

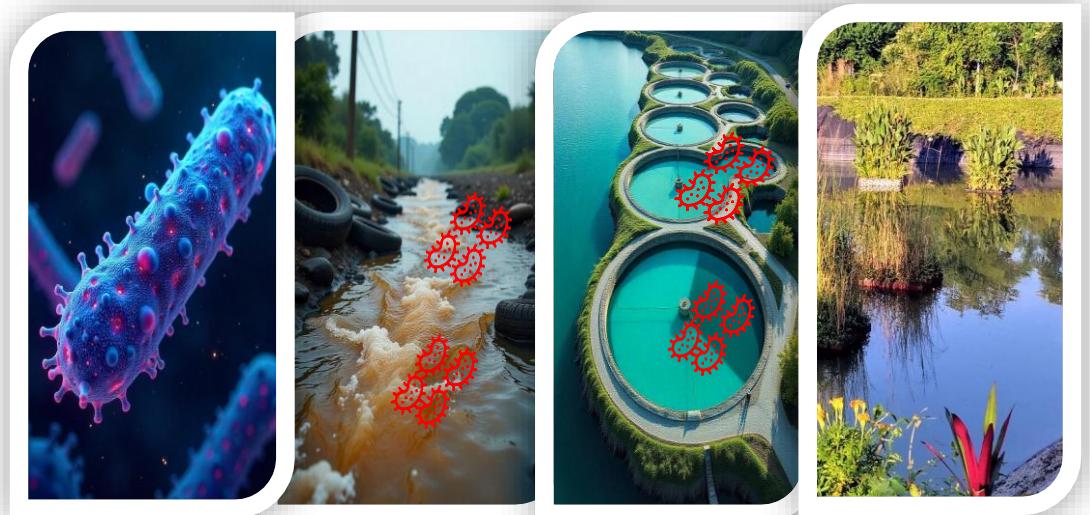
WELCOME



Company profile

NILETECH INFRABUILD PVT. LTD.

The wastewater management specialist



Your Complete Partner for Environment & Infrastructure

Niletech Infrabuild Pvt Ltd - Company Profile

Understanding Water Pollution and Its Sources

Bio-Product Profile-NILETREAT

Treatment of Open Drains/Lakes/Ponds and Faecal Sludge of septic tanks of Community / Mobile Toilets using NILETREAT

Case Studies of Niletech Bio-remediation Projects

Credentials of Niletech Infrabuild Pvt Ltd



FOUNDERS

- ❖ Nilettech Infrabuild Pvt. Ltd was established in 2016 at New Delhi by **Mr. Manvendra Tomar & Mr. Randhir Singh Tomar**.
- ❖ **Mr. Manvendra Tomar** is the **Managing Director** of the company. He is an engineer from SRM University, Chennai, and holds an MBA from Macquarie Business School, Sydney, Australia, with more than eight years of experience in the design, execution of sewage treatment plants and sewerage networks.
- ❖ **Priyanka Tomar** is the **Chief Executive Officer (CEO)** of the Company. She is a Doctor of Philosophy (PhD) candidate in Environment (Bioremediation) from NIT Patna with more than 7 years of experience in the Sewage Treatment Field.
- ❖ Company have regional branches at New Delhi & Uttar Pradesh.
- ❖ The company has experience of working as a Consultant and Contractor in various government and private projects of design & construction of Sewage Treatment Plant (STP), Faecal Sludge Treatment Plants (FSTP), Environmental Pollution Control, and Conservation of Heritage Buildings.
- ❖ Specialized in In-situ Bioremediation Treatment of Drains, Ponds, Lakes and Rivers.
- ❖ Renovations & Beautifications of Lake & Ponds.



About Us

Niletech Infrabuild Pvt. Ltd. is a leading environmental solutions company provider specializing in wastewater treatment technologies aimed at creating a sustainable environment. We are a qualified and experienced team of professionals. We are dedicated to the Environmental Pollution Control Sector, particularly domestic and industrial waste management projects including bioremediation of wastewater/sludge waste with special blend of microbes. Our developed In-situ bioremediation technology offers eco-friendly, cost-effective alternatives to conventional wastewater treatment methods, helping industries and municipalities achieve regulatory compliance while reducing environmental impact.

Our Mission

To provide sustainable wastewater bioremediation solutions that safeguard water resources and support environmental stewardship.

Our Vision

To be a global leader in wastewater treatment innovation, transforming contaminated water into a clean, reusable resource through advanced bioremediation technologies.

Core Values

Sustainability: Commitment to eco-friendly and renewable wastewater treatment process.

Innovation: Continuous research and development in bioremediation technologies.

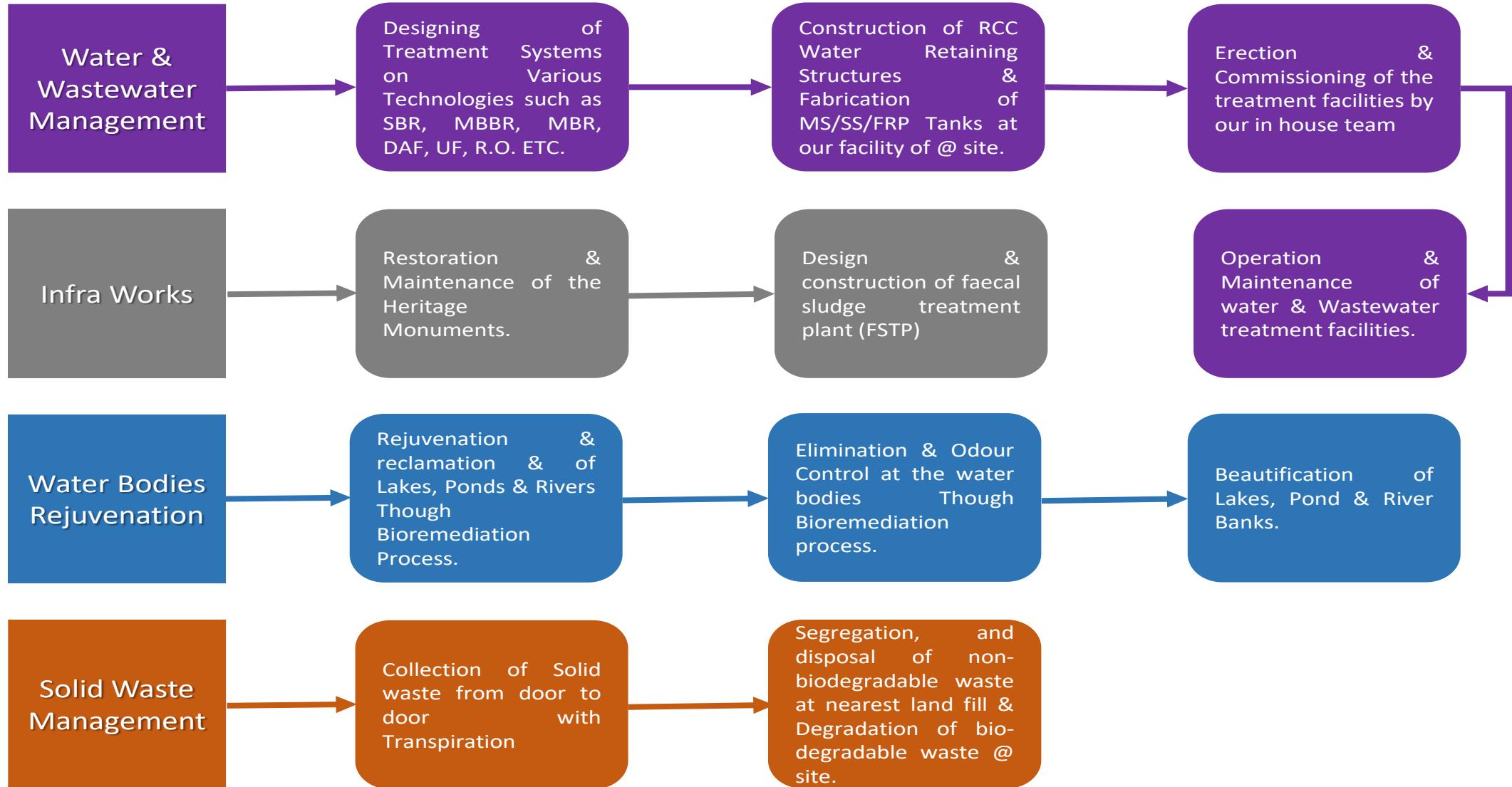
Integrity: Upholding transparency and ethical environmental practices.

Customer Focus: Delivering tailored, efficient, and cost-effective solutions.

Scientific Excellence: Utilizing the latest advancements in microbial technology.



SERVICES



UNDERSTANDING WATER POLLUTION



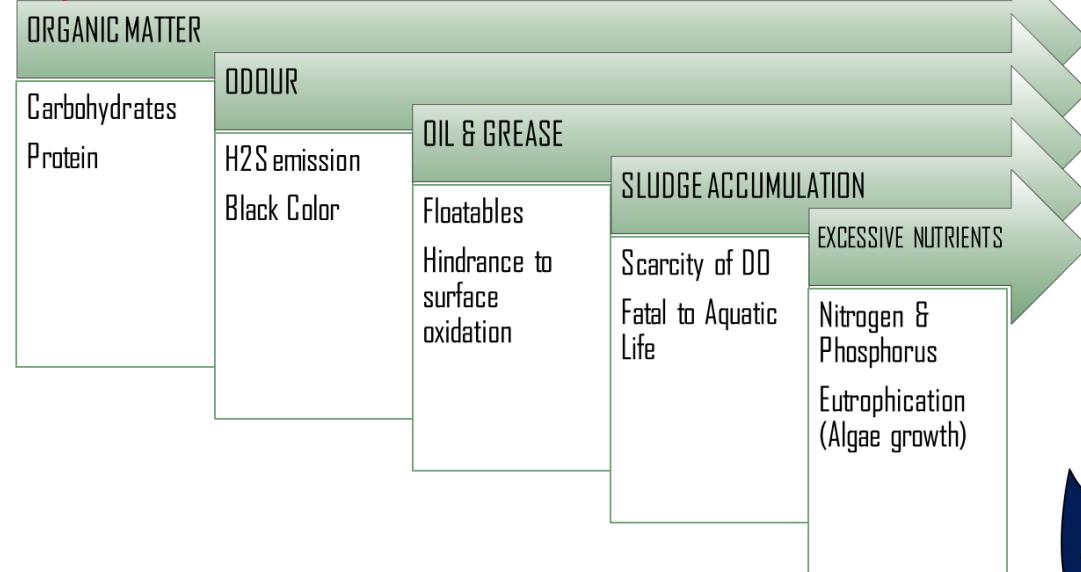
Sources and effects of Water Pollution in India



The major sources of water pollution are:

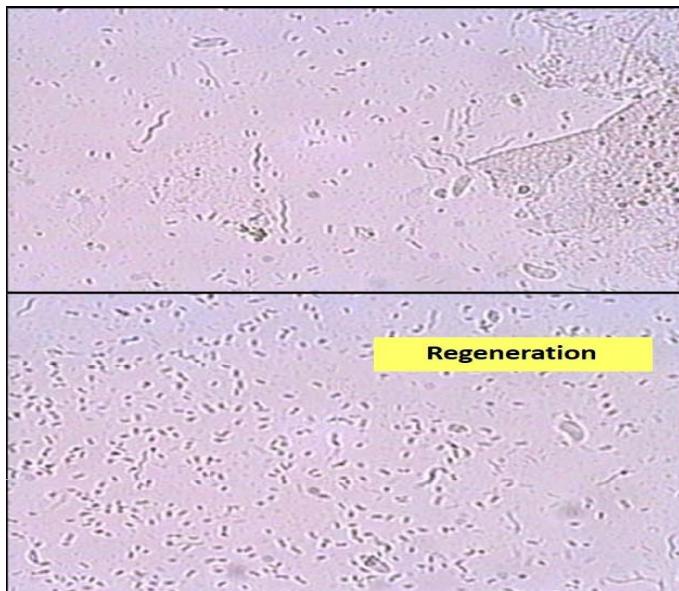
- Domestic waste
- Sewage discharge
- Agricultural waste
- Industrial Waste
- Acid Rain
- Petroleum (oil) pollution

Major Problems Associated with Water Bodies



Niletech Infrabuild Treatment Technology

- ❖ We have developed the most efficient and eco-friendly microbial technology for treating wastewater pollutants under anoxic conditions using our Bio-product, **NILETREAT**.
- ❖ **Anoxic Bioremediation Technology** is the most effective, and eco-friendly treatment process due to its unique capability to control generation and emission of highly toxic and health hazardous hydrogen sulphide gas, the main odorous component of polluted water and solids.
- ❖ This **NILETREAT** bio-consortium consists of a blend of strict and facultative anaerobic bacterial strains.



Microbial Strains of NILETREAT

Sr. No.	Strains	Targeted treatment
1.	<i>Clostridium butyricum</i>	Oil/Grease Control
2.	<i>Thiobacillus denitrificans</i>	1st Stage Odour Control
3.	<i>Thiobacillus thioparus</i>	2nd Stage Odour Control
4.	<i>Chromatium - purple sulfur sulfur bacteria</i>	3rd Stage Odour Control & Sludge digestion
5.	<i>Bacillus subtilis</i>	Protein Digestion
6.	<i>Geobacteraceae consortium</i>	Pathogen Control



BIO-PRODUCT NILETREAT PROFILE

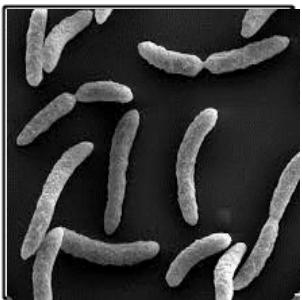
BIO-PRODUCT NILETREAT is a combinations of strictly anaerobic & facultative live bacterial strains that start dispersing immediately as diluted in water.

SALIENT FEATURES OF NILETREAT

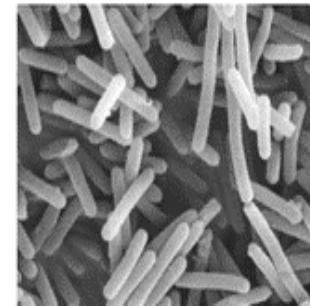
- ❖ 1 billion CFU/ml (colony-forming unit (CFU)).
- ❖ Size of individual bacterial cells varies from 0.3 microns to 6 microns.
- ❖ Optimum pH range 5.6 to 9.5 & temperature tolerance from 4 °C to 50 °C.
- ❖ Minimum contact period required for effective treatment is 90 min to 180 min.
- ❖ Blend in a liquid medium with shelf life up to 3 years.
- ❖ Consists of sulphur oxidizing bacteria.
- ❖ All members are non-toxic, non-pathogenic, and friendly to aquatic life.
- ❖ Compatible with naturally occurring microbes in sewage, thus become a synergistic part of activated sludge and effectively degrading organic wastes.



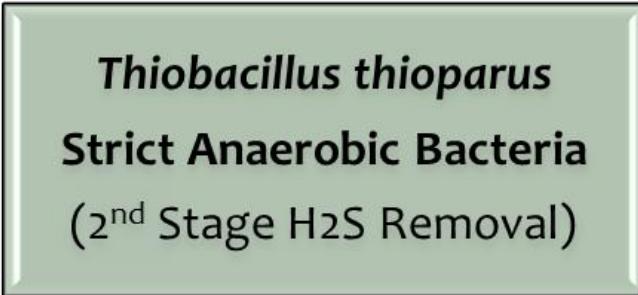
NILETREAT– MICROBIAL STRAINS



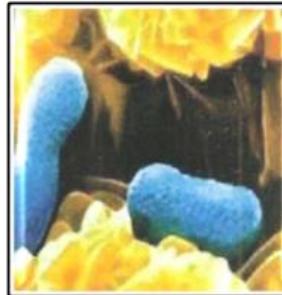
Thiobacillus denitrificans
Strict Anaerobic Bacteria
(1st Stage H₂S Removal)



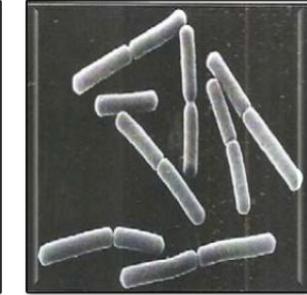
Clostridium butyricum
Strict Anaerobic Bacteria
(Oil / Grease Removal)



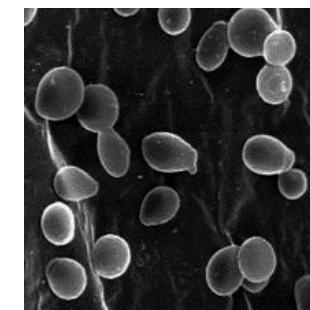
Thiobacillus thioparus
Strict Anaerobic Bacteria
(2nd Stage H₂S Removal)



Bacillus subtilis
Facultative Bacteria
(Protein Removal)



*Chromatin-Purple Sulfur
bacteria*
Photosynthetic Bacteria
(3rd Stage H₂S Removal)



Saccharomyces cerevisiae
Yeast
(Removal of Protein & Carbohydrates)

H₂S Odour Control

Other Pollutants Removal



In-situ Bioremediation treatment of drains

Treatment Equipment's





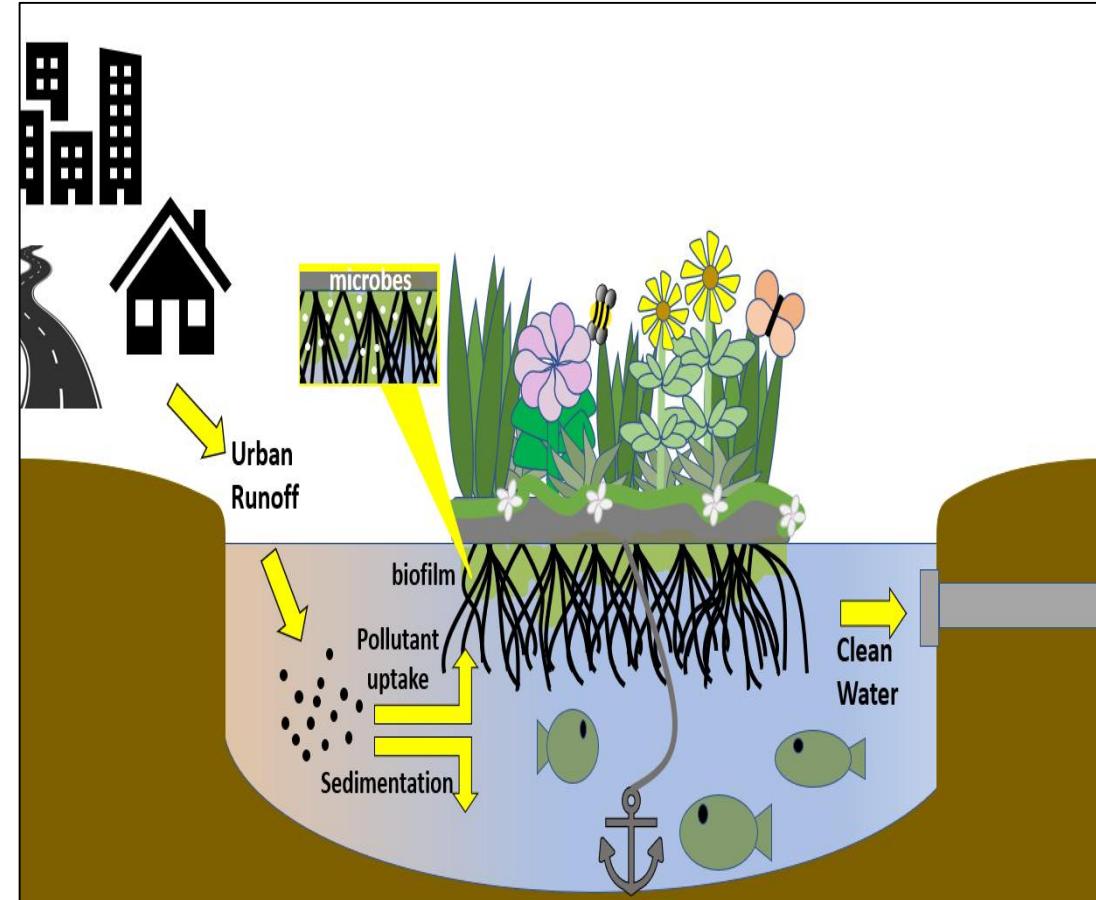
90° V-Notch for Flow Measurement



Bar Screen At Upstream & Downstream



Phyto-remediation based Wastewater Treatment System



FLOATING TREATMENT WETLANDS

Your Complete Partner for Environment & Infrastructure



Coir Logs

Installation of Coir Logs:

- Coconut coir logs are a completely biodegradable logs available in market and is specially redesigned with Coco peat Inside the core.



Purposes served by coir logs:

- Serves as a medium for bacteria to reside, grow and treat the pollutants.
- Serves as a filtering medium to certain extent.
- Serves to reduce the velocity of water flow by obstructing the flow.



Radar water flowmeter system for flow measurement of the open drains



Dashboard

Online data monitoring

ENE04326

Parameters

Last Updated Time : 2025-03-10 08:45:19

Velocity
5.04 m/s

Water Level
0.46 m

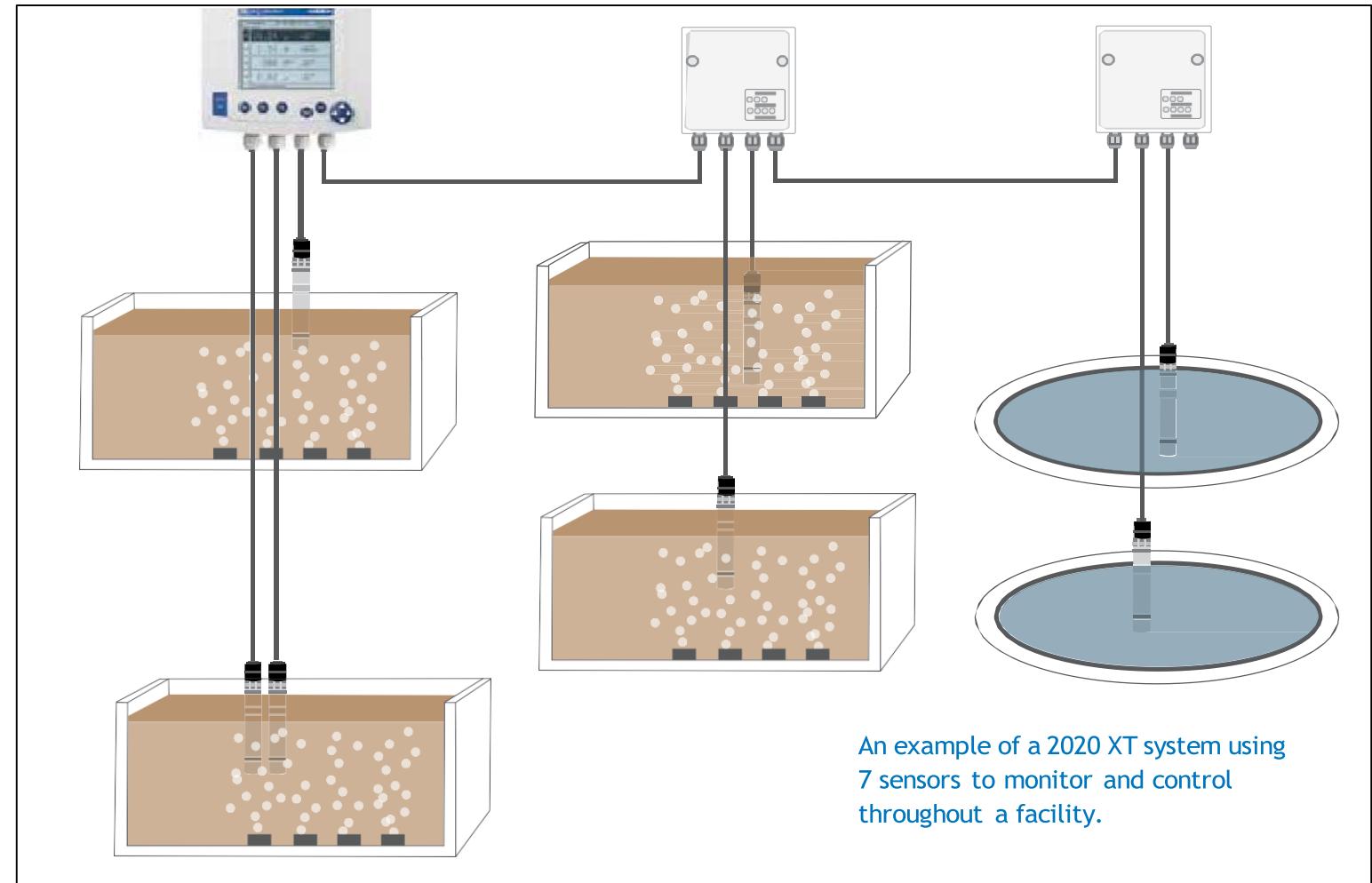
Water Discharge
5.51 m³/s

WATER DISCHARGE
5.51 m³/s

Reply



Online monitoring equipment on sewage system to water quality parameters



APPROACH PLAN FOR TREATMENT OF OPEN DRAINS

Phase I

- Physical survey of drains
- Initial sampling of water & testing
- Selection of dosing sites.
- Calculating the dosing pattern.

Phase II

- Mobilization of resources
- Installation of Dosing systems
- Cleaning of Accumulated Floatables
- Installation of Screen bars and V-notch/Flow meter
- Installation of Coir logs and aerators system in drains
- Supply & Installation of online Monitoring systems (To Measure pH, BOD, COD, &TSS)

Phase III

- Supply on installation of prefab site office
- Preparation of Active Dosing solution
- Start dosing of Niletreat for rest of the project completion date.
- In-situ lab testing & Third party testing



EXECUTION PLAN FOR TREATMENT OF OPEN DRAINS

Stabilization Period

- Duration - 30 Days
2 to 4 ppm Dose

DEPENDS ON ACTUAL SITE CONDITIONS

Maintenance Period

- 1-2 ppm for maintenance depending on reduction in BOD & COD level



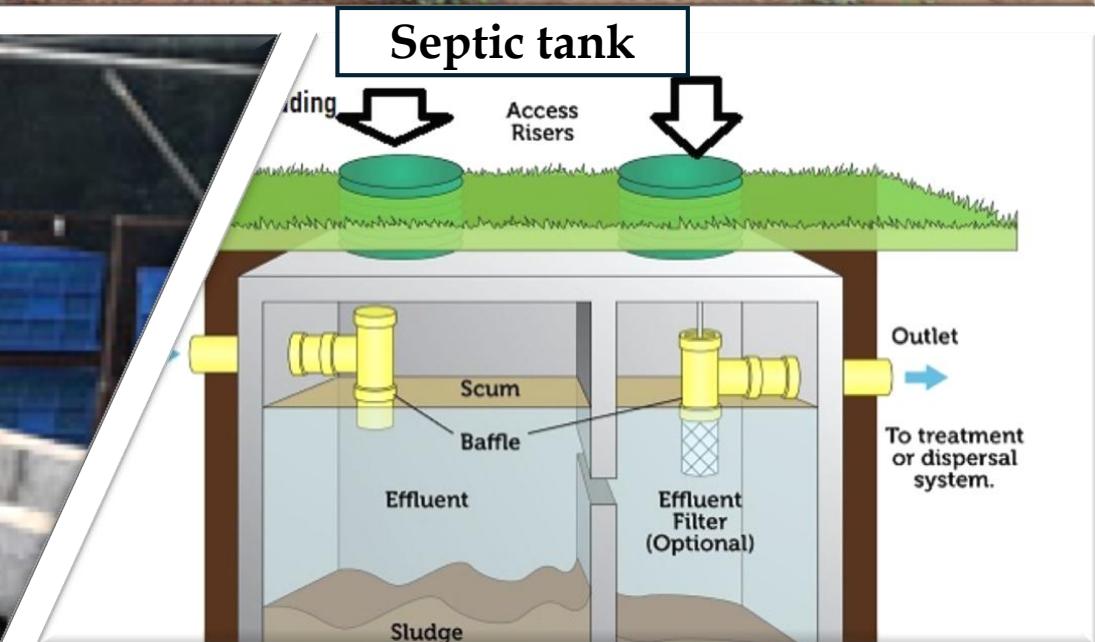
In-Situ Treatment of Sludge of septic tanks of Community/Mobile Toilets

1. Site Survey : Mapping of toilet seats present
2. Septic tank capacity Measurement : Analysis the total capacity & sludge load
3. Dosing System : Bio-product Niletreat is simple and easy.
4. Treatment : Pre-activation process of Niletreat & Dosing of activated Biological compound.
5. Monitoring : After Treatment dip stick method is used for monitoring.





Mobile toilet van

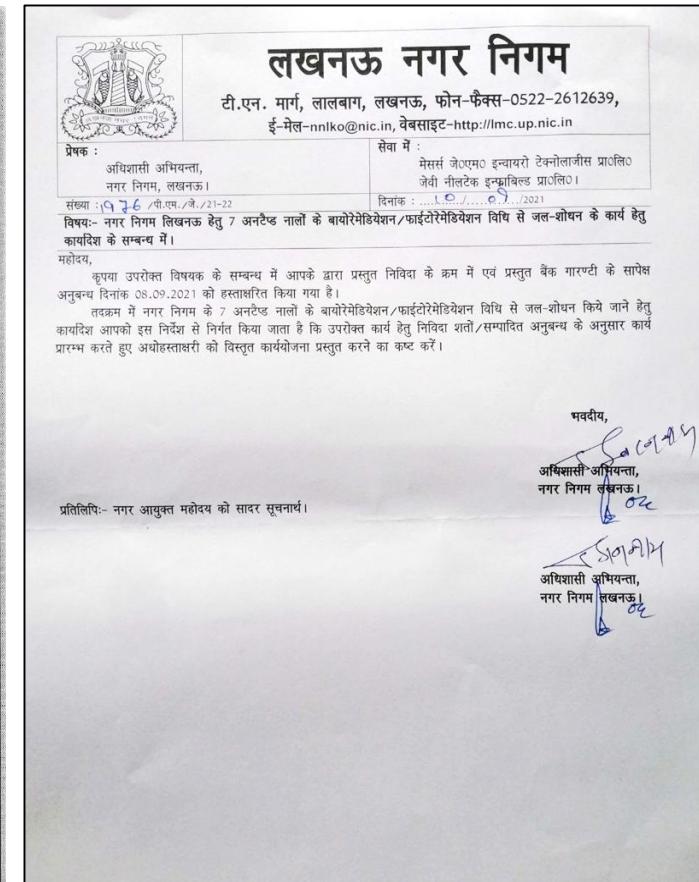
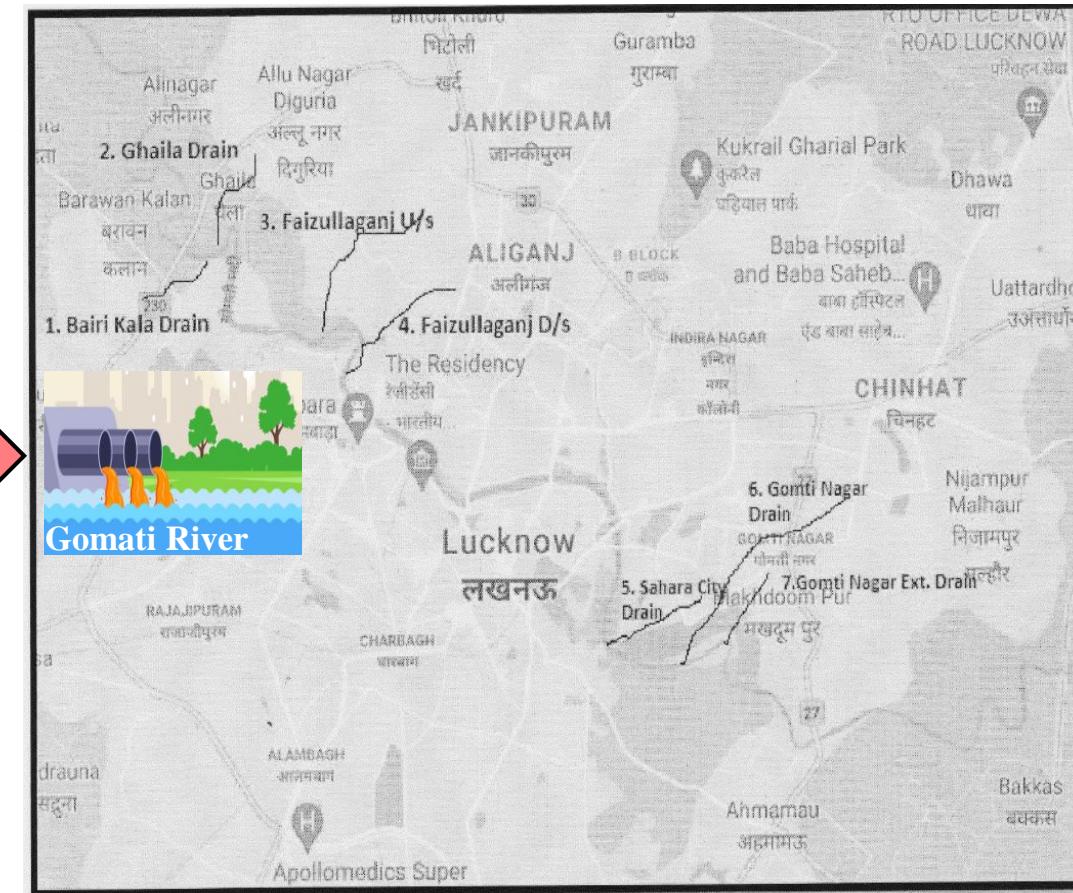


CASE STUDY 1- Bioremediation of Open Drains of Nagar Nigam, Lucknow Project

Treatment of drains by bio-remediation or any other nonconventional innovative and proven technologies at Lucknow

Partially tapped drains (04) Untapped drains (07)

- Bairikala Drain
- Ghaila drain/Pond
- Faizullahganj U/s
- Faizullahganj D/s
- Sahara City Drain
- Gomati Nagar Ext.
- Gomati Nagar
- Nagariya Drain
- Sarkata Drain
- Pata Drain
- Wazirganj Drain



CSIR-IITR Lab test reports of wastewater (Inlet & Outlet) of all Lucknow drains

सीएसआईआर- भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विश्वविज्ञान भवन, ३१, महात्मा गांधी मार्ग, लखनऊ-२२०००४, U.P., INDIA
 Phone: +91-522-2217497 Fax: +91-522-2026227 Email: director@iitrdelhi.org www.iitrdelhi.org

DRAIN WATER ANALYSIS REPORT

1. Name of analyzing laboratory : Water Analysis Lab Date: 31st Jan., 2023
 2. Nature / type of sample(s) : SSP-440, (Drain Water Sample, Lucknow).
 3. Sealed/Unsealed : Unsealed
 4. Date of receipt : 17th Jan., 2023
 5. Method of Analysis : As per APHA/AWWA; 23rdEdn.(2017)
 6. Sample Collected by : IITR & Nagar Nigam Staff

S. No.	Sampling Site	RESULT	RESULT	RESULT	RESULT
		pH (4500-H ⁺ B)	Total Suspended Solids (2540-D)	COD (5220-C)	BOD (5210-B)
1.	Ghaila (INLET)	7.85	304.00	280.00	75.00
2.	Ghaila (OUTLET)	7.69	95.00	80.00	20.00
3.	Bairikala (INLET)	7.51	316.00	333.33	80.00
4.	Bairikala (OUTLET)	7.84	92.00	96.00	22.00
5.	Faizullaganj D/S (INLET)	7.42	242.00	213.33	120.00
6.	Faizullaganj O/S (OUTLET)	7.35	70.00	61.54	28.00
7.	Faizullaganj L/S (INLET)	7.25	264.00	373.33	85.71
8.	Faizullaganj U/S (OUTLET)	7.60	76.00	96.00	24.00
9.	Sahara city (INLET)	7.49	168.00	144.00	55.00
10.	Sahara city (OUTLET)	7.63	48.00	40.00	14.00
11.	Gomti Nagar (INLET)	7.45	194.00	- 200.00	65.00
12.	Gomti Nagar (OUTLET)	7.51	54.00	56.00	18.00
13.	Gomti Nagar Ext. (INLET)	7.45	202.00	160.00	60.00
14.	Gomti Nagar Ext. (OUTLET)	7.76	58.00	42.67	16.00
15.	Nagariya (INLET)	7.31	240.00	360.00	110.00
16.	Nagariya (OUTLET)	7.44	68.00	93.33	28.00
17.	Sarkata (INLET)	7.51	258.00	300.00	100.00
18.	Sarkata (OUTLET)	7.60	74.00	80.00	29.00
19.	Pata (INLET)	7.47	262.00	350.00	91.67
20.	Pata (OUTLET)	7.55	70.00	88.00	26.00
21.	Wazirganj (INLET)	7.42	230.00	288.00	88.89
22.	Wazirganj (OUTLET)	7.46	68.00	72.00	26.00
23.	Standard Uncertainty ±	0.14	2.8	2.92	5.60

सीएसआईआर- भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR- INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विश्वविज्ञान भवन, ३१, महात्मा गांधी मार्ग, लखनऊ-२२०००४, U.P., INDIA
 Phone: +91-522-2217497 Fax: +91-522-2026227 Email: director@iitrdelhi.org www.iitrdelhi.org

DRAIN WATER ANALYSIS REPORT

1. Name of analyzing laboratory : Water Analysis Lab Date: 24th Jan., 2023
 2. Nature / type of sample(s) : SSP-440, (Drain Water Sample, Lucknow).
 3. Sealed/Unsealed : Unsealed
 4. Date of receipt : 09th Jan., 2024
 5. Method of Analysis : As per APHA/AWWA; 23rdEdn.(2017)
 6. Sample Collected by : IITR & Nagar Nigam Staff

S. No.	Sampling Site	RESULT	RESULT	RESULT	RESULT
		pH (4500-H ⁺ B)	Total Suspended Solids (2540-D)	COD (5220-C)	BOD (5210-B)
1.	Nagariya (INLET)	7.56	297.78	312.32	100.00
2.	Nagariya (OUTLET)	7.57	84.44	87.84	27.66
3.	Sarkata (INLET)	7.66	315.56	296.70	84.21
4.	Sarkata (OUTLET)	7.71	86.67	93.70	25.02
5.	Pata (INLET)	7.58	271.11	273.28	68.42
6.	Pata (OUTLET)	7.64	75.56	78.08	20.41
7.	Wazirganj (INLET)	7.53	264.44	312.32	76.47
8.	Wazirganj (OUTLET)	7.57	73.33	78.10	22.00
9.	Standard Uncertainty ±	0.14	2.8	2.92	5.60

Ansari 30/1/24
 Dr. NG Ansari
 (Reviewed by)

Satyakam Patnaik 24/1/24
 Dr. SATYAKAM PATNAIK
 (Authorized by)

सीएसआईआर- मारतीय विषविज्ञान अनुसंधान संस्थान
CSIR- INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विश्वविज्ञान भवन, ३१, महात्मा गांधी मार्ग, लखनऊ-२२०००४, U.P., INDIA
 Phone: +91-522-2217497 Fax: +91-522-2026227 Email: director@iitrdelhi.org www.iitrdelhi.org

DRAIN WATER ANALYSIS REPORT

1. Name of analyzing laboratory : Water Analysis Lab Date: 25th April, 2023
 2. Nature / type of sample(s) : SSP-440, (Drain Water Sample, Lucknow).
 3. Sealed/Unsealed : Unsealed
 4. Date of receipt : 13th April, 2023
 5. Method of Analysis : As per APHA/AWWA; 23rdEdn (2017)
 6. Sample Collected by : IITR & Nagar Nigam Staff

S. No.	Sampling Site	RESULT	RESULT	RESULT	RESULT
		pH (4500-H ⁺ B)	Total Suspended Solids (2540-D)	COD (5220-C)	BOD (5210-B)
1.	Nagariya (INLET)	9.01	282.00	268.80	75.00
2.	Nagariya (OUTLET)	7.92	82.00	69.12	21.82
3.	Sarkata (INLET)	7.95	270.00	184.32	77.78
4.	Sarkata (OUTLET)	7.50	80.00	53.76	20.00
5.	Pata (INLET)	7.72	240.00	307.20	80.00
6.	Pata (OUTLET)	7.70	70.00	86.40	17.78
7.	Wazirganj (INLET)	7.48	252.00	245.76	75.00
8.	Wazirganj (OUTLET)	7.21	68.00	69.12	22.00
9.	Standard Uncertainty ±	0.14	2.8	2.92	5.60

Ansari 30/1/24
 Dr. NG Ansari
 (Reviewed by)

Satyakam Patnaik 24/1/24
 Dr. SATYAKAM PATNAIK
 (Authorized by)

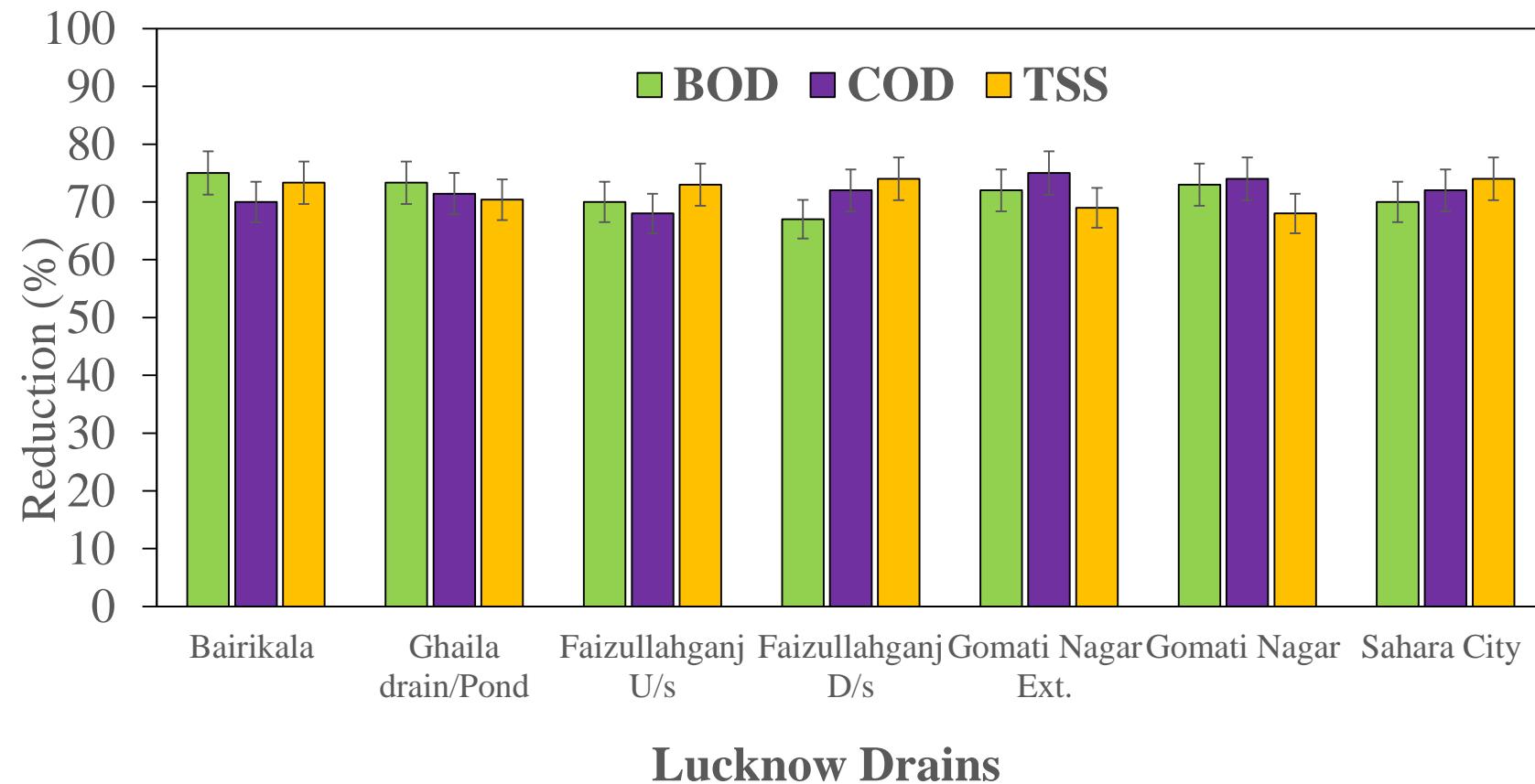
Your Complete Partner for Environment & Infrastructure



Reduction in pollution level in sewage wastewater of 07 Untapped drains of Lucknow after Bioremediation Treatment Technology

Key findings:

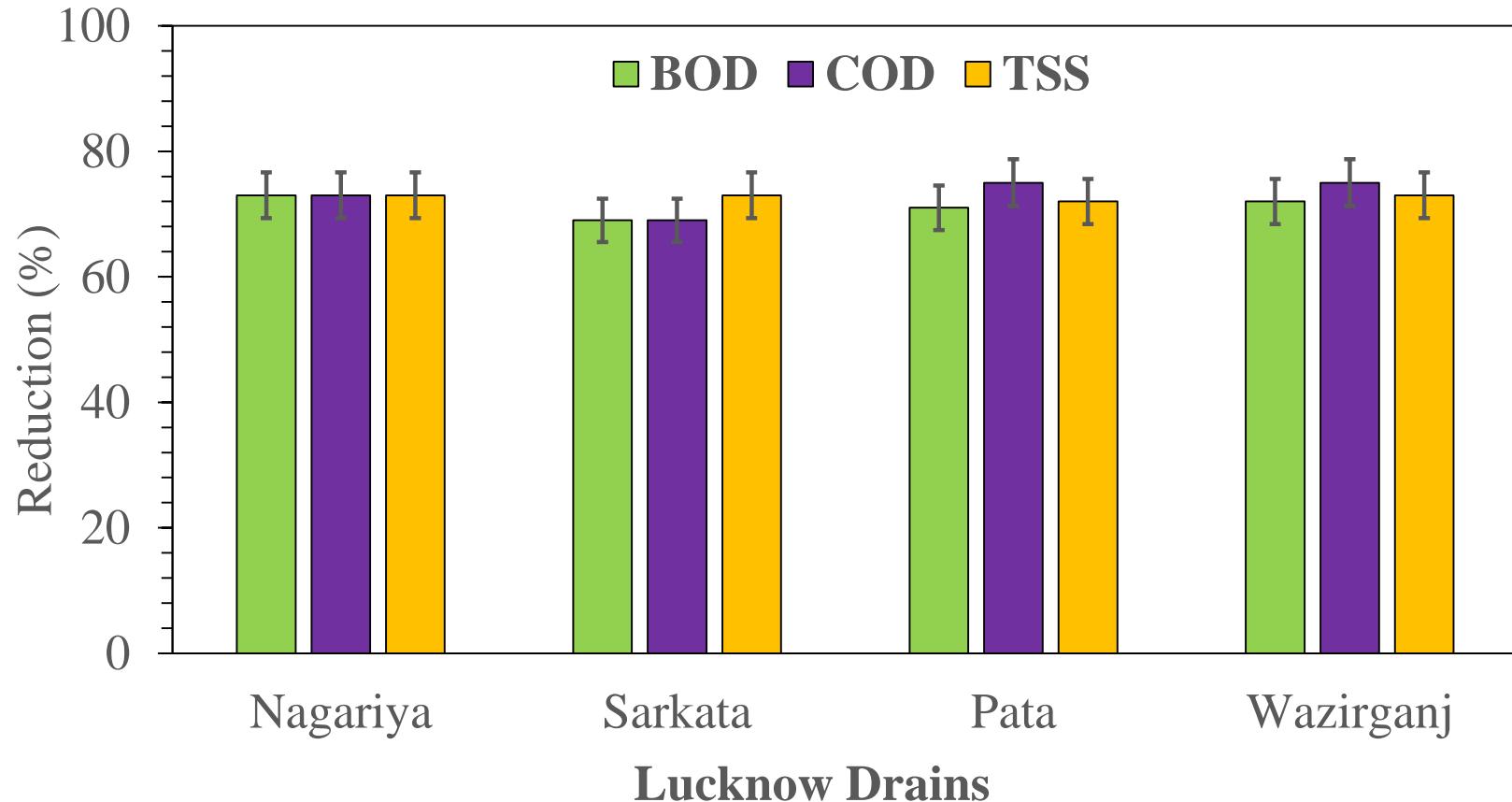
- All the drains of Lucknow were contaminated with sewage pollutants.
- After treatment of drain wastewater through In-situ bioremediation, reduction of BOD (70-75%) and COD (68-73%), TSS (68-74%) was observed.



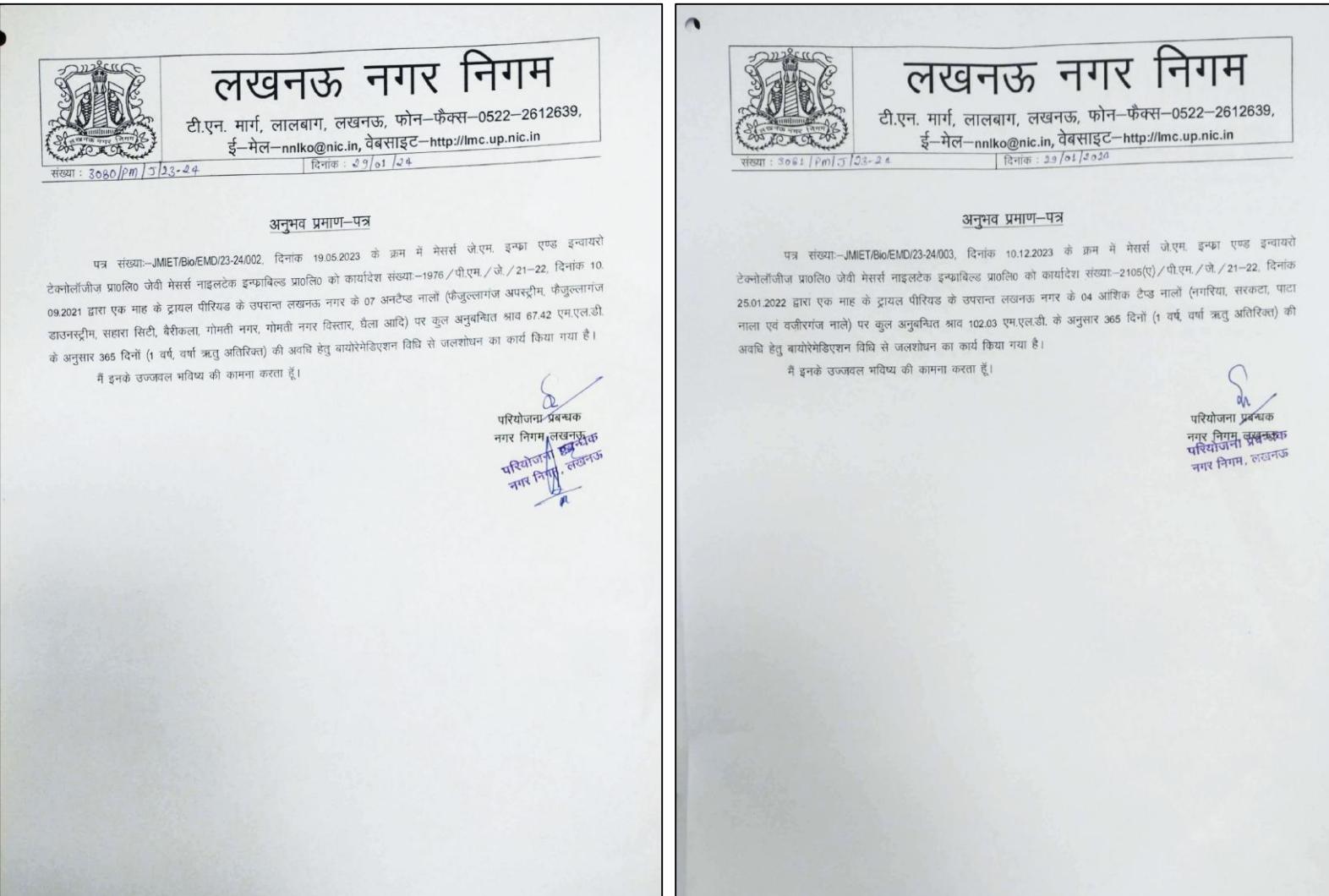
Reduction in pollution level in sewage wastewater of 04 partially tapped drains of Nagar Nigam Lucknow after Bioremediation Treatment

Key findings:

- All the drains of Lucknow were contaminated with sewage pollutants.
- After treatment of drain wastewater through In-situ bioremediation, reduction of BOD (70-73%) and COD (70-75%), TSS (72-76%) was observed.



Nagar Nigam Lucknow issued certificates of completion for the bioremediation work of 7 untapped and 4 partially tapped drains successfully done by Niletech Infrabuild Private Limited



CASE STUDIES 2- BIO-REMEDIATION WORK AT SARUSOLA BEEL , GUWAHATI

Treatment of Sarusola Beel through Bioremediation in compliance with the Hon'ble NGT order

S.N.	Parameter	Value
1	Project Location	Athgaon (Chatribari)
2	Latitude	26°10'31.1"
3	Longitude	91°44'34.6"
4	Total length (Drain & Beel)	2500 m
5	Project Length (Beel)	560 m
6	Avg. Width	50 m
7	Avg. Depth	0.60 m
8	Volume of Water (Project)	16800 m ³
9	Flow (Approx.)	11 MLD
10	Hydraulic Retention Time	24 Hrs



GMDA
OFFICE OF THE GUWAHATI METROPOLITAN DEVELOPMENT AUTHORITY
STATFED BUILDING, BHANGAGARH, GUWAHATI-781005

Website: www.gmda assam.gov.in E-mail: geo_gmda-as@nic.in Tel: 0361- 2529650, 0361- 2529824

No. GMDA/DEV/131/2020/21 Dated: 04 /07/2024

LATTER OF ACCEPTANCE

To : M/s Niletech Infrabuild Private Limited
B-17, Bas, Bhanot Phatak Gupta Road
Paharganj, Delhi-110055

Sub : Treatment of Sarusola Beel through Bioremediation in compliance with the Honourable NGT Order on EPC mode

Ref : NIT No. GMDA/DEV/131/2020/8, dated: 28/02/2024
Your tender received on dated: 22/03/2024

Sir,

This is to notify that your bid dated 22/03/2024 for execution of the work Treatment of Sarusola Beel through Bioremediation in compliance with the Honourable NGT order for the Contract Price of Rs.1,48,50,000.00 (Rupees One Crore Forty Eight Lakh Fifty Thousand Only) is hereby accepted by the undersigned in accordance with instruction to bidders.

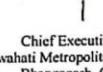
You are hereby requested to furnish Performance Security, in the form detailed in Para 33.1 of ITB for an amount equivalent to Rs.7,42,500.00 (Rupees Seven Lakhs Forty Two Thousand Five Hundred) only within 10 days of the receipt of this letter of acceptance valid up to 45 days from the date of expiry of defects Liability Period and sign the contract agreement, failing which action as stated in Para 32.3 of ITB will be taken.

Yours faithfully,


Chief Executive Officer
Guwahati Metropolitan Dev. Authority
Bhangagarh, Guwahati-05

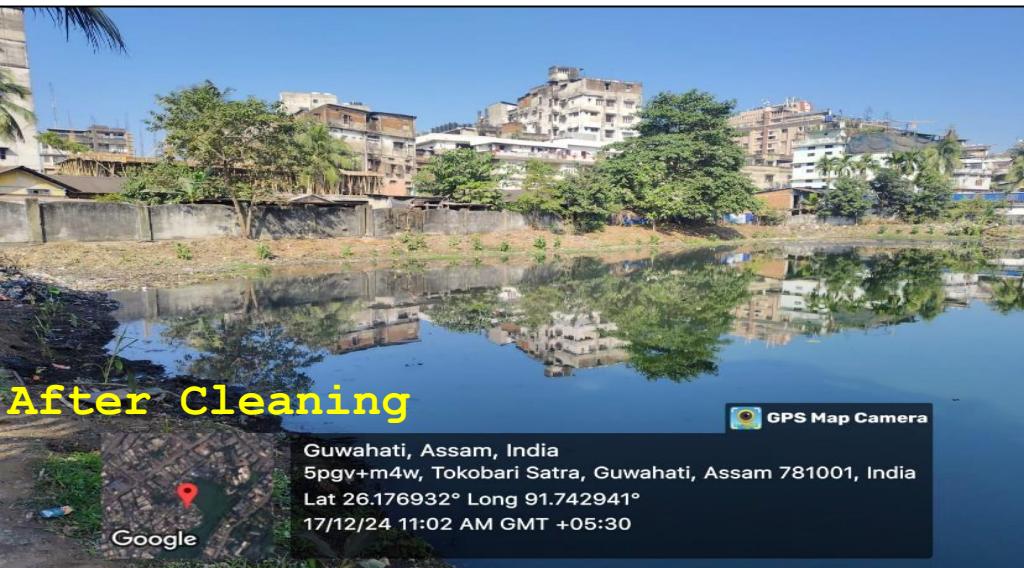
Dated: 07/07/2024

Memo. No. GMDA/DEV/131/2020/21-A
Copy to:-
1) Chief Engineer, GMDA for information & necessary action
2) Chief Accounts Officer, GMDA for information.
3) P.A to the Hon'ble Chairman, GMDA for kind appraisal of Hon'ble Chairman.


Chief Executive Officer
Guwahati Metropolitan Dev. Authority
Bhangagarh, Guwahati-05



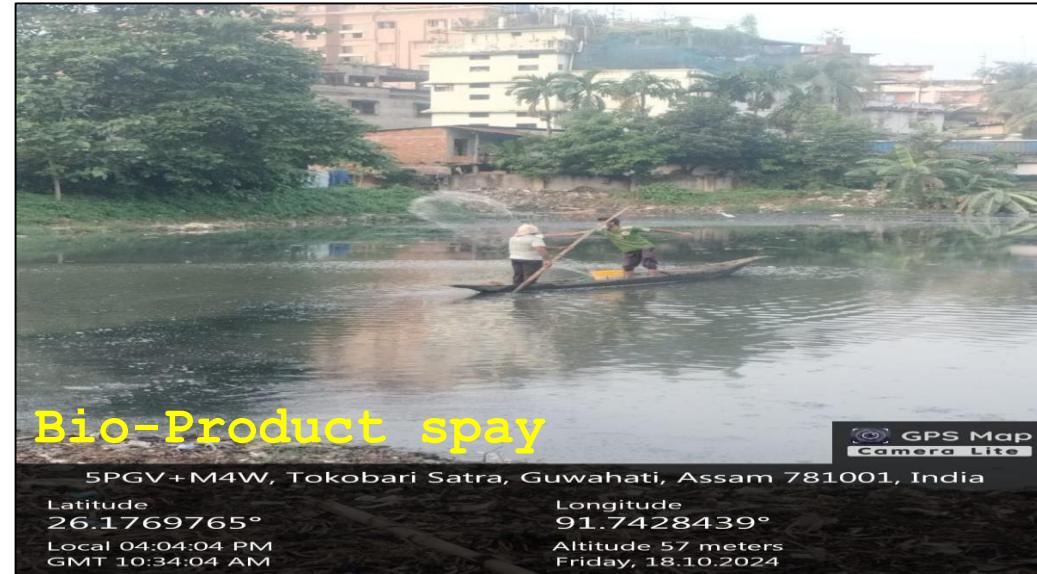
Bioremediation Work at Sarusola Beel



Your Complete Partner for Environment & Infrastructure



Bioremediation Work at Sarusola Beel



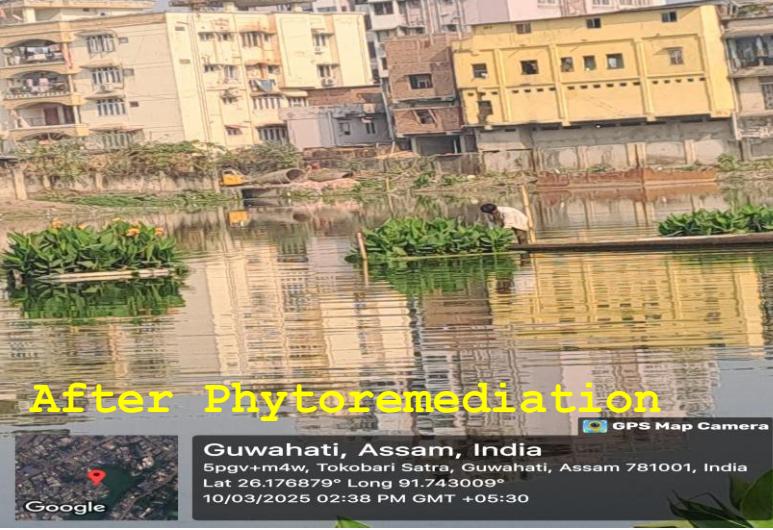
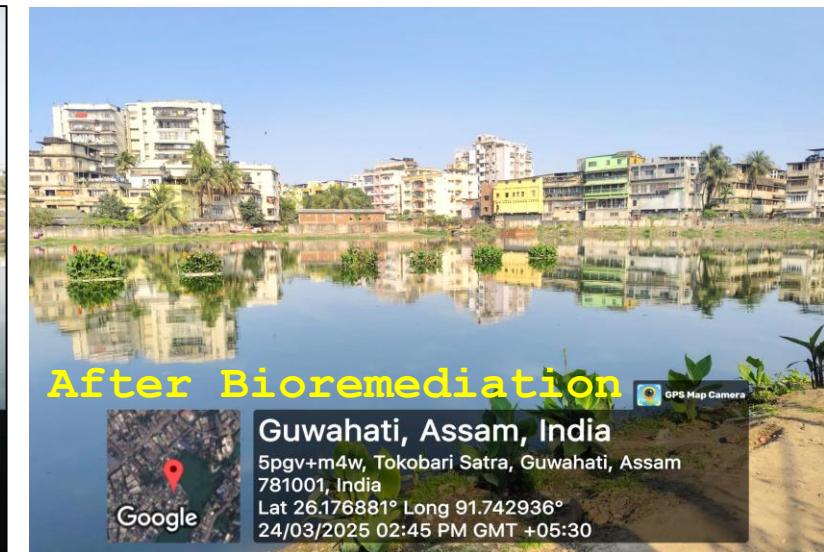
Your Complete Partner for Environment & Infrastructure

Bioremediation Work at Sarusola Beel



Bioremediation Work at Sarusola Beel

View of Sarusola Beel Success Story After Bioremediation

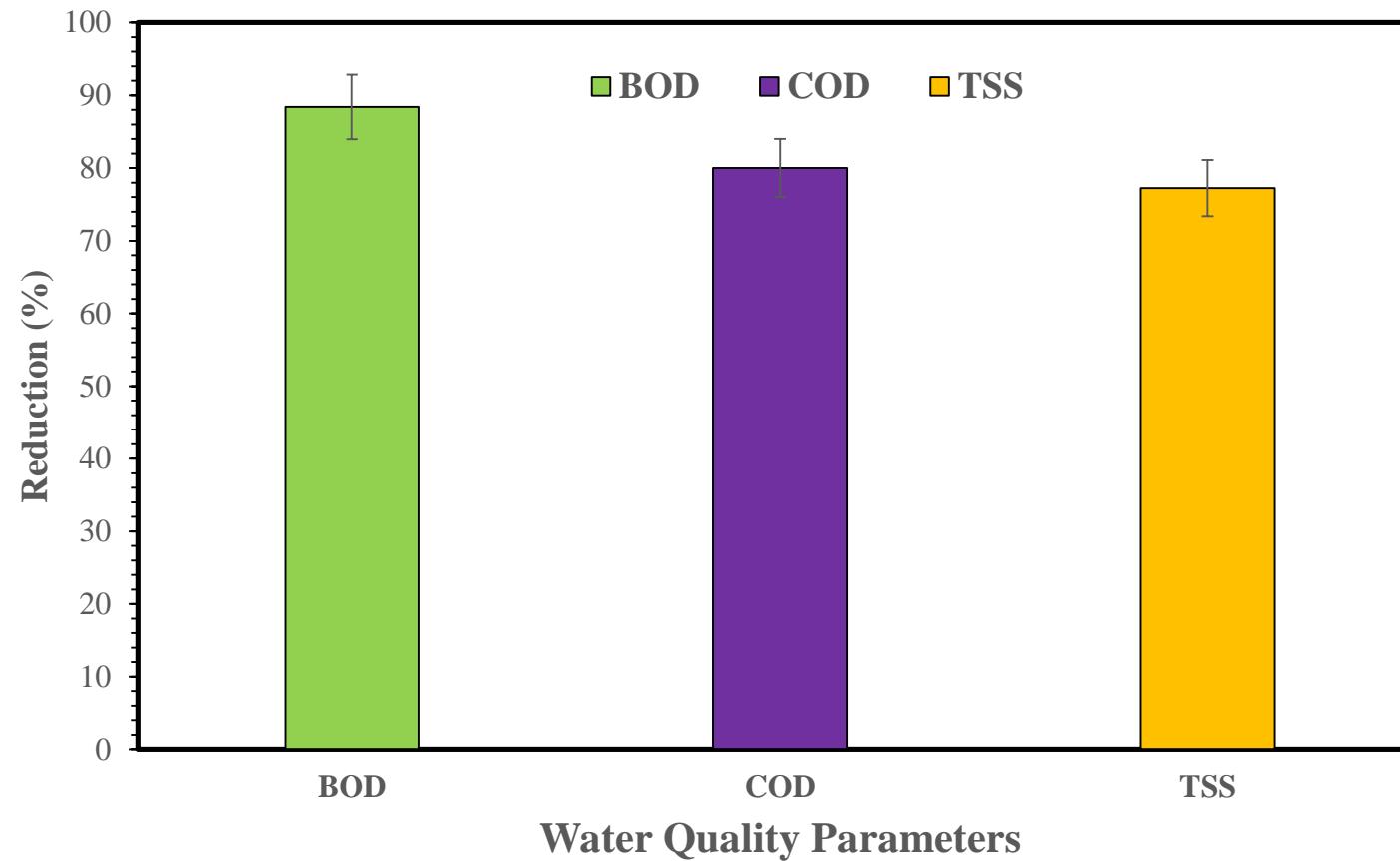


Your Complete Partner for Environment & Infrastructure

Reduction in pollution level in Sarusola Beel, Guwahati after Bioremediation Treatment Technology

Key findings:

- Sarusola Beel was contaminated with sewage pollutants.
- After treatment of lake wastewater through in-situ bioremediation, reduction of BOD (88%), COD (80 %), and TSS (77%) was observed.



Laboratory test reports of wastewater (Inlet & Outlet) of Sarusola Beel, Guwahati Recognized by NABL & Pollution Control Board of Assam

EREC India Research Laboratory
(NABL Accredited & GoA Recognized Lab)

TEST REPORT
(ETP WATER)

Report Date: 12/07/2024
Form No.: EREC/ETP/2024/047

Client Name	Guwahati Metropolitan Development Authority (GMDA)		
Client Address	3 rd Floor Staffed Building GMC Hospital Rd, Bhangarh, Guwahati, Assam, PIN- 781005		
Agency Name	Niltech Infrabuild Private Limited		
Sample ID No.	ETP-24/047		
Place of collection	Sarusola Beel, Tokbari, Chatribari	Source	ETP Water (Inlet)
Date of Sample Collection	09/07/2024	Sample Received Date	09/07/2024
Customer Reference No.	Nil	Test Completed On	12/07/2024
Latitude	26.1768473°	Longitude	91.74309026°

PHYSICAL AND CHEMICAL ANALYSIS:

Sl. No.	Test Parameters	Test Method	Unit	Requirement (Max. Desirable Limit) (As per CPCB guideline)	Result
1.	pH	IS 3025(pt-11):1983,Reaff 2002, Electrometric Method	--	5.5-9.0	6.3
2.	TSS	IS 3025(pt-17):1984	mg/l	100	235
3.	BOD	IS 3025(pt-44):1993	mg/l	30	72
4.	COD	IS 3025(pt-58):2006	mg/l	250	220

END OF THE REPORT

Authorized Signatory

Dr. M. Pathak,
CEO cum T.M.
N.B: 1. Result corresponds to sample submitted only 2. This report is prepared based upon the test results only.

Page 1 of 1

Initial Lab report (Inlet)

Office : EREC Lab, Rupnagar, Guwahati - 781032, Assam.
Phone No. : 90850-66613, 98640-66613, E-mail: mppguw@rediffmail.com

Scanned with CamScanner

en-VISION
Enviro Technologies North East
Technologies for better tomorrow

Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT:
Report No: 250225_15011362_1
ULR NO: TC766925000000634F
Sample ID No: EETNE/FEB/07/25
Test Starting Date: 18/02/25

Date of Report: 25/02/25
Date of sample receipt: 18/02/25
Test completion Date: 25/02/25

Name & Address of Client	Guwahati Metropolitan Development Authority(GMDA), Third Floor Staffed Building,GMC Hospital Rd,Bhangarh,Guwahati-781005.		
Agency Name	M/S. Niltech Infrabuild Pvt.ltd		
Sample Description	Type: Waste Water	Source: Sewage Water	Location: Drain 1 near Narmada building (Inlet)
Sample Collected By	M/s. En-vision Enviro Technologies North East, By Khairul Islam Sheikh Latitude:26.17813539° Longitude:91.74532403°		
Sample Collection Particulars	Date: 18/02/2025	Time: 11:50 A.M.	Temperature: 23°C
	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02	

SN	Parameters	Unit	Result	Method Followed by
1.	pH(at 25°C)	---	5.42	IS 3025 (Part 11) Electrometric Method : 2022
2.	Total Suspended Solids(TSS)	mg/L	189.2	APHA 24 th edition,2540 D, page no. 2-66:2023
3.	BOD	mg/L	79.4	IS 3025 (Part 44) :2023
4.	COD	mg/L	237.2	APHA 24 th Edition,5220 B,Page:5-18:2023
5.	Faecal Coliform	MPN/100ml	3250	APHA 24 th Edition,9221F, Page:9-78

NOTE: i)(BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand.
ii) The results relate only to the parameters tested and item sampled.
iii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By

UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

End of report

Page 1

Lab report (Inlet)

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.
Mobile : +91 98592 32126 / 94350 47496 e-mail : envisionghy@gmail.com

Scanned with CamScanner

en-VISION
Enviro Technologies North East
Technologies for better tomorrow

Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT:
Report No: 250225_15011362_1
ULR NO: TC766925000000634F
Sample ID No: EETNE/FEB/08/25
Test Starting Date: 18/02/25

Date of Report: 25/02/25
Date of sample receipt: 18/02/25
Test completion Date: 25/02/25

Name & Address of Client	Guwahati Metropolitan Development Authority(GMDA), Third Floor Staffed Building,GMC Hospital Rd,Bhangarh,Guwahati-781005.		
Agency Name	M/S. Niltech Infrabuild Pvt.ltd		
Sample Description	Type: Waste Water	Source: Sewage Water	Location: Drain 2 Near Shyam Temple (Inlet)
Sample Collected By	M/s. En-vision Enviro Technologies North East, By Khairul Islam Sheikh Latitude:26.17927815° Longitude:91.74404133°		
Sample Collection Particulars	Date: 18/02/2025	Time: 12:00 P.M.	Temperature: 23°C
	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02	

SN	Parameters	Unit	Result	Method Followed by
1.	pH(at 25°C)	---	6.96	IS 3025 (Part 11) Electrometric Method : 2022
2.	Total Suspended Solids(TSS)	mg/L	43.2	APHA 24 th edition,2540 D, page no. 2-66:2023
3.	BOD	mg/L	9.2	IS 3025 (Part 44) :2023
4.	COD	mg/L	18.9	APHA 24 th Edition,5220 B,Page:5-18:2023
5.	Faecal Coliform	MPN/100ml	260	APHA 24 th Edition,9221F, Page:9-78

NOTE: i)(BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand.
ii) The results relate only to the parameters tested and item sampled.
iii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By

UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

End of report

Page 1

Lab report (INLET)

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.
Mobile : +91 98592 32126 / 94350 47496 e-mail : envisionghy@gmail.com

en-VISION
Enviro Technologies North East
Technologies for better tomorrow

Recognized by Pollution Control Board, Assam

TC-7669

TEST REPORT:
Report No: 250225_15011362_2
ULR NO: TC766925000000635F
Sample ID No: EETNE/FEB/08/25
Test Starting Date: 18/02/25

Date of Report: 25/02/25
Date of sample receipt: 18/02/25
Test completion Date: 25/02/25

Name & Address of Client	Guwahati Metropolitan Development Authority(GMDA), Third Floor Staffed Building,GMC Hospital Rd,Bhangarh,Guwahati-781005.		
Agency Name	M/S. Niltech Infrabuild Pvt.ltd		
Sample Description	Type: Waste Water	Source: Sewage Water	Location: Sarusola Beel Front of Shiv Temple (outlet)
Sample Collected By	M/s. En-vision Enviro Technologies North East, By Khairul Islam Sheikh Latitude:26.1769917° Longitude:91.74299836°		
Sample Collection Particulars	Date: 18/02/2025	Time: 12:30 P.M.	Temperature: 23°C
	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02	

SN	Parameters	Unit	Result	Method Followed by	Permissible Limit(PCM)
1.	pH(at 25°C)	---	6.96	IS 3025 (Part 11) Electrometric Method : 2022	5.5-9
2.	Total Suspended Solids(TSS)	mg/L	43.2	APHA 24 th edition,2540 D, page no. 2-66:2023	100
3.	BOD	mg/L	9.2	IS 3025 (Part 44) :2023	30
4.	COD	mg/L	18.9	APHA 24 th Edition,5220 B,Page:5-18:2023	250
5.	Faecal Coliform	MPN/100ml	260	APHA 24 th Edition,9221F, Page:9-78	500-2500

NOTE: i)(BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand.
ii) The results relate only to the parameters tested and item sampled.
iii) The test report shall not be reproduced except in full, without written approval of laboratory.

For Envision Enviro Technologies North East

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By

UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

End of report

Page 1

Lab report (Outlet)

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.
Mobile : +91 98592 32126 / 94350 47496 e-mail : envisionghy@gmail.com

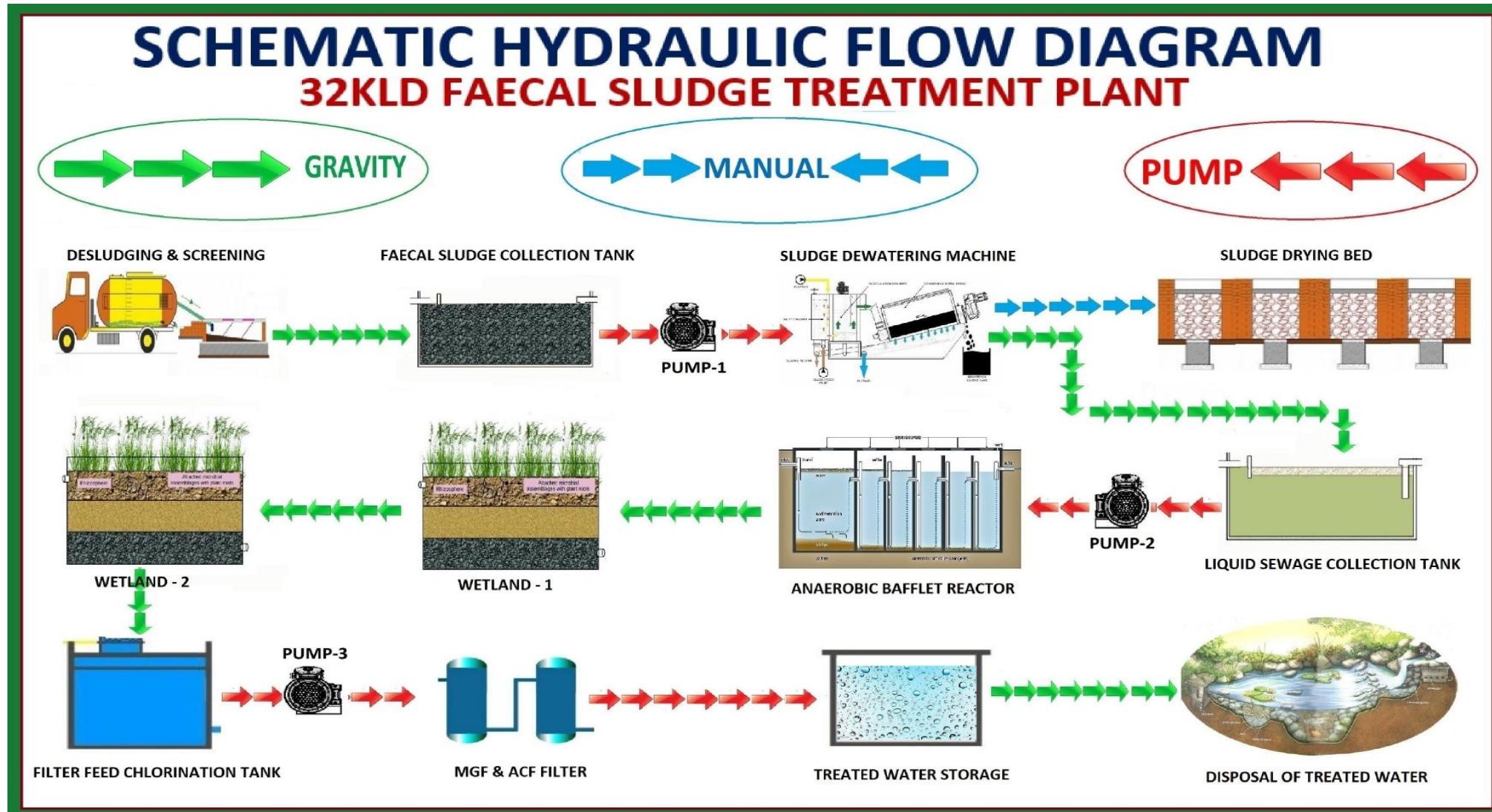


CASE STUDIES 3- Establishment of 32KLD FSTP in Baraut and Hapur cities of Uttar Pradesh under AMRUT Program

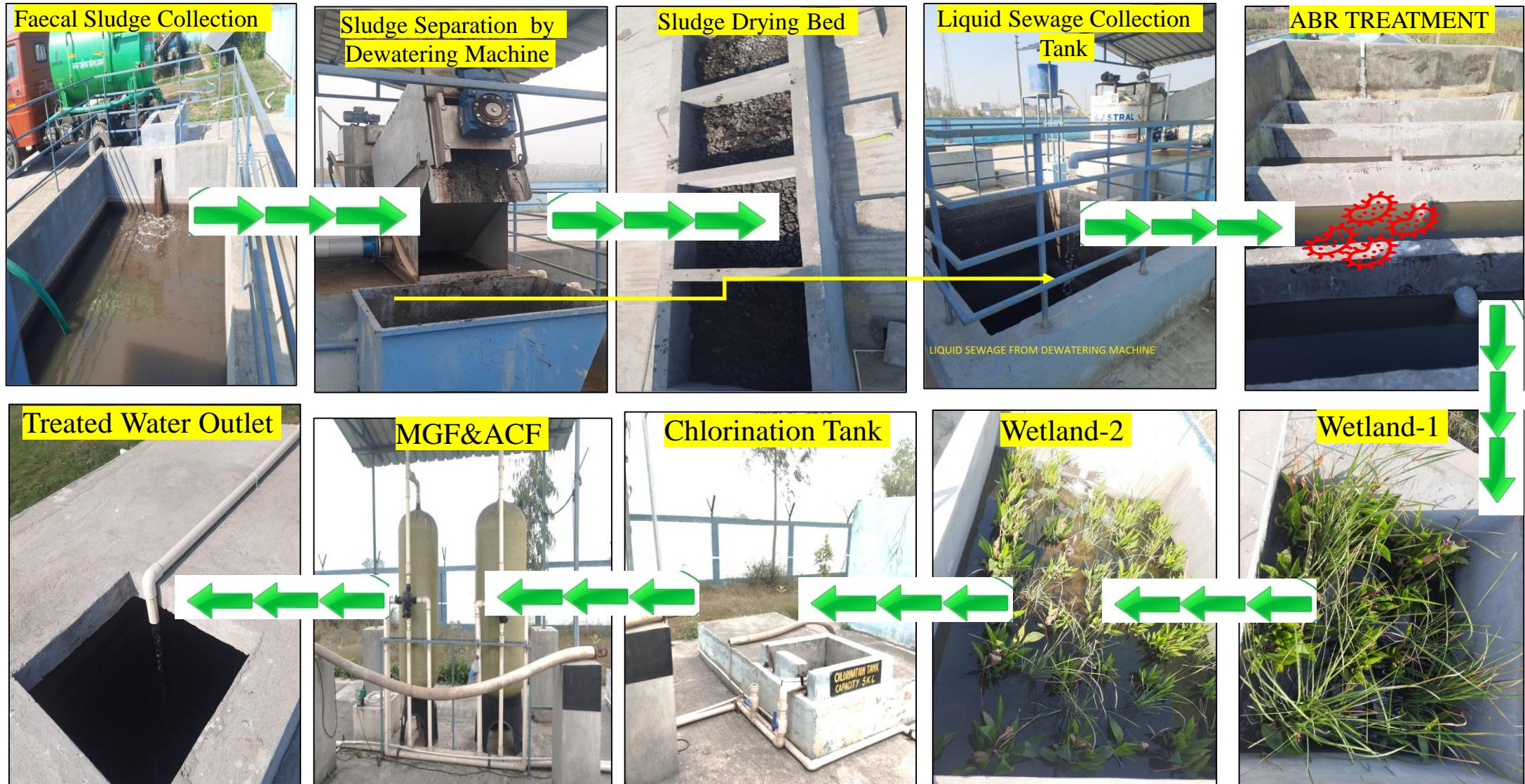
- ❖ Faecal sludge treatment plant (FSTP) is a facility that manages/treat faecal sludge from onsite sanitation systems by separating solid and liquid waste and treating it into water and vermicompost.
- ❖ We have established the first FSTP of Uttar Pradesh in Hapur and Baraut cities to fulfill the objective of completing the sanitation value chain.
- ❖ Capacity 32 Kilo liters per day (KLD) FSTP is designed to treat sludge waste generated from septic tanks.
- ❖ The treatment modules for solid components are: Feeding Tank (FT) with screen chamber, Sludge Separation by Dewatering Machine, Sludge Drying Bed (SDB) with Green House Solar Drier Roof (GHSD).
- ❖ Treatment modules for liquid components are: Integrated Settler, Anaerobic Baffled Reactor with filter chambers, Chlorination, Wetlands Multi Grade Filter (MGF) and Activated Corban Filter (AGF).
- ❖ The treatment system also consists of a co-composting unit where the dried sludge from the SDB is composted with municipal solid waste.



Establishment of 32KLD FSTP in Baraut and Hapur cities of Uttar Pradesh under AMRUT Program



32KLD FSTP Successfully Commissioned in Baraut and Hapur Cities of Uttar Pradesh under AMRUT Program



List of completed projects

Sr. No	Project Details	Client
1.	Construction of 32KLD FSTP plant, Hapur	UP Jal Nigam, Lucknow
2.	Construction of 32KLD FSTP plant, Baraut	UP Jal Nigam, Lucknow
3.	Treatment of Silsako Beel, Guwahati	Guwahati Metropolitan Development Authority, Assam
4.	Treatment of 91 drains through Bioremediation at Patna	Urban Development Ministry(UDHD), Bihar
5.	Treatment of 7 untapped & 4 tapped open drains by bio-remediation at Lucknow	Nagar Nigam Lucknow (UP)



List of Ongoing Bioremediation Projects

Sr. No	Project Title & Location	Client Name
1.	Bioremediation work to improve the discharge quality of untreated sewage in River and various lakes and various complex of sensitive sewage lines, drains of Ahmedabad Municipal Corporation, Ahmedabad (Gujarat)	Ahmedabad Municipal Corporation (AMC), Gujarat
2.	Treatment of Sarusola Beel through Bioremediation in compliance with the Hon'ble NGT order, Guwahati Assam	GMDA (Assam Government)
3.	Survey, design, implementation, monitoring, and operation & Maintenance for Bio-Remediation cum Phyto-Remediation based Wastewater Treatment System of identified 24 drains at different location within Municipal Jurisdiction of Moradabad Nagar Nigam, Moradabad (UP)	Nagar Nigam Moradabad (UP)



Media Coverage & Lab Reports

[आौडियो डाउनलोड होने का इतज़ार करें...](#)



सीएसआईआर- भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विश्वविद्यालय अभ्यन्तर, 31, महात्मा गांधी मार्ग, लखनऊ-226001, 3 प्र, उत्तर प्रदेश
VISHVIVYAN BHAWAN, 31, MAHATMA GANDHI MARG, LUCKNOW-226001, U.P., INDIA
Phone: +91-522 2628226, 2627568, 2614118; Fax: +91-522 2628227, 2611047 rpb@iitindia.org www.iitindia.org



Date: 04.01.2021

ANALYSIS REPORT

- | | |
|------------------------|--|
| 1. Sample Registry No. | SSP-440 |
| 2. Nature of Sample | Drain Water Sample of Lucknow |
| 3. Sealed/Unsealed | Unsealed |
| 4. Number of samples | 14 |
| 5. Date of Collection | 24.12.2021 |
| 6. Date of Analysis | 29.12.2021 |
| 7. Method of analysis | As per APHA/AWWA; 23 rd Edn. (201 |
| 8. Sample collected by | IITR staff |
| 9. Results | |

S.No	Sampling Site	Result			
		pH	TSS mg/L	COD mg/L	BOD mg/L
1	Sahara City (INLET)	7.89	228.00	297.92	80.00
2	Sahara City (OUTLET)	8.01	54.00	70.60	17.00
3	Gomti Nagar (INLET)	7.66	262.00	360.64	95.00
4	Gomti Nagar (OUTLET)	8.23	60.00	78.40	22.00
5	Gomti Nagar Ext. (INLET)	8.05	190.00	313.60	120.00
6	Gomti Nagar Ext. (OUTLET)	8.32	46.00	78.40	28.00
7	Faizullahganj D/S (INLET)	8.12	246.00	282.24	100.00
8	Faizullahganj D/S (OUTLET)	8.49	58.00	62.70	24.00
9	Faizullahganj U/S (INLET)	8.01	290.00	392.00	90.00
10	Faizullahganj U/S (OUTLET)	8.27	68.00	86.24	20.00
11	Ghaila (INLET)	7.89	338.00	329.30	105.00
12	Ghaila (OUTLET)	8.12	80.00	70.56	22.00
13	Bairikala (INLET)	7.78	256.00	266.60	90.00
14	Bairikala (OUTLET)	7.92	62.00	62.70	22.00
Standard Uncertainty \pm		0.14	2.8	2.92	5.60

1. The report pertains to the sample tested only.
2. This report shall not be used or produced in fragments.
3. This report shall not be used for any other purpose than declared by the sponsor.
4. IITR is not a regulatory and certifying agency hence no part of this report should be used for legal purposes under any circumstances.


(Dr. D. K. Patel)
Sr. Principal Scientist



CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH

विष्वविद्यालय अध्यक्ष, 31, महात्मा गांधी मार्ग, लखनऊ-226001, U.P., INDIA
VISHVIVIGYAN BHAWAN, 31, MAHATMA GANDHI MARG, LUCKNOW-226001, U.P., INDIA
 Phone: +91-522-262828, 2627566, 2614118. Fax: +91-522-2628227, 2611547 rpbd@iitindia.org www.iitindia.org

Date: 03.02.2022

ANALYSIS REPORT

- | | |
|--------------------------|--|
| 1. Sample Registry No. : | SSP-440 |
| 2. Nature of Sample : | Drain Water Sample of Lucknow |
| 3. Sealed/Unsealed : | Unsealed |
| 4. Number of samples : | 14 |
| 5. Date of Collection : | 20.01.2022 |
| 6. Date of Analysis : | 21.01.2022 |
| 7. Method of analysis : | As per APHA/AWWA; 23 rd Edn. (2017) |
| 8. Sample collected by : | IITR staff |
| 9. Results : | |

S.No	Sampling Site	Result			
		pH	TSS mg/L	COD mg/L	BOD mg/L
1	Ghaila (INLET)	7.44	408.00	496.60	125.00
2	Ghaila (OUTLET)	7.66	114.00	147.40	35.00
3	Bairikala (INLET)	7.56	86.00	279.40	62.50
4	Bairikala (OUTLET)	7.58	24.00	77.60	17.50
5	Faizullahganj D/S (INLET)	7.78	230.00	310.40	65.00
6	Faizullahganj D/S (OUTLET)	7.87	40.00	85.40	18.00
7	Faizullahganj U/S (INLET)	7.45	344.00	170.70	40.00
8	Faizullahganj U/S (OUTLET)	7.66	102.00	46.60	10.00
9	Sahara City (INLET)	7.27	118.00	294.90	70.00
10	Sahara City (OUTLET)	7.63	34.00	85.40	20.00
11	Gomti Nagar (INLET)	7.63	116.00	341.40	77.50
12	Gomti Nagar (OUTLET)	7.08	24.00	100.90	22.50
13	Gomti Nagar Ext. (INLET)	7.15	256.00	325.90	82.50
14	Gomti Nagar Ext. (OUTLET)	7.40	64.00	93.10	22.00
Standard Uncertainty ±		0.14	2.8	2.92	5.60

1. The report pertains to the sample tested only.
 2. This report shall not be used or produced in fragments.
 3. This report shall not be used for any other purpose than declared by the sponsor.
 4. ITR is not a regulatory and certifying agency hence no part of this report should be used for legal purposes under any circumstances.

(Dr. D. K. Patel)
Sr. Principal Scientist
Analytical Chemistry Division



VJTI Lab report showing reduction in pollution level of sewage wastewater before & after bioremediation



V J T I
Veermata Jijabai Technological Institute
(Central Technological Institute, Maharashtra State, INDIA)
H. R. Mahajani Marg, Matunga, Mumbai 400019
Tel.No. +91 22 24198100 Fax: +91 22 24102874
www.vjti.ac.in

CIVIL & ENVIRONMENTAL ENGG DEPARTMENT
TECHNICAL TEST REPORT

.21 APR 2023

10/04/2023

Tested for	Brihanmumbai Municipal Corporation.
Reference	Dy/CH.E/S.O./3993/P&C/ JMIET/Mum-181/MGCM-RAPOKTAHG/2022-26-2023/67. Date : 28/03/2023
Sub.	Rehabilitation of Ghatkopar WWTF –Treatment of Sewage Water by Bioremediation Technology Testing of Inlet Outlet Sewage Water Sample
Name of Agency	M/s. J.M.Infra & Enviro Technologies Pvt. Limited
Date of Sample received in Laboratory	28/03/2023
Date of Sample Testing	28/03/2023, 29/03/2023 & 05/04/2023

TEST ON INLET AND OUTLET SEWAGE WATER SAMPLES:

OBSERVATIONS & RESULTS :

Sr. No.	Test	Observation	
		Inlet	Outlet
1	pH value	6.5	8.1
2	C.O.D.	262 mg/l	36 mg/l
3	B.O.D ₅ @20°C	91 mg/l	6 mg/l
4	Total Suspended solids	56 mg/l	36 mg/l

Hayyaad
I/C Environmental Engg.Laboratory

Head, Civil & Env. Engg. Department

Director



V J T I
Veermata Jijabai Technological Institute
(Central Technological Institute, Maharashtra State, INDIA)
H. R. Mahajani Marg, Matunga, Mumbai 400019
Tel.No. +91 22 24198100 Fax: +91 22 24102874
www.vjti.ac.in

CIVIL & ENVIRONMENTAL ENGG DEPARTMENT
TECHNICAL TEST REPORT

.28 AUG 2023

21/08/2023

Tested for	J.M.Infra & Enviro Technologies Pvt. Limited 103, Rudraksha Building, Nariman Road,Vile Parle (East) Mumbai 400057
Reference	Nil Date :02/08/2023
Sub.	Rehabilitation of Ghatkopar WWTF –Treatment of Sewage Water through Bioremediation Technology
Name of Agency	M/s. J.M.Infra & Enviro Technologies Pvt. Limited
Date of Sample received in Laboratory	02/08/2023
Date of Sample Testing	03/08/2023, 04/08/2023 & 10/08/2023

TEST ON INLET AND OUTLET SEWAGE WATER SAMPLES:

OBSERVATIONS & RESULTS :

Sr. No.	Test	Observation	
		Inlet	Outlet
1	pH value	6.6	6.8
2	C.O.D.	214.20mg/l	42.84mg/l
3	B.O.D ₅ @20°C	65 mg/l	10 mg/l
4	Total Suspended solids	84 mg/l	18 mg/l

Hayyaad
I/C Environmental Engg.Laboratory

Forwarded,
Head, Civil & Env. Engg. Department

Director



V J T I
Veermata Jijabai Technological Institute
(Central Technological Institute, Maharashtra State, INDIA)
H. R. Mahajani Marg, Matunga, Mumbai 400019
Tel.No. +91 22 24198100 Fax: +91 22 24102874
www.vjti.ac.in

CIVIL & ENVIRONMENTAL ENGG DEPARTMENT
TECHNICAL TEST REPORT

TST/5/CIVIL/PHEL/5550/70393/05/2023 | 4653

08/11/2023

16 NOV 2023

Tested for	J.M.Infra & Enviro Technologies Pvt. Limited 103, Rudraksha Building, Nariman Road,Vile Parle (East) Mumbai 400057
Reference	Nil Date :20/10/2023
Sub.	Rehabilitation of Ghatkopar WWTF –Treatment of Sewage Water through Bioremediation Technology
Name of Agency	M/s. J.M.Infra & Enviro Technologies Pvt. Limited
Date of Sample received in Laboratory	20/10/2023
Date of Sample Testing	20/10/2023, 27/10/2023 & 01/11/2023

TEST ON INLET AND OUTLET SEWAGE WATER SAMPLES:
OBSERVATIONS & RESULTS :

Sr. No.	Test	Observation	
		Inlet	Outlet
1	pH	7.01	7.09
2	C.O.D.	152.32 mg/l	48.46 mg/l
3	B.O.D ₅ @20°C	60 mg/l	8 mg/l
4	Total Suspended solids	82 mg/l	19 mg/l

Hayyaad
I/C Environmental Engg.Laboratory

Head, Civil & Env. Engg. Department



Major Clients



**Uttar Pradesh
Jal Nigam (Urban)**



**Guwahati Metropolitan
Development Authority**



बिहार सरकार
Urban Development Ministry
(UDHD)



**NILETECH INFRABUILD
SINCERELY THANKS YOU
FOR YOUR KIND
ATTENTION**

