



**Enhance Ecotech**  
Solution Pvt. Ltd.

*Save Water Save Life*

An ISO : 9001: 2015 Certified Company



# ENHANCE ECOTECH SOLUTION PVT. LTD

## CORPORATE BROCHURE

Water &  
Wastewater Treatment



## About Us:

### “SAVE WATER , IT WILL SAVE YOU

Water is life, water is growth, and Your Water is our Concern. At your day to day life, at your leisure for your health, your business and your industrial processes. Without water there would be no Life, No Agriculture, and No Industry .

**ENHANCE ECOTECH** – Aims to improve the quality of life and the efficiency of your processes by Providing State of Art Water and Waste Water treatment systems, with over decade of experience in industry.

EESPL has been supplying complete Turnkey Water Treatment Plant STP, ETP, DM Plant, RO Softener Plant on Turnkey Project Basis Pan India.

We also Provide Plant Operations & Maintenance Contracts, Air Pollution Control etc. Plant to Industries and Companies around the world. It's Always our ambition to add value to our customers by providing those with technologies and systems that help them recycle Maximum amount of waste water

Together, we are committed to minimizing water wastage by recycling every drop of water.

*“Whether you own, operate, or help manage a municipal or industrial facility that deals with waste water, it's important to understand how wastewater treatment can play a significant role in the overall health of your business.”*

\*\* We are one of the Leading & Renowned  
Manufacturers of Water Treatment Plants \*\*

### ENHANCE ECOTECH

We have been in the water and wastewater treatment business for almost a decade. We take pride in ourselves to be one of the pioneers of high quality water treatment with the latest emerging technologies in the industry.

#### TEAM

**160 Employees**

#### REACH

**Across India / Abroad**

#### ACTIVITIES

**WTP , STP , ETP , DM Plants**

#### QUALIFIED WORKFORCE

**24 X 7 Support**

#### ECONOMICAL SOULTIONS

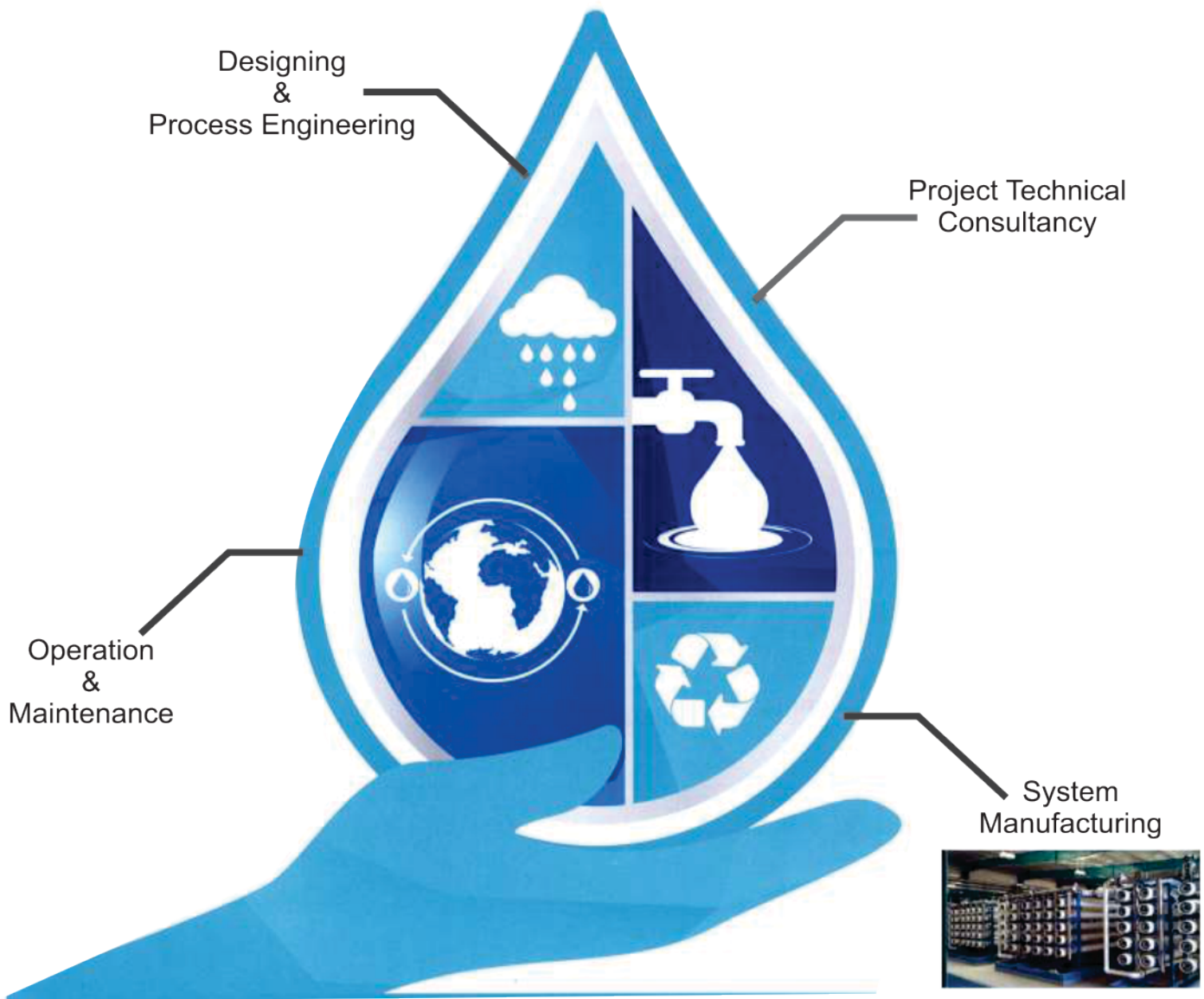
**40 % Repeated Client**

#### QUALITY WORK ASSURANCE

**Innovation Design & Engineering**



# ONE STOP FOR ALL YOUR WATER & WASTE WATER TREATMENT NEEDS



## BUSINESS VERTICALS

Standard Plant	Waste Water Division	AMC Division	Turnkey Projects
RO Plants	Effluents Treatment	Operations & Maintenance	Multi Effect Evaporator
DM Plants	Sewage Treatments	AMC	Food Processing Solid & Water Management
Softener Plants	Waste Water Treatment	Project Technical Consultancy	Distillation Equipment
Water Filtration	Zero Liquid Discharge	NOC Compliances CTE/CTO for Industries	Process Separation



# INDUSTRIAL SOLUTIONS

## OUR ADDED VALUE



- A Wide Range of Solutions
- Standard Range
- Custom Tailored Installation
- Core Competency
- Low Odor Compared to Traditional Waste Water Treatment
- Low Opex
- Integrated Solutions
- Low Down Time
- Quality Assurance
- Cutting Edge Technology
- Extensive Service Support
- Energy Saving
- Turnkey Solutions
- High Recovery System

## INDUSTRIAL PROCESSES

Water is a precious and universal good. Without water, There would be no life, no agriculture, and no industry. 90% of our worldwide demand for water comes from Industry and agriculture. Our technologies allow you to Optimize your water consumption and utilize alternative Water sources to reduce operating and energy costs And improve your production process. Thanks to our Know-how and engineering skills, our experts advise, Design and build the installations for your water facilities. That is how we take care of water so you can focus on Your core business





# Solar Energy Based Electrolytic Defluoridation Plants



## EFFLUENT TREATMENT PLANT

EESPL provides effluent treatment solutions for various types of industrial waste water. Customized systems to suit the wide variety of effluents and to maintain efficiency are provided to industries – systems based on physico-chemical and biological treatments and membrane separation are offered to suit efficiency. We have the experience and capability to design and commission a host of clarifiers, filters, aeration, coagulation and settling systems for waste from industries like chemicals, drugs, Pharma, refineries, leachates, etc. Recycle and reuse of treated effluents is profitable in the ever deteriorating environment of water scarcity. Reverse osmosis, ultra-filtration systems and other tertiary treatment processes make this possible for industries keen on resource optimization.

## SEWAGE TREATMENT PLANT

### MBR BASED STP

MBR technique, a new method for wastewater treatment, integrates membrane separation and biotechnology, rejects activated sludge and macromolecular organic matter in aerobic tank/MBR tank with membrane separation plant, thus saving the use of secondary sedimentation tank. Consequently, the concentration of activated sludge rises greatly, the HRT and the SRT could be controlled separately, and difficult degraded matters are constantly degraded and reacting in reactor. Therefore, compared to traditional biological treatment methods, MBR technique greatly strengthens the function of the bioreactor with the using of membrane separation. Fig. shows the typical MBR concept of combination of Activated sludge process and membrane filtration.

### MBBR BASED STP / FAB BASED STP

Moving Bed Bio Reactor (MBBR) Fluidized Aerobic Bio-Reactor (FAB) MBBR is a variant of submerged aerated filter technology. It provides a small footprint solution for

carbonaceous, nitrification, C+N or in anoxic mode for de-nitrification treatment with very low capital and operating costs together with a low head loss. The MBBR can be designed as a small footprint process solution for a new works, or as a retro-fit to an existing activated sludge plant to increase capacity and improve effluent quality. It can also be operated in applications of high ammonia concentration – such as sludge liquor treatment or leachate treatment - with the continuously moving bed format in order to provide the oxygenation required for the higher load.

### **SBR BASED STP**

Sequencing Batch Reactor (SBR) SBR is a fill-and-draw Extended Aeration System for sewage treatment. In this system, sewage is added to a single "batch" reactor and all the Equalization, aeration, and clarification can all be achieved using a single batch reactor. It is true sequencing batch system and able to provide consistent effluent quality to desired limits. SBR is designed to minimize operation and maintenance cost all equipments accessible from side the plant eliminating the need to dewater. Power requirement is very less due to intermittent operation of pumps and blower. The overall power consumption is 60% compared to other all process.

### **SOLAR BASED DE FLUORIDATION SYSTEM**

The process is based on the principle of electrolysis by passing Direct Current (DC) obtained from solar photovoltaic cells through aluminium plate electrodes placed in fluoride containing water. During the process aluminium plate connected to anode dissolves and form polyhydroxy aluminium species which remove fluoride in water by complex formation followed by adsorption and removal by settling. EDF technology provides a technically sound, cost-effective and reliable community drinking water defluoridation system for supplying safe drinking water, which meets the guideline value (1 mg/L) of the World Health Organization (WHO) for fluoride. Solar power based electrolytic defluoridation demonstration units were successfully installed at 4 places in India in the fluoride affected villages during the period of 2008 to 2011.

## **CORPORATE SOCIAL RESPONSIBILITY**

The phrase, "people, planet, and profit" to describe the triple bottom line and the goal of sustainability, was coined by John Elkington in 1994. Traditionally, business leaders were concerned with the monetary profits their businesses made but today more and more leaders have come forward to have a cyclic process scheme of reusability instead of linear model and also began thinking about Sustainable Business Model. The triple bottom line theory of Elkington includes other performance index of People and Planet as well apart from Profit which helps in giving it a complete sustainable model.

At EESPL we contribute our bit to the environment to protect the planet. This not only helps in betterment of our environment but also induces sustainable development in our business model.



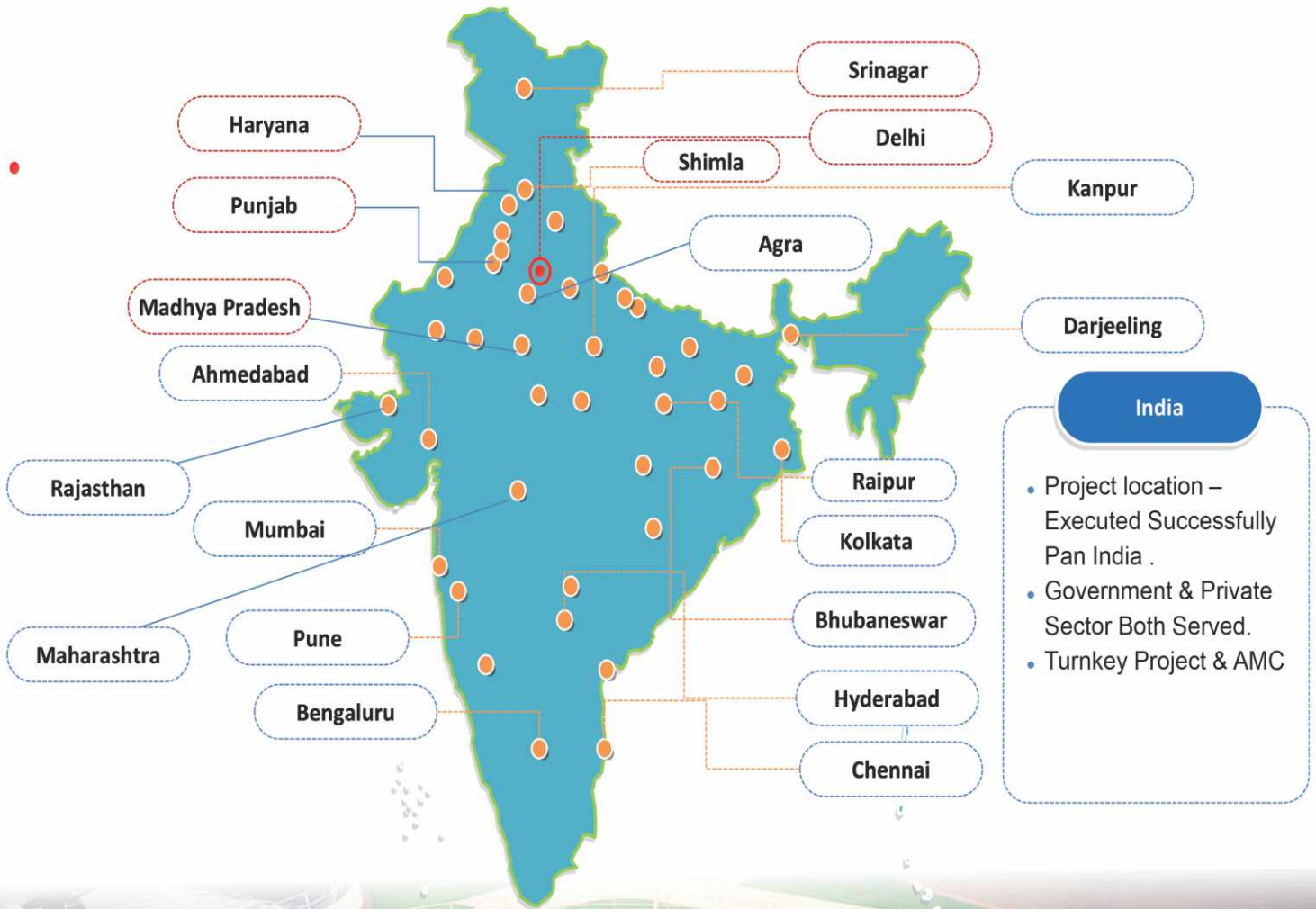


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# OUR PROJECTS IN INDIA



- India**
- Project location – Executed Successfully Pan India .
  - Government & Private Sector Both Served.
  - Turnkey Project & AMC



Workshop Address : Bhakhri, Badkhal-PaliRoad, Near Achiever Builder,  
Sector-49, Faridabad-121001 (Haryana)

Office: B-184, 2nd Floor Gupta Ji Plaza, Green Field Colony Faridabad -121010 (Haryana)

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