



# EcoCare Technologies Private Limited

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# About Us

EcoCare provides customized solutions within the chemicals industry with a focus on hygiene and Water.

## *Industries we are in:*

**Brewing and wineries,  
Food Processing,  
Fresh Produce,  
Poultry,**

**Dairy,  
Soft Drinks,  
Meat,  
Kitchen Cleaning and Sanitization.**

We are an ISO 9001:2015, GMP, and StartupIndia Certified Company.

**#startupindia**



IS/2010EE/2385



GM/2010ED/2598

# ***Experience***

Ecocare is team of vast experience people, who have worked in Food, Beverage and dairy industries , helped them to achieve their standards and trained customers to maintain.

The founders of EcoCare are

**Arvind Verma - Chemical Engineer from HBTI-Kanpur and have worked with Various MNC companies in Hygiene and water.**

**Monika Verma - MSC (Bio Tech) from IIT Roorkee and have worked with Various Research and Development companies.**

EcoCare is closely associated with food & beverage industries to fulfil their cleaning & sanitization needs to make their products safe for consumer and help them to save resources, like water, energy, cleaning time and chemicals. We have around 21 years of experience in food safety management be it, dealing with farms, fisheries, food processors, food services or retail, Our experienced team can design a “user-friendly” solution which will minimize risk to your business and save time, money and stress.

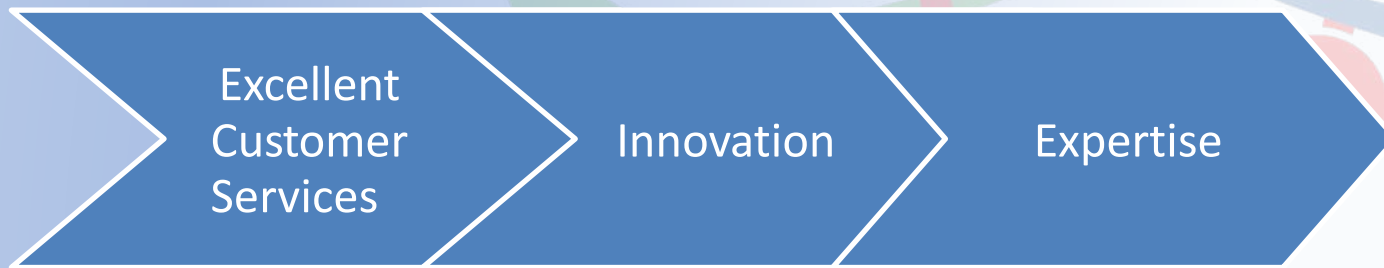
# ***Our Vision***

We at EcoCare believe in bringing sustainable solutions to our customers through Niche Technology, Rich Industries experience and engineering expertise by delivering tailor made solutions to customer centric problems in Food, Beverage and Dairy Industries.

At **EcoCare**, we are guided every day by mission statement: “Support our customers and people to excel in their field / sector / industry.” Our mission statement is our way of life, and it means that we are delivering operational excellence in every corner of our business, meeting or exceeding our commitments to the many constituencies we serve.



*“Support our customers and industries to excel in their Field/sector/Industry.”*



# ***Our Core Value***

- ❖ **Partners not Vendors.**
- ❖ **Customers come first.**
- ❖ **Trading knowledge-Independent and Unbiased.**
- ❖ **Service matters the most.**
- ❖ **Being transparent and open create trust.**
- ❖ **Do it well or not at all.**
- ❖ ***Integrity***

***“Nurturing good values for better future”***





# ***Our Products & Services***

# Products

*At EcoCare's we provide customised solution for cleaning and hygiene as per the industry and customer's requirement, that's why we have complete range of cleaning and hygiene be it chemicals, equipment's, mops & tools that fits and suits every industry need.*

Antifoam for Potato Processing

Dairy Hygiene Management

RO Antiscalants

RO Cleaners

Waterless Urinals

Cooling Tower Chemicals

Color Coded Mops & Tools

Water Saving Nozzles



# ***Antifoam***

Foam control is of considerable importance in the potato processing industry and in industrial fermentation process. A variety of surface active compounds are present in the steps involved in the production and processing of potatoes. These include humic acids, proteins, starch, pectins and saponins. The generation of unwanted foams occupy considerable portion of the process vessel and therefore effectively reduce the size of these vessels and lower the overall output. A considerable amount of finished product like chips, fries can be lost if foam is removed manually.



***Without Antifoam PA 536***



***With Antifoam PA 536***



# Dairy Hygiene Management Program

## Training:

EcoCare team with the support of Route officers plan for a training program for the Center In charge and Contract laborers region wise.

## Efficacy and Consumption Check:

Cleaning efficacy Feedback  
- Visual  
- ATP  
Chemical consumption data for each center



## Tools:

- Measurement Equipment's
- Hand operated dosing pumps
- Documentation including Chemical safety data sheets

## SOP:

- Developed in local language and validated from the Procurement team
- Laminated and displayed in all centers

EcoCare  
Roll out  
Program

# ***RO Antiscalants – SPE0111***



SPE 0111 is NSF Approved Antiscalant. SPE0111 was developed in order to effectively Control Scale formation under a wide range of RO operational conditions and to ensure compliance with local environmental legislation. SPE 0111 is a multifunctional antiscalant for Reverse Osmosis (RO), Nanofiltration (NF) and Electro-dialysis Reversal (EDR) systems. It is highly effective in preventing calcium carbonate scale on membranes surface. Besides, its excellent calcium carbonates scale inhibition SPE 0111 effectively controls calcium sulphate, calcium fluoride and metal oxides scale. SPE 0111 has approvals from major membrane manufactures. SPE0111 is certified to ANSI/NSF Standard 60 for the production of portable water by Reverse Osmosis, nanofiltration and EDR Systems.



# EcoRefresh Waterless Urinals

*The Simple Cleaner... Just Spray and Walk Away!*

Eco Refresh is a probiotic liquid consisting of facultative microbes and stable enzymes that are able to survive both aerobic and anaerobic environments, Once applied they convert the anaerobic conditions to aerobic, treat the root cause of foul odor and are the best known to rid smell. It contains microbial inoculant consisting of live probiotic bacteria that are 100% organic. Once Eco Refresh is sprayed on to the surface, these bacteria metabolize (eat away) the biofilm and organic deposits, leaving the surfaces clean and smell free. An odor eliminator, it solves the problem from its roots - No Biofilm, No Bad Smells.

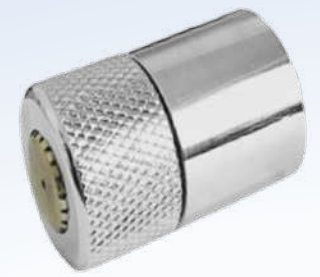


## Benefits

- Saves enormous amount of fresh water/re-cycled water.
- Bio-degradable and non toxic – foot print of harmful compounds nil.
- Reduces emission of green house gases.
- Zero Post Treatment residue & noxious gas emissions.
- Better odor control in washroom since the method of cleaning involves attacking root cause and not the symptom compared to other products in the market which mask the odor.
- Reduced dilution requirements as compared to other products.
- Keeps the pipe line clean.
- **EcoRefresh helps you save approximately 3,60,000 Litres of water every year\*.**



# Water Saving Nozzle – Dual Mode



We pledge to save water, in that we took a step forward and introduce water saving nozzle. Cost effective solution to save water, same tap just plug our water saving nozzles and save upto 90% of water.



**Foam Flow**  
6-12 LPM



**Spray Flow-70-80%**  
1-2.5LPM



**Mist Flow-95% Saving**  
200-500LPM

Current Normal Tap	Water Saving Nozzle (Available on Amazon)	EcoCare's WSN	Remarks
Flow Rate: 8-12 Ltrs/Min (depends on water pressure)	Flow Rate: 5 to 8 Ltr/min (Neoperl) 6-8 Ltr/min (Eco360)	Flow Rate: 1 to 3.5 Ltr/Min	EcoCare nozzles saved 200% more water compare to other nozzles available.
Material: Brass, ABS	Material: ABS	Material: Brass	More Durable and life. ABS becomes brittle after few months
	Life: Approx. 6 Months	Shelf Life: 1-2 Year	More Money Saving
	Hard to clean and maintain	Easy to clean and maintain	It can be cleaned easily.
	Weight: 14.51 Grams (Eco365) 2.53 Grams	Weight: 73.18 Grams	Heavy and Durable

## QUICK RETURN ON INVESTMENT

The three largest uses of water in office buildings are restrooms, heating and cooling, and landscaping. Where restrooms accounts for 37% of the business total water use and faucets alone make up for 17%.

## Huge Opportunity-

For 100 employees, around 4,50,000 ltr water can be saved only from washroom. Similarly- Huge water can be saved from kitchen, while washing utensils and vegetables.

# Foam Cleaning Machine

EcoCare's Foam cleaning is recognized as an effective method for removing oil and heavy soils from all types of surfaces. It helps maintain cleanliness during transportation, & finds its application in dairy, food processing & beverage industries.

## Industries

Process Food

Beverages

Dairy

Seafoods

Smoke Houses

Poultry

## Application Areas:

Tanks

Floor

Fillers

Spiral Conveyor

Food Contact Surfaces

Equipments

Pneumatic  
Operated

Effective  
Cleaning &  
Sanitization

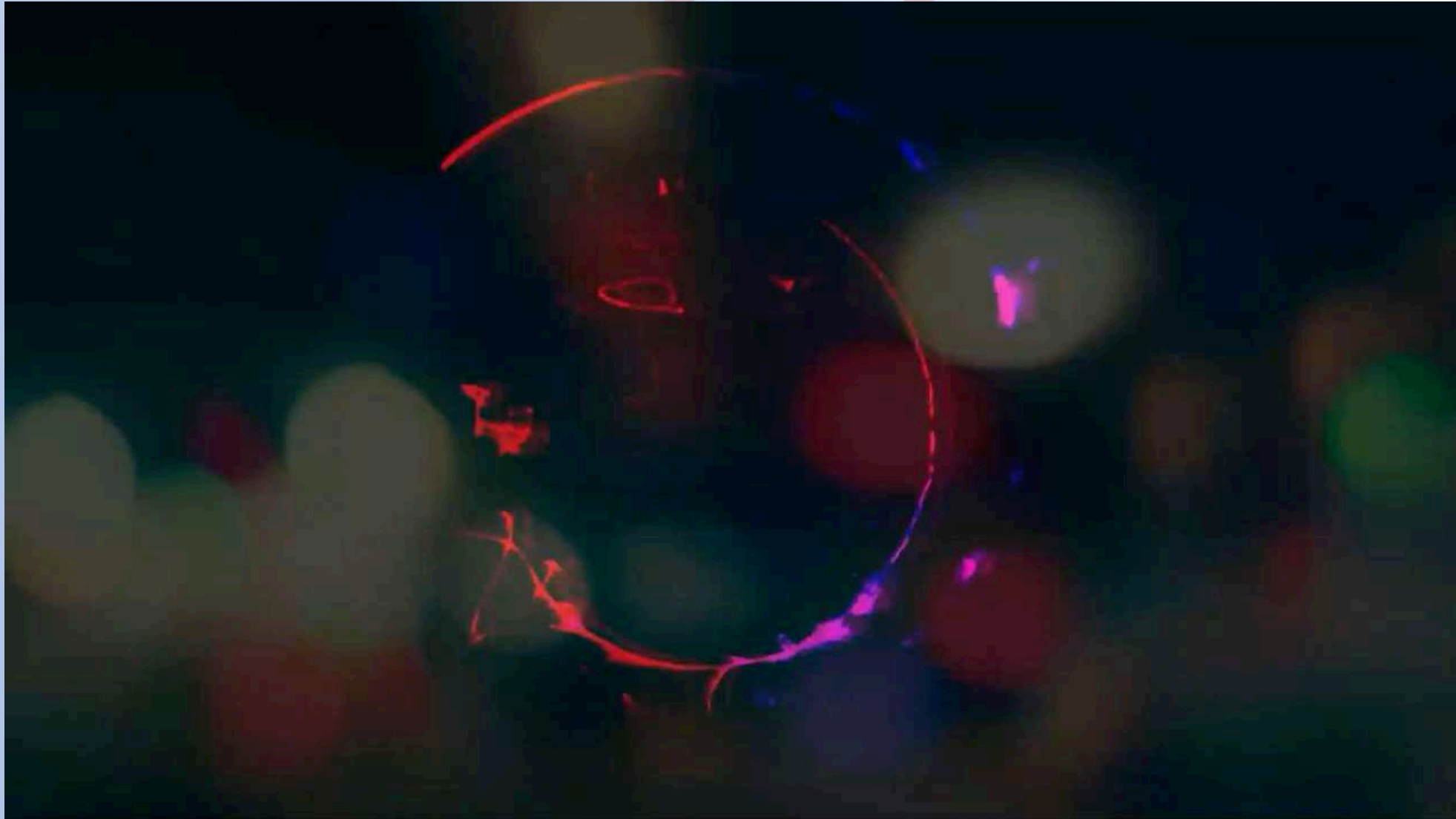
Save  
Cleaning  
Time

Reaches  
inaccessible  
Areas

Reduce  
Labour Cost



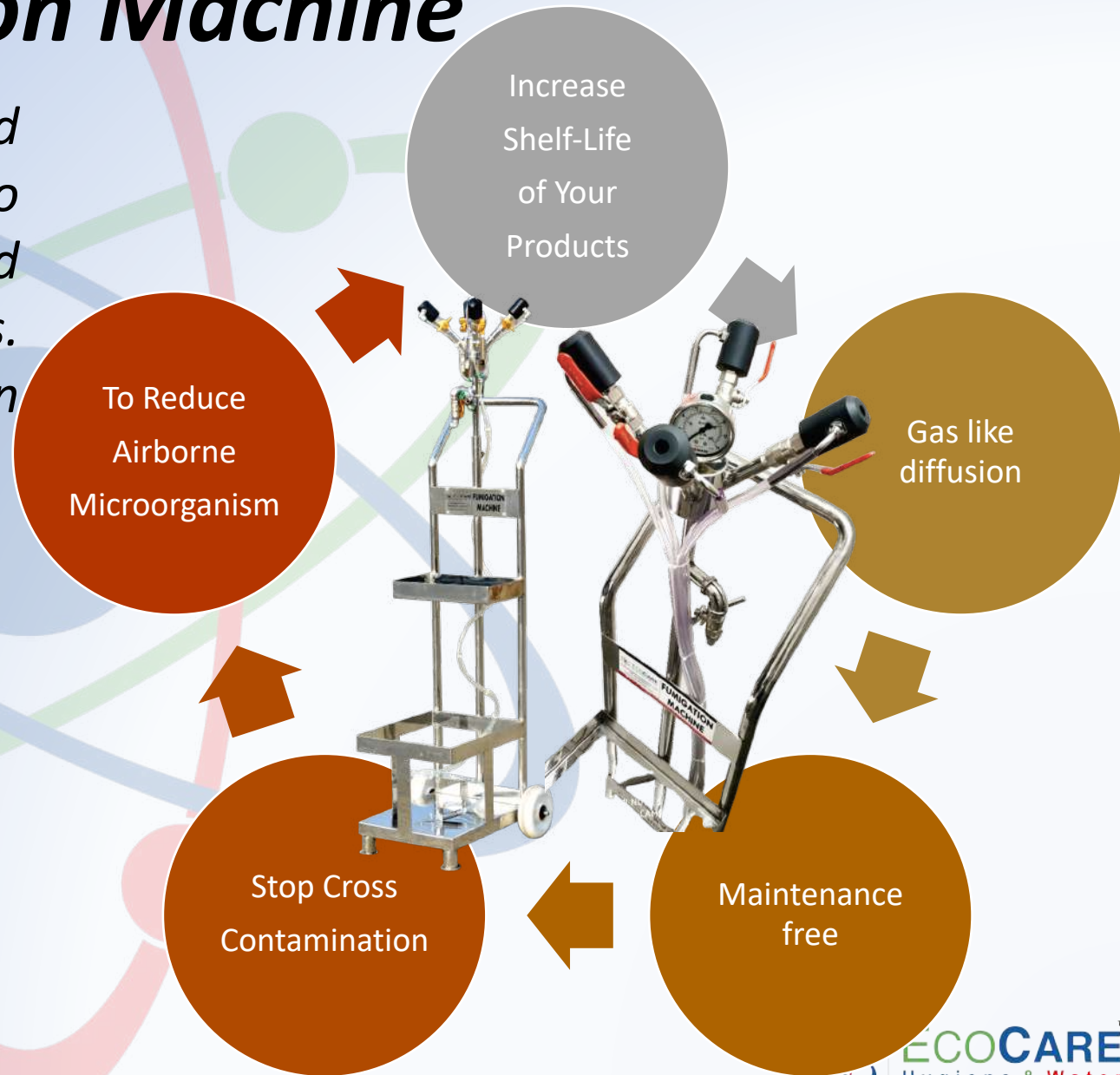
# *Foam Cleaning Machine*



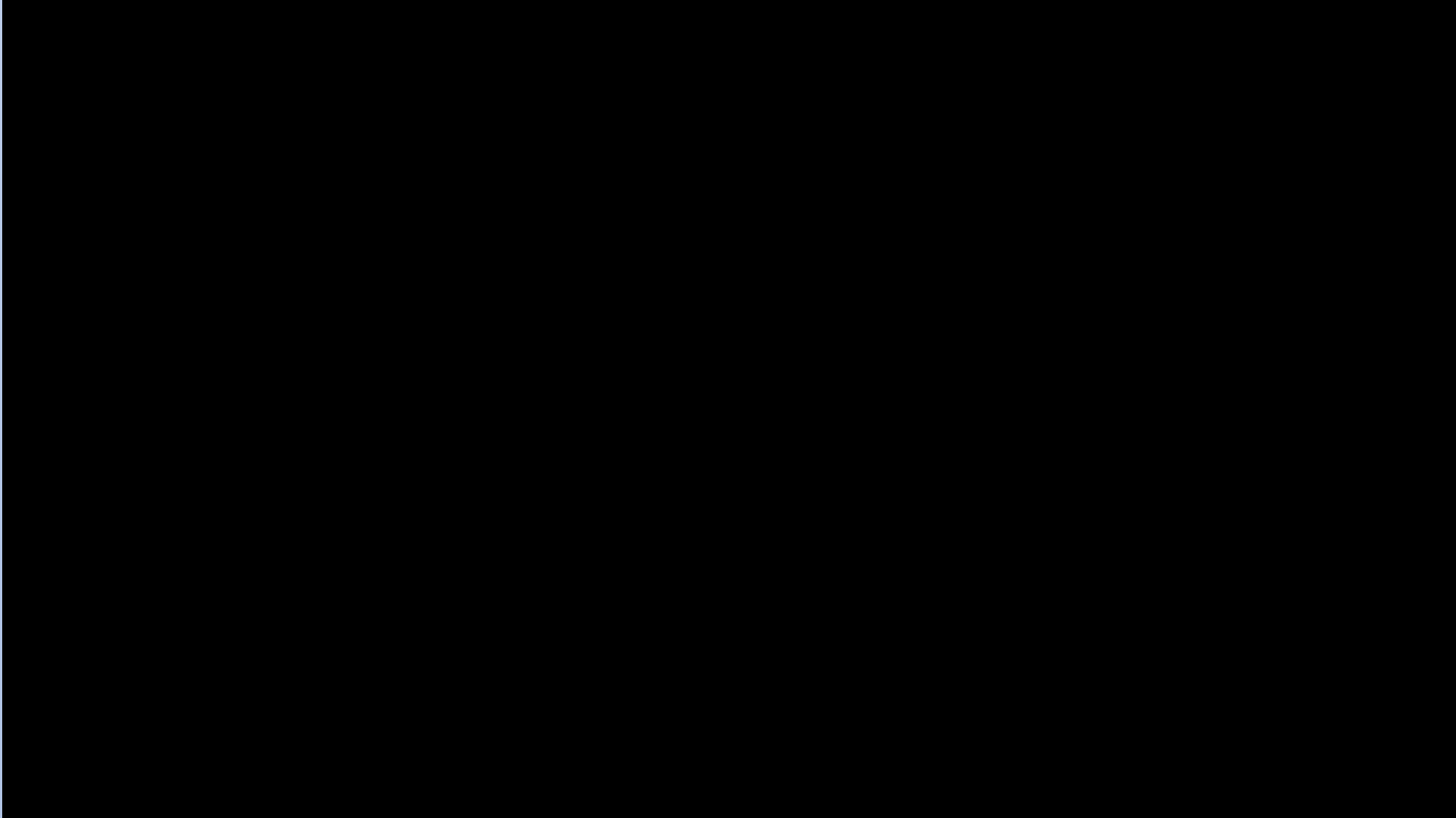
# Fumigation Machine

*EcoCare's Fumigation Machine is recognized as an effective method for fumigation to increase the self life of the products and prevent cross contamination to the products. Especially designed for the larger areas in complete SS304 MOC.*

- Industries
- Process Food
- Beverages
- Dairy
- Seafoods
- Smoke Houses
- Poultry



# *Fumigation Machine*



# Equipment's

Antifoam Dosing Pump

Hygiene Systems

*Floor Cleaning Machines*

Industrial Vacuum Machines

Pressure Jet Machines

*Dispensers*

Poultry

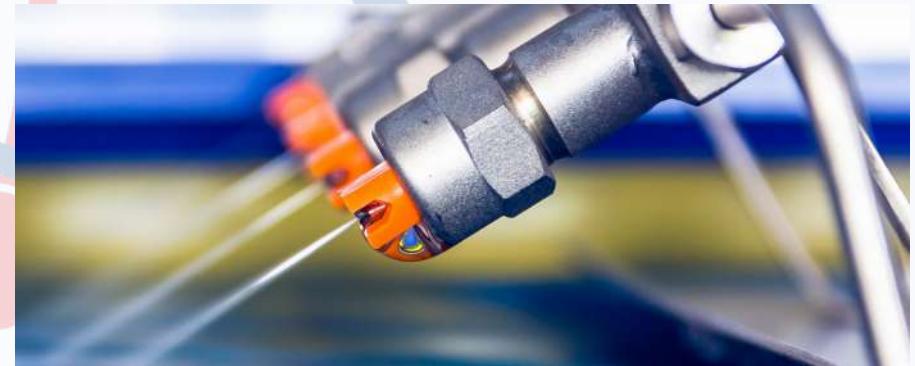


# *Project Installations*

**WTP, RO**



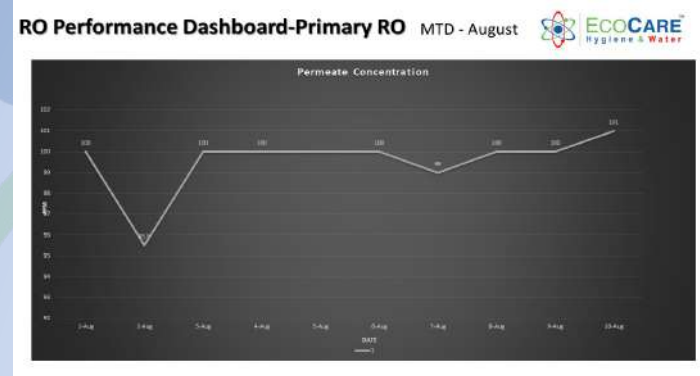
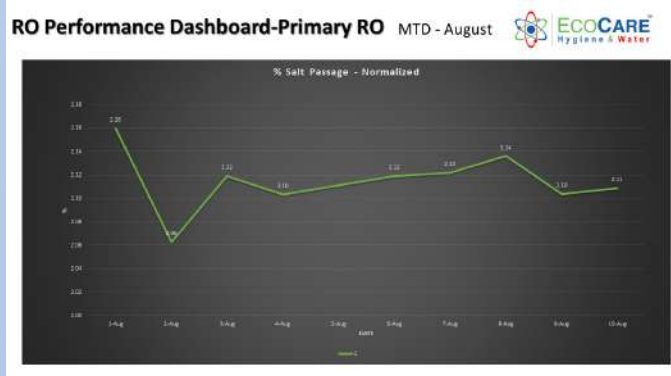
**Conveyor  
Lubrication Line**



# WTP, RO

# Bisleri

Our esteemed client Bisleri, we take care of there WTP and RO for PAN India. We help them in installation WTP, RO, and Dosing Systems, improving recoveries, RO Cleaning & Sanitization, Saving Cost, Educating the RO Operators and other concern persons.



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Tel: 0120-4290941, 9899707778  
sales@ecocaretech.com

Customer Name: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Location: \_\_\_\_\_  
ADMC: YES / NO

Date: \_\_\_\_\_  
Media: Yes

Raw Water Tank		Capacity	RT	WTP		ppm	ph
IN	OUT	kg/dm <sup>3</sup>	ACF Pressure	IN	OUT	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>
Chlorine	ppm	ppm	Chlorine	ppm	ppm	ppm	ppm
Microon Filter	Back Washed date		RO cleaning/Sanitization	Date			
No. of Membranes Housing		Stage-1	Stage-2	Stage-3	Recovery	Flow Rate	ppm
No. of Membranes							

# Appreciation from customer

# Bisleri

The screenshot shows a Gmail interface with the following details:

- Search bar:** from:(sukanta.gupta@bisleri.co.in) subject:(RO recovery) garg
- Left sidebar:** Compose, Inbox (512), Starred, Snoozed, Sent, Drafts (5), Abhik, DVS, Inbox/Amazon (79), EcoCare (+).
- Email subject:** Unique Case study ... Business Improvement done by EcoCare ... DRV Visit and recommendation report on RO recovery issue
- Sender:** Sukanta Das Gupta <sukanta.gupta@bisleri.co.in> (Thu, Feb 7, 5:36 PM)
- Body text:**

Dear EcoCare Team

I found this is one of the best 'value added' addition in business w.r.t. the following:

  1. **Reduction in Feed pressure .... energy saving**
  2. **Reduction in delta 'P' .... higher operational length of RO**
  3. **Reduction in permeate TDS .... Quality Improvement**
  4. **Reject flow rate reduction ... permeate recovery becomes 64% from earlier 50%.**

Complete win win situation for bottler!!!!

I appreciate the continuous effort and delivering the tangible results provided by EcoCare team for almost all bottling plants in North region, started since mid of October '18.

Also appreciate their thrive for more!!!!

**Cheers!!!!**

Rgds

# *Consultation & Services*

**CIP Optimization**

**RO Service Contracts**

*Sanitization*

**Solution Designing**



# CIP Optimization

## Resources Optimization at GSK during Cleaning In Place (CIP)

- Better Cleaning
- Water Saving
- Reduce losses of Chemicals ,heat and energy
- Time saving,
- Better interface with followed steps of CIP


Water Saved - 230m<sup>3</sup>/month  
 Chemicals saving - 6.2L/month  
 Time saved - 30 min/day



Cleaned with Filled buffer CIP




Cleaned with Empty buffer CIP

  
 Design Build Operate

Based on line and tank dia following flow rates have been changed in respective circuit's recipe

CIP Station Line	CIP Circuit	CIP Circuit Tag	Existing Flow Rate (kg/hr)	Flow Rate as per dia (m)			Change in liter	
				Line Tank Dia rate (m)	Velocity required (m/s)	Flow rate required (m <sup>3</sup> /hr)		
Line 81_07	MF Reception Line	VHD Recep_15	25,000	101	2	58	-30000	
	MF Storage Tanks	T13_04	30,000	2053	40	23	-25000	
		T13_06		2309	40	13		
		Line		61.5	1.7	19	-20000	
Line 81_08	Mix Tank Emptying Line	T17_26	15,000	1519	40	14	-30000	
	Mix Emptying Line	L19_13	25,000	67.5	2	23	No Change	
	Mash Separation	Mash sep_13	20,000	51	2	19	No Change	
Line 81_09	Mix Holding Tanks	T19_11 ; T19_12	30,000	1523	40	11	-20000	
				1803	40	14		
				1803	40	14		
		Batch Line Sep		61.5	2	23		
Line 81_09	Weak Wat. Tank	T13_27	20,000	2423	40	18	-30000	
	Weak Wat Emptying Line	VHD_L13_28	20,000	2423	40	18	-30000	
	MF Recovery Line-VHD	L15_0X	30,000	78	2	33	No Change	
Line 82_07	Salt & Mannak Slurry Tank	T16_52	5,000	1009	40	8	-30000	
	Wet Blend Tank	T18_02	20,000	709	40	3	-10000	
Line 82_11	Slurry Preparation & Batch Making Tanks	Batch Making : 12_NX	25000	1519	40			
			(T12_11)				12	-20000
			Batch Line Sep	61.5	2	23		
			30000					
			(T12_12)	1385	40	10	-20000	
			(T12_13)	1385	40	10	-20000	
			30000					
			(T12_14)	1385	40	10	-20000	
			30000					
			(T12_15)	1385	40	10	-20000	
Batch Making Exp. Line	25000	78	2	33				

 GlaxoSmithKline

# Appreciation from customer



Gmail interface showing an email from Nitin Jain (Nitn.x.Jain@gsk.com) titled "CIP Improvement @ VBD".

**Compose**

- Inbox 512
- Starred
- Snoozed
- Sent
- Drafts 5
- Abhik
- DVS
- Inbox/Amazon 79
- EcoCare +

**Search:** from:(Nitn.x.Jain@gsk.com) Nitin jain

**Subject:** CIP Improvement @ VBD

**From:** Nitin Jain <Nitn.X.Jain@gsk.com>  
to me, Padam, Sridhar, Sandip, Cherub, Sonapat

**Date:** Wed, Mar 14, 2018, 12:50 PM

Hi Arvind,

Your time & inputs on CIP process improvement at VBD stream has not only broken the traditional beliefs & barriers but also improved cleaning efficacy & cost efficiency (with lesser time, chemical, water, steam & electricity).  
I take this opportunity to extend my sincere thanks to you for realizing this change.

In fact, this change was well supported by Padam & Sridhar, without their deep involvement it would be difficult to execute those changes in such a short time.

Looking forward for:

- a. Session on 'Team capability build on Effective CIP' – **Cherub**, pls do finalize slot with Arvind & plan this in this shut down itself
- b. Wave II: CIP Improvement drive at SD stream followed by Multiple effect evaporators – **Arvind**, pls do let us know your availability, Padam & Sandip will support this from GSK
- c. CIP Wave III: Let's finalize plan once you are here next time

This is another example of **'Achieving Exemplary Results thro ONE TEAM, ONE TARGET'**

Regards,  
**Nitin Jain**  
Manufacturing Lead - Sonapat Site

**GSK Consumer Healthcare**  
14 KM Stone, Sonapat-Meerut Road, Village Khewra,  
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**Email** [nitin.x.jain@gsk.com](mailto:nitin.x.jain@gsk.com)  
**Mobile** [+91 989 9002101](tel:+919899002101)

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# Our Clients



Bisleri



# ***Thank You***

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