

***Design, Drawing, Engineering Supervision, Supply, Construction,
Installation, Testing & Commissioning of STP, ETP, RWH,
Sewerage line & Other Civil/ Environmental Consultancy
Projects on TURN KEY BASIS***

CATALOG



EMERGING ENVIRO-TECH
Solution & Services Pvt. Ltd.

1. SEWAGE TREATMENT PLANT

Sewage Treatment is the need of the day as it is the simplest & convenient way of treatment with 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 forms lots of dirty water that invites mosquito breeding.

We “EESSPL” 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/compact STP/ ETP.
- Technologies offered for STP's are SBR, FAB, MBBR, Constructed Wetland etc. or any of other technology as per client requirement/ site conditions.
- 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.



Pics.: 250 KLD STP (MBBR Technology Based)



Pics.: 600 KLD STP (SBR Technology Based)

2. SEWAGE TREATMENT PLANT (CONSTRUCTED WETLAND BASED)

Keeping in view of the high operation & maintenance cost, we “EESSPL” provide Design, Drawing, Engineering Supervision, Construction, Supply, Erection, Testing & Commissioning including Mechanical, Electrical, Plumbing and Instrumentation items of work of STP based on constructed wetland technology on Turnkey Basis.

The O&M cost of this type STP is negligible with minimum & easy handling. It is completely natural plant based treatment system.



Pics.: 01 MLD & 600 KLD STP (based on Constructed Wetland Technology), Nagar Nigam

3. 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 "EESPL" provide complete solution of work including Design, Drawing, Engineering Supervision, Renovation, Supply, Erection, Testing & Commissioning including Mechanical, Electrical, Plumbing and Instrumentation items of work of ETP's/ CETP's on Turnkey Basis.

- Also doing Performance Evaluation Studies for present ETP/ CETP Set ups.
- Design and Engineering for New ETP/ CETP for various industries/ hospitals.
- Feasibility Studies for New ETP/ WTP/ CETP Set ups and Modifications/ Renovation/ Expansion of existing ETP's/ CETP's.
- Designs of Zero Liquid Discharge Systems.

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.



Pics.: 60 KLD ETP Based on UASBR Technology (Parag Dairy)



Pics.: Effluent Treatment Plants (IIT Indore Campus)



Effluent Treatment Plant- Hatchery Industry

4. COMMON EFFLUENT TREATMENT PLANT

Keeping in view of very high cost for installation of STP & ETP separately for any industry, EESSPL 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 “EESSPL” 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.

5. COMPACT/ CONTAINERIZED/ PACKAGED STP/ ETP

We “EESSPL” also offers the Packaged/ Compact Sewage Treatment Plants/ Effluent Treatment Plant on very low cost along with Design, Drawing, Engineering Supervision, Construction fabrication, supply, erection, testing & commissioning including mechanical, plumbing, electrical & instrumentation work of the STP/ ETP 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.



Pics.: Pre-fabricated Compact Sewage Treatment Plant

6. 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 “EESPL” offer the grey-water treatment plant at very low cost with complete solution for water purification on Turnkey basis including Design, Drawing, Engineering, Fabrication, Renovation, Supply, Erection, Testing & Commissioning including mechanical, electrical, plumbing and Instrumentation items, Multi Grade Filter (MGF), Activated Carbon Filter, etc.



Pics.: Water Treatment Plant

7. MULTI GRADE FILTER (MGF) & ACTIVATED CARBON FILTER (ACF)

a) MULTI GRADE FILTER:

Multi Grade Filter is used for removal of suspended solids & turbidity from water & wastewater. We, EESSPL offer series of filters at a low cost, reliable and highly efficient way to filter the water.

Salient Features of MGF –

- Simple design maximizes reliability and efficiency
- Multi layers of filtration media
- Standard and effective quartz sand media.
- Low Pressure drops across the vessel
- Manual, Semi-Automatic and Automatic features are provided
- Pre-assembled construction minimizes start-up time and installation costs
- Structural steel legs provide rigid support of vessel for safety
- Air scouring available for high flow pressure vessel.
- Internal distribution and collection system.

b) ACTIVATED CARBON FILTER (ACF):

Activated carbon is one of the most effective media for removing a wide range of contaminants from industrial and municipal waste waters, landfill leachate and contaminated groundwater. As the world's most powerful adsorbent, it can cope with a wide range of contaminants. Different contaminants may be present in the same discharge and carbon may be used to treat the total flow, or it may be better utilized to remove specific contaminants as part of a multistage approach.



Pics.: Multi Grade Filter & Activated Carbon Filter

8. RAIN WATER HARVESTING SYSTEM/ WATER CONSERVATION PROJECTS

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 “EESPL” provide complete solution for Water conservation as well as Rain Water Harvesting projects including survey & investigation for permeability/ percolation test of soil, resistivity survey and estimation of ground water potential etc., Design of Harvesting System, Recharge wells, storage tank & estimation of Recharge potential of Rain water Harvesting system.



Pics.: Rain Water Harvesting Projects



Pics.: Pond Rejuvenation with Constructed Wetland Technology based STP, Nagar Nigam, Lucknow

9. SEWERAGE LINE WORK

A storm drain/ water supply/ waste water/ sewage system is 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.
- Pipeline are designed for gravity/ pumping based on site conditions
- Selection of MOC of Pipeline
- ROU/ ROW, Cadastral Surveys for pipeline route if necessary
- Basic & detail designing of entire pipeline network along with pumping station
- Supervision over execution of work.



Pics.: Sewerage Line – Connection



Pics.: Sewerage Line – Design & Laying



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SOLUTION & SERVICES PVT. LTD.

(An ISO 9001:2015, 14001:2015 & 45001:2018 Certified Company)

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