



The reliable
environment partner

PARYAAVARNEER



About Us

Paryaavarneer Engineers & Consultants Private Limited (PEC) is a professional, total environment management company. PEC specializes in offering comprehensive and integrated solutions for specific industry or application.

We have the domain expertise to offer integrated package comprising consulting, legal compliance, design, supply, installation, commissioning and operations. We offer end-to-end services and fulfill all the environmental requirements of your organization.

COMPANY DETAILS:



More than
12,000 m³
per day of wastewater
being recycled



More than
17,000 m³
per day of drinking water
being treated



More than
25
water and wastewater
treatment projects executed



Team of
10
Environmental Engineers
and environment experts



Workforce of more than
140
people across karnataka



40+
delighted customers
across various sectors

Management Team

Mr. Arjun R

Chairman & Managing Director

Environmental Engineer with 12 years of experience in water treatment, wastewater treatment & reuse, wastewater management, zero liquid discharge, water audit, environmental compliance management. As Managing Director of Paryaavarneer Engineers & Consultants Pvt Ltd, leading a team of environmental engineers, and establishing sustainable treatment facilities for betterment of Environment. His key achievements include development and implementation of fully Automatic treatment plants under "IoTreat", Design and development of efficient treatment plants for domestic and industrial wastewater.

He is a lead assessor for ISO 9001:2015 and is a Chartered Engineer by Institute of Engineers. He is a member of International Water Association (IWA) and has been an active member of the Expert Committee for Infrastructure, Energy, Environment and Water of BCIC.

Mr. Ravitej Hegde

CEO & Director

Environmental engineer with 12 years of experience in Environment Management and ESG. Previously worked in steel and automobile sector with core expertise in water and wastewater engineering, Sustainability, climate change advisory, ESG reporting etc.

He is an assessor for CII Sustainability Awards and CII Climate Action Program and have assessed over 20 organizations as a lead assessor. He is also recognized as the best assessor for CII sustainability Assessment. As an active member he is also a member of ESG committee of Bangalore Chamber of Commerce and Industries.

Mr. Raghu H

Director

B.Sc. in Chemistry graduate. He is a veteran of over 40 years in the field of aromatic and fertilizer chemicals manufacturing, water treatment plants stabilization and efficiency enhancement, mechanical equipment installation and maintenance.



Scan for video of IoTreat®











IoTreat® is an IIoT based platform for the efficient and unmanned operation of treatment plants such as STP, ETP, WTP, RO. IoTreat integrates the ideal operational practices of the treatment plants derived from Environmental Engineering principles with IIoT platform to eliminate manual operation & improve plant performance.

PEC is recognized by Ministry of Commerce & Industry as a startup for its IoTreat® product.

Pain points of Manual operation

A treatment plant will not be able to give desired results mainly because of 2 reasons which are inadequate infrastructure and improper operation.

Improper operation can happen when operation is being done manually. Manual operation is having many pain points and challenges which affects efficiency of treatment and eventually may lead to failure of the plant.

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| Quality deviations | Higher operational cost | Lesser data availability | Higher power consumption | Health and safety risks | No possibility of predictive maintenance | No possibility of real time monitoring | Uncertainties related to labour regulations |

Benefits of IoTreat®

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| Reduction in cost of operation by 30-50% | Consistent quality of treated water | No full time operator is required | Minimum of 20% reduction in power consumption |
|  |  |  |  |
| Real time monitoring of the treatment process | Operational data availability in digital form | No possibility for human errors | Reduced breakdown |

Return on Investment (RoI)

RoI will depend on size of the plant, and current operational practices in case of an existing plant . Considering 3 shift operation with 1 manpower in each shift, RoI will be 1-3 years.

Our Value proposition

- | | | | | | | | |
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| Developed Environmental Engineers | In house automation team | Vast experience in manual operation | Dedicated service team | 24x7 CCTV surveillance | Alarms through mail & SMS | Equipment health tracker | Daily report through WhatsApp & mail |

Designed by Environmental Engineers, we choose right technology for specific location, considering extent of reuse, space availability, budget availability, ground aspects, ease of operation and product life.



Sewage Treatment Plant (STP)

PEC develops sewage treatment solutions that are adapted to local site conditions, and are aimed at treating the sewage to meet the quality required for the intended application of the treated water. PEC takes the due consideration of operational ease of the plant, an insight gained by the operation and maintenance of the STPs. Based on the customer requirement, we supply STPs of following proven technologies:

SBR

ASP

Reedbed

MBR

MBBR

Our expertise also lies in:



Effluent Treatment Plant (ETP)

Our ETP solutions are developed by assessing effluent characteristics, variations in the characteristics and industrial processes. Our end-to-end solutions are designed in consideration with applicable discharge standards, intended use of treated water, operational cost, waste generation and its disposal. We possess the capabilities to provide ETP solutions to various sectors and for effluent with varied characteristics.



Water Treatment Plant (WTP)

From residential complex to the industrial processes, we aim to provide the most apt solution to our customer. We focus on the intended use of treated water, while deciding the appropriate technology. We design and manufacture

Filters

Clarifiers

Softener

Reverse Osmosis (RO) Plant

Demineralisation (DM) Plant



◀ Speciality Chemicals

Our chemicals help Customers to improve the performance of treatment, control deviations in quality and in better management of water. Our chemical portfolio includes :

- Pre-treatment Chemicals (coagulants, flocculants, defoamers)
- Cooling Tower Chemicals (scale inhibitor, corrosion inhibitor, bio-dispersant, biocide, cleaner for chiller)
- RO Chemicals (antiscalant, biocide, membrane cleaner)
- Boiler Chemicals (Oxygen scavenger, filming & neutralizing)



◀ Filters

Our filtration systems are designed after understanding the specific need for filtration and expectations from the customer. Different types of filters that we manufacture are :

- Pressure Sand Filter (PSF)
- Activated Carbon Filter (ACF)
- Dual Media Filter (DMF)
- Micron Cartridge Filter (MCF)



◀ Reverse Osmosis (RO) & Ultrafiltration (UF) Membrane

We deal with TORAY make RO & UF membrane, which provides high membrane area and low fouling rate compared to other membranes. TORAY is a Japanese manufacturer of membranes since 1967 and world's largest manufacturer of membranes. TORAY has 4 distinguished class of RO membranes with minimum salt rejection of 99.5%.

- Brackish Water : For low TDS water in the range of 200-5000 mg/L
- Low Fouling : To treat water with high fouling tendency
- Sea Water : For high TDS water with TDS more than 5000 mg/L
- Speciality : For speciality applications such as Food, Dairy, Beverages, Pharmaceutical and Heat Sanitizable application etc.

OTHER PRODUCTS

- Fine & coarse bubble diffusers
- Filter media (sand, gravel, activated carbon)
- Dosing pumps & systems
- Level sensors
- Flow meters
- Filter press, screw pump & centrifuge
- Parshall flume & weir
- Bulk chemicals
- Lab instruments, glasswares & chemicals
- Multiport valves
- Continuous Emission Monitoring System
- MBBR media
- Blowers & pumps
- Agitators & mixers
- Oil & grease skimmer
- Water Testing kits
- Bag filters
- Biogas plant

Our professional services are aimed at handholding our clients in solving the critical environmental issues and our team of professionals work with clients to bring out tangible solutions.



OPERATIONS MANAGEMENT

Operation & Maintenance of environmental facilities

Our focus is to provide reliable and efficient services for the operation and maintenance of environment facilities by leveraging strong daily management set-ups, innovative solutions, advanced technologies and involving experts into action.

Why us?

- Dedicated team of environmental engineers to supervise
- Digitalized tracking of the operation and maintenance activities and performance
- Trained operators and regular skill development programs for the operators
- Regular and seamless communications to the customer
- System driven O&M management
- Monthly performance reports
- Enhancing performance of the plants by working with clients to act on opportunities for improvement

We operate following environmental facilities:

- Sewage Treatment Plants (STP) - Sequencing Batch Reactors (SBR), Activated Sludge Process (ASP), Fluidized aerobic beds/ Moving Bed Bio Film Reactors (MBBR), Membrane Bio Reactors (MBR)
- Water and Wastewater Treatment Plants (WTP / WWTP) - conventional water treatment, Demineralization (DM) plants
- Effluent Treatment Plants (ETP)
- Waste management facilities - Incinerators, composting units, Refused Derived Fuel (RDF) units, biogas plants
- Air pollution control facilities - bag filters

SERVICES

Environmental Compliance Management

Our legal compliance management services aim at providing comprehensive solution for clients to comply with legal requirement and effectively monitor and sustain the compliance management.

Why us?

- End-to-end solution and ontime completion for organizations
- Assistance to set up monitoring and reviewing mechanism to sustain the compliance
- Training client team on compliance management - requirement and importance
- Customized packages for MSMEs for one-time and continued compliance management

Our consents/ filings assistance include, but not limited to:

- Consent for Establishment (CFE/CTE)
- Consent for Operation (CFO/CTO)
- Hazardous and other waste authorization
- Environmental Clearance (EC)
- Extended Producer Responsibility (EPR) - Plastic Waste, e-waste, battery, Tyre Waste
- Legal filings (environment statement, manifests etc.)



Corporate Sustainability Advisory and Sustainability Reporting

Our team of sustainability professionals assist our clients in establishing an overarching structure to drive Environment, Social and Governance (ESG) related activities. We work with the core team in identifying the material issues, developing sustainability metrics and establishing core team to drive the activities.

Why us?

- Team of experts in the field of corporate sustainability and governance
- We work with existing system in the organization to drive change
- Global exposure of the core team with various sustainability organizations
- Developing stakeholder specific communication plan for the report

Our sustainability reporting team provides comprehensive reporting solutions from data compilation to design and communication of the report. We assist our clients in reporting sustainability performance according to the following global frameworks/ guidelines:

1. GRI standards
2. IIRC guidelines (integrated reporting)
3. TCFD recommendations
4. Carbon Disclosure Project (CDP)
5. Dow Jones Sustainability Index
6. Business Responsibility Reporting

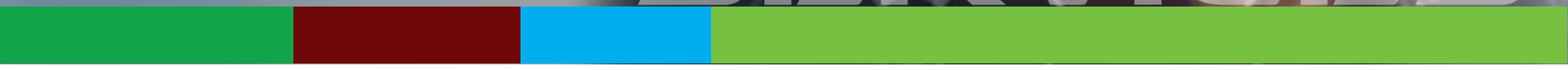
Greenhouse Gas Inventorization

Reducing greenhouse gas (GHG) emissions and addressing climate change is a critical priority for businesses and organizations worldwide. At Paryaavarneer, we offer comprehensive GHG inventorization services that enable you to accurately measure, monitor, and manage your carbon footprint. Our services provide the necessary tools and expertise to help you develop effective sustainability strategies and achieve your emissions reduction goals.

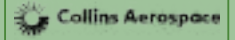
Services Offered:

- Green House Gas inventorization and data management standardisation
- Development of strategic roadmap and advisory
- Training and capacity building
- GHG reporting

SERVICES



OUR CLIENTS



OUR PROFESSIONAL MEMBERSHIPS



Confederation of Indian Industry



Bangalore Chamber of Industry and Commerce



RECOGNITION



One among the top 50 Startups in the VentuRise Global Startup Challenge.



2nd prize in TiE Hubli Startup challenge for our product lotreat



Awarded in Times Business Awards Given by Times Group



Awarded in CII Southern Region Water Management Competition 2023

PARYAAVARNEER
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