Design, Drawing, Consultancy, Engineering Supervision, Construction, Modification, Renovation, Fabrication, Supply, Erection, Testing & Commissioning

Emerging Enviro-Tech Solution & Services Pvt. Ltd.
1. SEWAGE TREATMENT PLANT

Sewage Treatment is the need of the day as it is the most simple & convenient way of treatment for recycling and reuse of precious water. The sewage must be treated and disposed of to avoid water and soil pollution matter. Due to large quantity of sewage produced, the age-old system of septic tanks and soak pits is not effective. The overflow from these facilities form lots of dirty water that invites mosquito breeding.

We provide complete solution along with Design, Drawing, Engineering Supervision, Construction Fabrication, Supply, Erection, Testing & Commissioning including Mechanical, Piping, Electrical & Instrumentation work of the STP plants on Turnkey basis.

- We also offer the Packaged Sewage Treatment Plants in capacities up to 150 KLD.
- Technologies offered for STP’s are FAB, MBBR, SBR, SAFF & MBR etc or as per client requirement.
- Design of Recycling and Reuse concepts by providing tertiary polishing treatment to treated sewage water for plant reuse applications of gardening/flushing/reuse in cooling tower makeup/floor washing etc.

APPLICATION AREAS:

- Used in community, real estate’s, industries, hospitals & township projects.
2. Effluent Treatment Plant

Keeping in view of the fresh water demand for drinking as well as for industries, the scarcity of fresh water is the most burning problem for today’s life.

We provide complete solution of works including Design, Drawing, Engineering, Fabrication, Renovation, Supply, Erection, Testing & Commissioning including Mechanical, Electrical, Piping and Instrumentation items of works of ETP’s / CETP’s on Turnkey Basis.

- Also doing Performance Evaluation Studies for present ETP/ CETP Set Ups.
- Water Balance and Water Audit/ Water Conservation Studies
- Design and Engineering for New ETP / CETP / WTP set Ups for industries/ estates/ townships.
- Feasibility Studies for New ETP/ WTP/ CETP Set ups and Modifications/ Renovation/ Expansion of existing ETP’s/ CETP’s.
- Technologies considered for designs for treatment processes are MBBR, SBR, MBR, SAFF, Extended Aeration, Anaerobic Reactors, Trickling filters etc or as per client requirement.
APPLICATION AREAS:

- Tanneries/ Leather industry
- Slaughter House
- Textile industry
- Paint industry
- Distillery industry
- Electroplating industry
- Dairy industry
- Sugar industry
- Paper & Pulp industry
- Oil refineries
- Glass industry
- Pharmaceutical industry
- Food Processing industry
- Cement industry
- Chlor Alkali industry
- Fertilizer industry
3. Common Effluent Treatment Plant

Keeping in view of very high cost for installation of STP & ETP separately for any industry, EESS Engineers offers Common Effluent Treatment Plant (CETP) as a single for treatment of both sewage & effluent. CETP reduces the project cost as well as the area required for plant establishment.

We offers complete solution of work including Design, Drawing, Engineering, Construction, Fabrication, Renovation, Supply, Erection, Testing & Commissioning including Mechanical, Electrical, Piping and Instrumentation items for CETP’s for different industries & hospitals on Turnkey basis.
4. Compact/ Containerized/ Packaged STP or ETP

We also offer the Packaged Sewage Treatment Plants/ Effluent Treatment Plants in capacities up to 150 KLD on very low cost and very low operation & maintenance cost along with Design, Drawing, Engineering Supervision, Construction Fabrication, Supply, Erection, Testing & Commissioning including Mechanical, Piping, Electrical & Instrumentation work of the STP plants for community, real estate’s, industries, hospitals & township projects on Turnkey basis.

- Technologies offered for STP’s are FAB, MBBR, SBR, SAFF & MBR etc or as per client interest.
- Design of Recycling and Reuse concepts by providing tertiary polishing treatment to treated sewage water for plant reuse applications of gardening/ flushing/ reuse in cooling tower makeup/ floor washing etc as per demand.
Fig.: Compact Effluent Treatment Plant

Fig.: Containerized Sewage Treatment Plant
5. Water & Grey-water Treatment Plant

Fresh water is a scarce natural resource. The contamination in the fresh water resources is very common problem of today’s life resulting chronic diseases from water has been spreads very fast.

We offer the water as well as grey-water treatment plant at very low cost which offers the complete solution for water purification on Turnkey basis including Design, Drawing, Engineering, Fabrication, Renovation, Supply, Erection, Testing & Commissioning including Mechanical, Electrical, Piping and Instrumentation items, Multi Grade Filter (MGF), Activated Carbon Filter, etc.

![Water Treatment Plant](image)

Fig.: Water Treatment Plant

6. Rain Water Harvesting System

Water is a scarce natural resource. Mindless extraction and over exploitation of very small quantity of ground water has caused a rapid depletion and deterioration in its quantity and quality both. So there is a need to:

- Overcome the inadequacy of waters to meet recent demands;
- Arrest decline in ground water levels;
- Enhance availability of ground water at specific place and time;
- Increase infiltration of rain water in the subsoil and thereby improve ground water quality by dilution etc.
We provide complete solution for Rain Water Harvesting System including surveys & investigations for permeability/percolation tests of soils, resistivity surveys and estimation of ground water potential etc., design of Harvesting System, recharge wells & storage tanks & estimation of potential Rain water Harvesting system.

![Rain Water Harvesting System](image)

**Fig.: Rain Water Harvesting System**

7. **Sewer Line Connection**

A storm drain/ water supply/ waste water/ sewage systems are designed to convey/ drainage-water/ wastewater/ storm water from paved streets, parking lots, sidewalks, roofs/ industries etc. All these are conveyance system designed either for gravity or pumping system.

**THIS INCLUDES:**

- Designing for Internal Plumbing Systems in buildings and townships.
- Designing of External Water Supply and Drainage, Storm Water Drainage systems for townships, estates.
- Designing for Storm Water drainage, Sewerage Systems in various industries.
- Designing of Waste water Pipeline gravity/ pumping for industrial Estates.
SERVICES COVERED:

- Site surveys for data collection & alignment of pipeline route.
- Designs with Folded Elevations for internal plumbing systems for water supply and drainage in buildings/plotting.
- Geotechnical Investigations.
- Pipeline are designed for gravity/pumping based on site conditions
- Selection of MOC of Pipeline
- ROU/ROW, Cadastral Surveys for Pipeline Route if necessary.
- Other necessary clearances for road/railway/bridge crossings
- Basic & Detail Designing of Entire Pipeline network along with Pumping Station.
- Supervision over execution of works.

Fig.: Sewerage Line - Connection
Fig.: Sewerage Line - Laying