

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2677096/2677070

E-mail: ems@auroville.org.in

Test Report

Customer name: Rama Pure Water Pvt.
Ltd.

Nature of sample: Water

Sample ID: Spirit Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

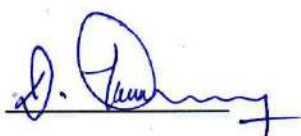
Sample collected: By customer

Lab ID: 58/2

Chlorine removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg and pH 6.6 after conditioning 1 ppm chlorine spiked into the water. Water passed the filter, sample was collected and analyzed for chlorine.

S.No.	Parameter	Result, ppm	Removal %	Method of testing
1.	Free Chlorine	< 0.1	99.9	DPD colorimetric method - 4500- Cl.G.2 APHA 23 rd 2017

Analyst



Lab executive



Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2677096/2677070

E-mail: ems@auroville.org.in

Test Report

Customer name: Rama Pure Water Pvt.
Ltd.

Nature of sample: Water

Sample ID: Spirit Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

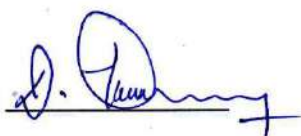
Sample collected: By customer

Lab ID: 58/3

Bacteria and virus removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg/and pH 6.6 after conditioning E.coli and MS2 phage spiked water were passed, sample was collected and analyzed.

S. No	Sample ID	Flow Rate (lit/hour)	E.coli		MS2 Phage	
			Method IS-15185:2002/ISO - 9308-1:2000		Method EPA: 1602	
			CFU/100 ml	% of removal	PFU/100 ml	% of Removal
1	Control	-	2 400 000	-	1 100 000	-
2	Sample	1.5	8	99.9997	400	99.96

Analyst



Lab executive

