# **BIOPIPE INDIA PRIVATE LIMITED**





# **BIOPIPE MISSION AND VISION**

Lifequest World Corp's mission is to become a global technology leader in low-cost, lowmaintenance, eco-friendly, decentralized waste water treatment.

Our core competency is well-established in sewage waste water treatment, but we intend to rapidly add solutions for treatment of effluents in textile, tannery, fisheries, dairy and processed water industries.





# FOCUS ON DECENTRALIZED MARKET

#### Urgent Need For Affordable, Fast-to-Deploy Solutions



- 2/3 of CAPEX before the plant (piping, pumping)
- **×** Expensive to maintain and upgrade
- × No flexibility and scalability
- Mainly for well developed urban areas



- ✓ 90 day of time-to-complete and lower, just-intime CAPEX
- ✓ Capturing more value
- ✓ Scalable and customized to fit current needs
- $\checkmark$  Easy to upgrade and relocate



## **OUR FAMILY OF TECHNOLOGIES**



# WASTE-WATER TREATMENT SCENARIO IN INDIA

1,545 meter<sup>3</sup> Low per-capita water availability

**20%** Groundwater blocks critical or overexploited

55% Households have no or open drains

**91%** of 302 river stretches polluted, high health impacts

**37,000 MLD:** Untreated sewage flows

63% waste water flows untreated

**8.5% and 10.1%:** Freshwater abstraction by industries in 2025 and 2050, respectively

**23%:** Industries do not get water easily or at high costs

- India's industrial water and waste water treatment market is expected to reach \$ 2.3 billion by 2022.
- India's water and wastewater treatment chemicals market is projected to reach \$ 805 million by 2023.
- Indian pharmaceutical industry is forecast to grow at a CAGR of 12.89% over 2015–2020 to reach USD 55 billion by 2023.



# **REGULATIONS, CHALLENGES & SOLUTION**



# **COMPARISON - COMPETITION**



Ref: Schedule Rate (DSR) 2022 | Maharashtra Jeevan Pradhikaran

# CASE STUDY – MUNICIPAL CORPORATION (PUMPING STATION)





This is a containerized Biopipe plant, situated at Delux Chowk Pumping Station, Pimpri.

Biopipe System of capacity 15 cubic meter per day is commissioned which treats the waste water that comes to the pumping station from the near by areas.

The pumping station then delivers this water to the STP situated at Bhatnagar. The treated water from Biopipe meets the pollution control board requirements.



# **BIOPIPE (OUTPUT) WATER TESTING RESULTS**

ABL Accredited Laboratory Results     Tel: B30880520078440000118, # E-mail: info@examine.com, # Web: Web: Web: Web: Web: Web: Web: Web:				atory Results	Pimpri Chinchwad Municipal Corporation Laboratory Results						
				Change (MoEFCC), Govt. of India O 45001: 2018 Certified Company	Biopipe Inlet Water Results			Biopipe Outlet Water Results			
		Test Rep	ort	REPORT NO AB/RPO/10/2021-22/75							
		Sample Code Sample Name		AB/10/2021-22/75	PIMPRI CHINCHAWAD MUNICIPAL CORPORATION		PIMPRI CHINCHAWAD MUNICIPAL CORPORATION				
				STP Outlet							
Client Details Name & Address:		Sample Collected By		Client	Sewage Treatment Plant Bhatnagar, chinchwad 30 MLD (ASP)			Sewage Treatment Plant Bhatnagar, chinchwad 30 MLD (ASP)			
В	BIOPIPE GLOBAL CORP Method for Sampling -		Delux sample collected (Biopipe)			Delux sample collected (Biopipe )					
De	lux Chowk, Pimpri, Pune	Sample Type		Sewage	Date- 26.10.2021			Date- 26.10.2021			
		Sample Collected On		05/10/2021	lille, 220 bu		Time- 5.30 pm				
		Sample Received on Date Analysis Date		05/10/2021         Sample location -         Model 2           05/10/2021 to 11/10/2021         Sr.no.         parameter         Result (mg/ lit.)	Model 2						
					Sr.no.	parameter	Result (mg/ lit.)		Sample location -	Outlet	
		Reporting Date		12/10/2021		paraticitation	C 44	Sr.no.	parameter	Result (mg/ lit.)	
s	ample returned /stored	Stored at 4°C for 1	I week from the	adate of reporting	1	PH	0.44	1	PH	6.9	
Sr. No.	Parameter	Results	Units	Standard Method	2	DO	NIL		DO	1.7	
1.	Total Suspended Solids	6.0	mg/lit	IS: 3025 Part-17 (R.A : 2017)	3	BOD	80	2	BOD	3	
2.	Total Dissolved Solids	248.0	mg/lit	15: 3025 Part-16 (R.A : 2017)	4	COD	316	3	COD	24	
3.	pH	6.89	1.2	15: 3025 Part-11 (R.A.: 2017)	5	TSS	10	4	TCC	5	
	Rinchamical assans Domand				6	0&G	ND	5	155	ND	
4,	(3 day test at 27°C)	2.0	mg/lit	15: 3025 Part-44 (R.A : 2019)				6	U&G	ND	
5.	Chemical Oxygen Demand	9,48	mg/lit	IS: 3025 Part-58 (R.A : 2017)			A CONTRACT OF THE OWNER	100 C 10			
6.	Oil and Grease	<1.0	mg/lit	IS: 3025 Part-39 (R.A.: 2021)				and the second sec			
7.	Chloride (as Cl')	47.51	mg/lit	IS: 3025 Part-32 (R.A : 2019)	Twani			Trant			
8.	Sulphate (as SO <sub>6</sub> <sup>-2</sup> )	23.82	mg/lit	APHA : 23 <sup>H</sup> edition -(4500- SO <sub>4</sub> <sup>2</sup> E)	chemist			chemist			

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Water For Tomorrow

SN Verified By - Quality Manager

Authorized By - Technical Manager Dy. Technical Manager



## **PROPOSED PROJECT**



# **ABRIMIX INTRODUCTION**



#### What is **ABRIMIX**?

The ABRIMIX Process utilises high shear with pressure to rapidly achieve a treated waste water end point, providing for the following :



#### The Abrimix technology is extremely effective in the removal of

Suspended	Hydrocarbons	Breaking and	Precipitation of
solids(organic /	such as , Oil,	separation of	Divalent and
inorganic)	Fats, Grease	emulsions	Trivalent

THE TECHNOLOGY IS ABLE TO CAUSE REACTIONS THAT NORMALLY DO NOT OCCUR UNDER ATMOSPHERIC CONDITIONS

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# **ABRIMIX APPLICATIONS**

Active applications/use cases of Abrimix



# **MARKET DEVELOPMENT STRATEGIES**

The 7Ps for Biopipe/ Abrimix/ Glanris

1. Product

2. Price

3. Promotion

4. Place

5. People

6. Process

7. Physical evidence



## **MARKET SEGMENT & TARGET FOR BIOPIPE INDIA**



**Biopipe India Targets in millions** 

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• The listed capacity is 23,277 MLD but no more than 18,883 MLD of sewage is actually treated.

## **MARKET SEGEMENTS & FOCUSED STATES IN INDIA**

Targeted States

Targeted

**Customers** 

Maharashtra, Goa, Gujarat, Karnataka, Rajasthan, Kerala, Haryana, Punjab,

Delhi, 7 sisters, West Bengal, Uttar Pradesh, Telangana, Andhra Pradesh



Targeted Industries Municipal Corporations, Real Estate, PWDs, Housing Societies, Hospitals, Educational Institutes, Malls, Distillery, Dairy, Pulp and Paper, Oil refinery, Solvent Extraction units, Solid Waste Disposal plants, Tannery, Chemical, Textile, Fisheries, Pharmaceutical, Food, Fertilizer, Steel, Sugar Factories, Petro-chemicals, Automobile industry, Airports, Railways etc.



## **BUSINESS MODELS CANVAS**

#### Key Partners

- Existing Customers
- Government Officials
- Liaisoning officers
- Politicians
- Influencing Personalities
- Consultants
- Competitors

# Key

- Sales •
- Liaison

#### Key Resources

- Existing
- Key Relations ٠
- Experts ٠

#### **Cost Structure**

- Marketing
- Working Capital
- Logistics



- Marketing

# 

- Infrastructure



## Proposition

- Patented ٠
- Sustainable
- Modular .
- Low Space •
- occupying
- Cost Effective
- Efficient •

- Customer **Relationships**
- Face to face meeting •
- Customer retention •

#### Channels

- **Direct Sales to** existing customers
- **Developing Govt** Projects
- Policy level changes

#### **Revenue Streams**

Sales •

- **Operations and Maintenance**
- WaaS





- Municipal Corporations
- **PWDs** •
- Housing Societies ٠
- Hospitals ٠
- Educational • Institutes
- Malls ٠
- Industries ٠





- Contract Manufacturing
- **Civil works**
- Labor

## **BUSINESS MODELS**





**Capital Expenses** 

- Customer invests in the plant
- Customer claims tax incentives
- Customer claims depreciation
- Customer pays upfront for the system
- OEM provides O&M services over the period

**OPEX** 

**Operating Expense** 

- Developer Invests in the plant
- Customer Pays according to the service level agreement ( for amount of treted water)
- Developer claims tax incentives
- Long term agreements (10 15 years)

### **Lease Based**

Leasing of the equipment

- Leasing compnay invets in the plant
- Leasing compny pays upfront to OEM
- Leasining compnay claims tax incentives
- Customer pays monthly EMI to leasining compnay



## **PROJECT SELECTION - LOW HANGING FRUITS FOR STP AND ETP**

Municipal Corporations	Government Housing Colonies (Mhada, CIDCO, Police, Military)	Private Housing Colonies ( Tata, L&T, Mahindra, Lodha)	Industries summoned by pollution control board, NGT
Government / Private Hospitals	Ministry of Rural Development, Water Sanitation	Railways / Airports / Hotels	Educational Institutions
Clean Ganga / Namami Ganges / Industrial Associations	Government and Private Industries	Ministry of environment and rural development, ministry of Heavy Industries	Ministry of urban housing and environment, PSUs, Oil and Gas Industry
<ul> <li>Delay in tender process</li> <li>No capital available with cust</li> <li>Pollution control board gave</li> <li>extension of validity of statuto</li> <li>Decision making delay</li> <li>Technology acceptance delay</li> </ul>	tomer due to severe impact of CC relaxations to industries ory clearances without inspection ay	CHALLENGES	bio <b>p!pe</b>

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# **ABRIMIX- INDUSTRY RELEVANCE**



Proposal 23 nos	Chemical Infra – Being Developed	Request for Lab Set up
Capacity 200 MLD+	Cost Comparison completed	Request for vehicle purchase
Amount \$50 million +	Production and Engineering facility identified	Request for warehouse rent
Pharma, Dairies, Textile, Oil Refinery, Automobile	Pilot plant require to justify high claims	Request for working capital



# **GLANRIS- INDUSTRY RELEVANCE**



Number of Units – 4

Customers – Pharma Industry, Municipal Corporation, STPs, Plating Industry, Railways, Auto Mobile Industry Successful pilots.





Date: 20/05/2021

To,

Tanmay Pawale Biopipe Global Corp.

I am writing this letter to confirm that we have received a skid mounted pilot unit of Glanris Filter media from Biopipe Global Corp for our plant at Glatt Systems Pvt Ltd, GAT No 321/2, 322/1, 324/1 & 324/2, Taluka - Shirur, Nagar Road, Kondhapuri, Maharashtra 412209.

Glatt Systems possesses an ETP of the 10,000 liters per day capacity and have been facing critical issues of colorized treated effluent and odor from the treated effluent. Thus, Glatt Systems requested Biopipe Global Corp for an innovative solution for the rectification of the issues and they have supplied us with Glanris filter media skid mounted unit. We have received this plant in month of February and we started the operations of the Glanris filter media plant immediately for testing.

We have observed that the product worked efficiently to de-colorize the treated water and also it has eliminated odor from the treated water.

We are satisfied with the initial results, however, we will be testing the product till May end.

We wish all the best to Biopipe Global Corp.

Thanks & regards





## **BIOPIPE GLOBAL CORP PRESENCE & PARTNERS**

