



THREEPLUS SOLUTION
Company Limited



PROFILE

Threeplus Solution Company Limited was formed from a highly qualified team of engineers and technicians who had many years of experience in the industrial's field.

Threeplus Solution Company Limited had committed to serving our clients and fulfill their requirements with respect to Timely, Quality, Safety, and Abiding.

Threeplus Solution Company Limited Responsibility to its employees and share shareholders.

Threeplus Solution Company Limited has developed and implemented a quality assurance system conforming to the ISO standard. The following of this document shall provide a brief review of the organization, Service, and experiences of Threeplus Solution Company Limited which will enable Threeplus Solution Company Limited to be a leading position among other engineering and construction companies.

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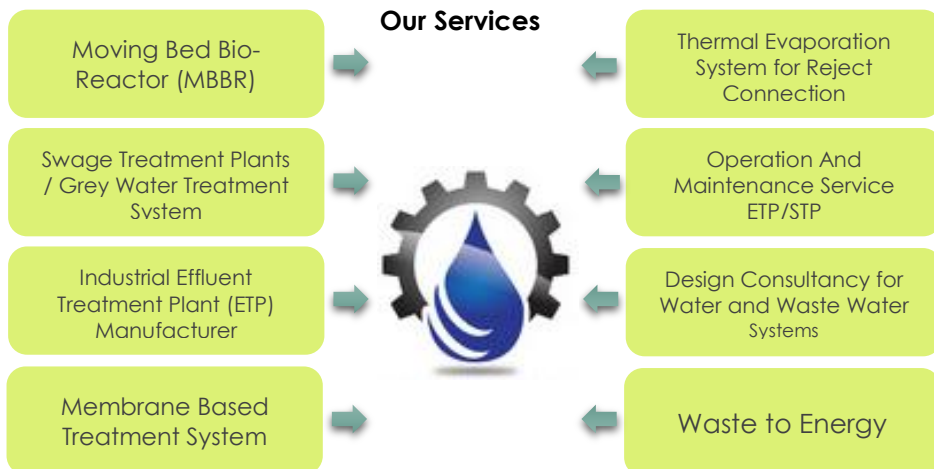
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THREEPLUS SOLUTION

Waste Water Treatment Plant Innovation (WWTP)

INNOVATION SOLUTION FOR WASTE WATER MANAGEMENT

Threeplus Solution is a professional wastewater management company providing sustainable wastewater management solutions for municipalities and public agencies.



MOVING BED BIO-REACTOR (MBBR)

- We provide biological treatment system based on the revolutionary Moving Bed Bio Reactor (MBBR) Technology with high surface area media and made of PE
- The system will reduce the foot print conventional treatment plants by more than 70%
- The system can also be used to increase the capacity of existing activate sludge process-based treatment plants by at least 150% without any additional construction





SWAGE TRATMENT PLANTS / GREY WATER TREATMENT SYSTEM

- Modular, Pre-fabricated/Skid mounted/Totally underground design for apartment and hotels
- Turnkey solutions offered for Hospitals, Apartment Complexes and Townships
- Modular units suitable for re-location, if and when required in future
- An odor – Free unit delivering crystal clear water
- Treated water from the system is suitable for re-use in irrigation, flushing toilets and floor cleaning
- Post-Chlorination and filtration make treated water 100% pathogen free
- Service contacts for operating and maintaining the unit



INDUSTRIAL EFFLUENT TREATMENT PLANS (ETP) MANUFACTURER

Threeplus Solution offer wide range of effluent treatment plants and recycling services suited to the need for your industry. Effluent Treatment is a passion more than a business for the Engineers at Threeplus Solution. Their familiarities with varied effluents over the years have helped them in developing innovative concepts and ideas. Among them are: Approach the effluent with a view to re-use the treated water than to discharge it by merely meeting the regulatory requirements. Over the years, we have been manufacturing comprehensive effluent water treatment plants and this is how became the professional manufacturer, supplier of effluent waste water treatment plants in Thailand.

- Look at effluent as a precious (misplaced) resource and not waste
- Produce commercially valuable products from the effluent

Any treatment design first explores the possibility of treating the effluent with a view to wholly or partially re-use the same in the original process or for an auxiliary application. The option of discharge comes into picture only when recycling/re-use is prohibitively expensive or not permitted.





MEMBRANE BASED TREATMENT SYSTEM

Portable water

- Drinking water from Seawater
- Textile and Dyeing
- Breweries and Distillers
- Treated Sewage Reuse
- Pharmaceuticals
- Metal Finishing
- Chemical



THERMAL EVAPORATION SYSTEM FOR REJECT CONCENTRATION

Design, build, supply, installation, erection and commissioning of multi stage evaporation unit is another in house strength of Threeplus Solution team. The systems installed by Threeplus Solution for the evaporation of RO reject has been one of the few successful systems working in the specific field. The cost-effective Caustic Recovery System for textile industries is a product which pays back its cost in less than 2 years and is an important tool in recovery and reuse of valuable waste from the textile process industry.





OPERATION AND MAINTENANE SERVICE ETP/STP

Threeplus Solution has a separate Service Division and offers all types of maintenance and operation services to clients as per their requirement. We offer services, from periodical maintenance to complete man-and-operate for STPs and ETPs.

Any tool is as good as its user. Though treatment systems and built with a high level of automation human intervention as and when needed is absolutely essential for the smooth operation of the systems. If a system is not maintained regularly then it is bound to fail. For clients without an in-house maintenance team, we provide these services from periodic visits to totally man and operate the plant on a day-to-day basis. Threeplus Solution has a separate Service Division to cater to these services.



DESIGN CONSULTANCY FOR WATER AND WASTE WATER SYSTEMS

Threeplus Solution has a team of engineers and consultant with many years of experience in the field of water and waste water treatment. At Threeplus Solution we believe that we are in business of "survival". Yes; Water is one element to sustain life. Providing services for cleaning water and conserving. We believe in sharing this knowledge of life to the needy at affordable prices.





OTHER SERVICES

- Water Filtration Systems
- Automobile/Heavy Equipment wash water Recycling plants
- Swimming Pool water Recycling



WASTE TO ENERGY

The concept of treating wastewater streams to avoid harmful impact to the environment has progressed to exploring reuse and energy generation from this waste streams. This focus had led to many studies to use anaerobic treatment processes, which has much lesser energy requirement and the end product also is an energy source. Yes, anaerobic biological process is one, in which microorganisms break down biodegradable material in the absence of oxygen to generate methane. The resultant gas, a combination of Methane and Carbon dioxide is commonly known as Bio gas, which is combustible and can be used to generate electricity and heat, or can be processed into renewable natural gas and transportation fuels.

Anaerobic digestion in wastewater treatment

Anaerobic digestion already occurs in nature, whenever organic wastes are left under anaerobic conditions. But the process can be optimizing the wastewater/sludge parameters, ideal reactors can be designed – be it traditional anaerobic digesters, sludge digesters, Continuously Stirred Tank Reactors (CSTR), or Up-flow Anaerobic Sludge Blanket reactors (UASB). These reactors are designed to provide ideal conditions for anaerobic bacteria to thrive and maximize biogas production. Biogas contains roughly 50-70 percent methane, 30-40 percent carbon dioxide, and trace amounts of other gases. The liquid and solid digested material, called digestate, is frequently used for soil amendment.

Anaerobic digestion to treat wastewater, septage, or sludge from wastewater treatment plants has gained worldwide attention because it offers significant environment and economic benefits. In addition to treating wastewater in order to protect our water bodies, this energy recovery help to build economic resilience in the face of an uncertain future for energy production and wastewater disposal.

In addition to energy recovery, anaerobic reactors can lower costs associated with waste water treatment. With little to no processing, biogas can be burned on-site to Heat and Power (CHP) operations, or biogas can simply be turned into electricity using a combustion engine, fuel cell, or gas turbine, with the resulting electricity being used on-site or sold onto the electric grid.



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The left-over material after digestion is a nutrient-rich solid (after dewatering) or liquid material – it contains all the recycled nutrients that were present in the original organic materials but in a form more readily available for plants and soil enhancement.

