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**TOTAL WATER & ENVIRONMENT SOLUTIONS**



**CleanWater**

## Our Association



## Total Environment Management Solutions:

CleanWater a water engineering & chemical trading based environmental consultancy house in Bangladesh.

## Presently, we have following sister Concern Company:

- ➡ CleanWater Engineering Services; a water engineering based company, by which Effluent Treatment Plant (ETP) design, fabrication, installation & commissioning works are done. Right now, we have installed few ETP as well as few are installation mood.
- ➡ CleanWater Corporation; A Chemical Trading House based on waste water treatment chemicals; Right now we have good number of customer.
- ➡ AquaTech & Services: An engineering based company, by which drinking water treatment plant design, fabrication, installation & commissioning works are done.
- ➡ ETP Operational Training School (EOTS); a technical based training institute, where we operate training program for ETP plant operation as well as overall water management training program.

We are committed and assure you our best service for complete water, waste water treatment, waste to energy and solid management solutions.

## Foreign Partner

### CleanWater collaborated with foreign partners for different activities, such as follows:

- ➡ UEM Inc (Toshiba Group, Japan) Partner for MBR+ Biological ETP & ZLD
- ➡ Greentach Corporation USA Partner for ECR ETP & ZLD
- ➡ KLARO, German/Oryana Ventures Pvt Limited, India/Unitech Water Technology India Partner for Sewage Treatment Plant (STP)
- ➡ SLPP, India Partner for Bio Gas Plant
- ➡ Li Feng, China Partner for Sludge Dewatering Screw Press;
- ➡ Yixing Holly Technology Co. Ltd, China Partnerfor Screw Press & ETP Tube Settler
- ➡ Greatech Machinery Industrial Co. Ltd, Taiwan Partner for Air Blower & Diffusers;

## Water and Waste Water Treatment

End to End solutions offered in,

- ➡ Effluent Treatment Plant (ETP)
- ➡ Sewage Treatment Plant (STP)
- ➡ Water Treatment Plant (WTP)
- ➡ Grey Water Treatment (GWT)
- ➡ Rain Water Harvesting
- ➡ Salt Recovery Solutions
- ➡ Zero Liquid Discharge Plant (ZLD)
- ➡ Reverse Osmosis Plant (RO)
- ➡ Mechanical Evaporator
- ➡ ETP Chemicals & Operation and Maintenance

## Waste to Energy Management

- ➡ Bio Gas Plant; Converts Food & Cow dung Waste to Bio Gas;

## Effluent Treatment Plant (ETP)



- ➡ For Printing Industries with Recycle
  - Physico-Chemical Treatment Technology with Recycle
  - ECR Treatment Technology with Recycle
- ➡ For Sweater Industries with Recycle
  - Physico-Chemical Treatment Technology with Recycle (Max)
  - ECR Treatment Technology with Recycle
- ➡ For Paper industries
  - Physico-Chemical Treatment Technology with Recycle (Max)
  - ECR Treatment Technology with Recycle
- ➡ For Denim Washing-/ Dyeing/ Pharmaceutical/ leather/Food Projects
  - Bio-Chemical Treatment Technology
  - Biological (ASP) Treatment Technology
  - Biological With MBR Treatment Technology
  - ECR with Biological Treatment Technology

CleanWater offer equipments, systems and turnkey projects for effluent treatment. We cater to industrial waste water coming from various industrial sectors such as Textiles, Dyes and Intermediates, Pharmaceuticals, Food and Beverage, Tanneries, Sweater, Paper, Printing etc. CleanWater find out suitable treatment technology for clients whether would be more cost effective treatment technology for customers. CleanWater offers also both utilities & process discharge solution vide Primary, Secondary and Tertiary treatment using Clarifier Media, Agitators Gear Motor, Air Blower, Air Diffusers, Screw Press etc on Turnkey basis as per clients requirement;

## Zero Liquid Discharge for Recycle of ETP Treated Water



Overall 95% of water recovers from RO stage I,II,III & IV, the RO system will have fully automated like service, ORP control, pH control, low pressure.



## Filtration Systems

### Pressure Sand Filter



CleanWater's wide range of filtration plants consists of a vessel filled with a bed of filtering media supported on a bed of pebbles, gravels or silex. The vessel is provided with frontal piping and valves to control the operation of the unit. The feed water is fed at the top of the filter and as it passes through the filter media, the impurities are trapped to filtered water.

CleanWater manufactures a wide range of standardized & custom built Pressure Filters, Multi Grade Filter, Dual Media Filter or Activated Carbon Filter by using sand, activated carbon and anthracite as a filtering media.

### Activated Carbon Filter

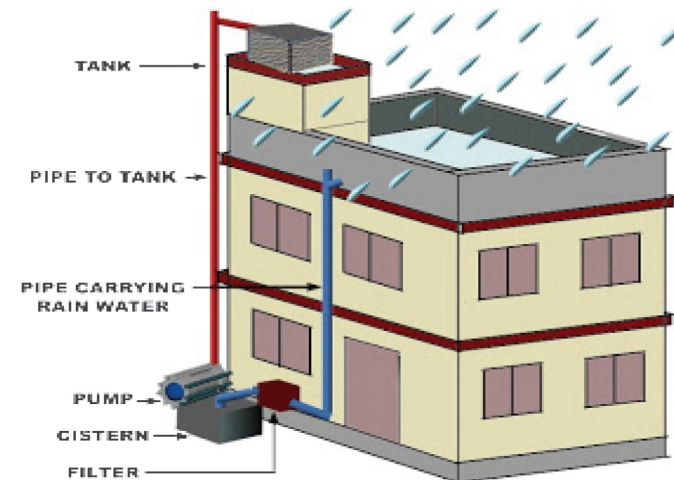


## Softening System



## Rain & Grey Water Harvesting

Conservation of Water Resource through rain water harvesting



*Water Treatment*



## Waste Water Treatment Chemicals & ETP Accessories

CleanWater offer for Chemicals for operation of Effluent Treatment Plant, Boiler, Cooling Tower, WTP such as

### a) ETP Chemicals:

- i) Ferrous Sulphate Heptahydrate ( $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ )
- ii) Lime Powder ( $\text{CaO}$ )
- iii) Alum ( $\text{K}_2\text{SO}_4 \cdot \text{Al}_2\text{SO}_4 \cdot 18 \text{H}_2\text{O}$ )
- iv) Poly Aluminium Chloride (PAC)
- v) Water Decoloring Agent
- vi) Anionic Polymer
- vii) Antifoaming Agent

### b) Cooling Tower Water Management Chemicals:

- i) Scale & Corrosion Inhibitors
- ii) Oxidizing Biocide
- iii) Non Oxidizing Biocide

### c) Boiler Water Management Chemicals:

- i) Scale & Corrosion Inhibitors

### d) WTP Chemicals:

- i) Cationic Resin
- ii) Common Salt



ETP Chemicals:

## ETP Accessories

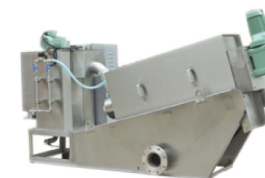
➡ Roots Type ETP Air Blower



➡ Diffuser (Fine & Coarse Bubble Type) - Disk & Tube Type

➡ Chemical Dosing Pump

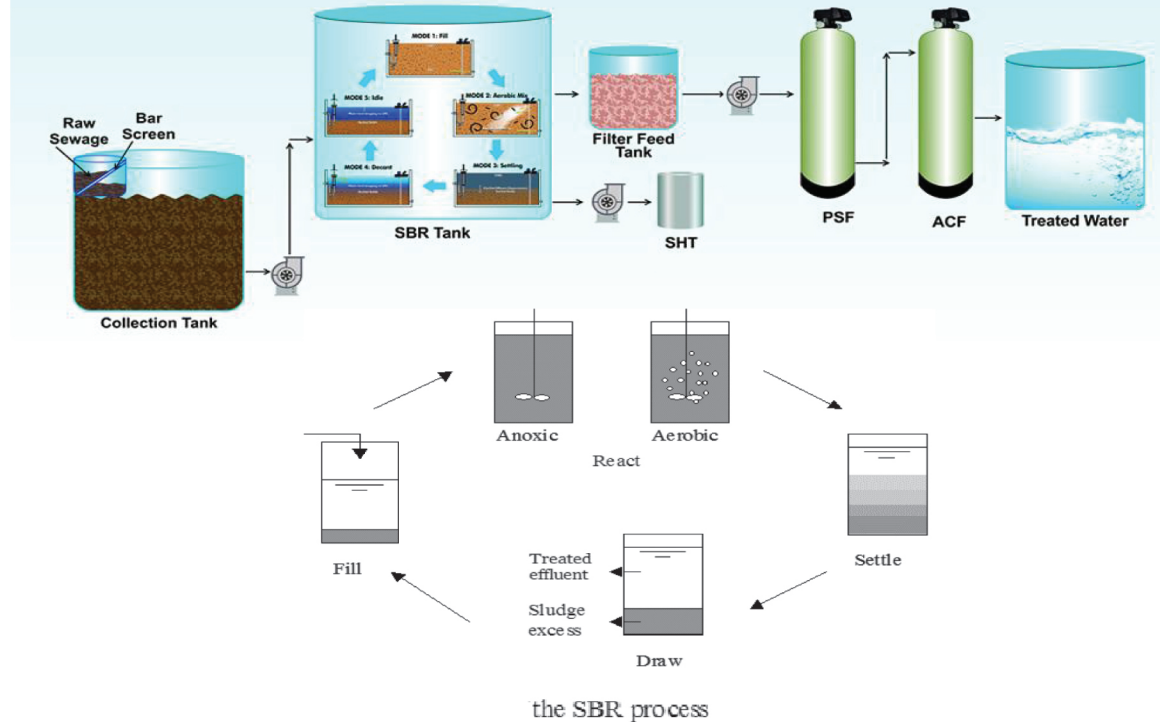
➡ Sludge Dewatering Screw Press



➡ Tube Settler etc;

## Domestic Waste Water Treatment (STP)

**SBR Process Diagram**



the SBR process

CleanWater offer innovative waste water treatment plant by collaborating with foreign partner.

Our Brand Greywater™ we propagate "Point-of-Generation", "Point-of-Discharge" & Decentralized treatment. Our product solutions not only improve required treatment parameters in line with Pollution Control Board; but also conserve land, fuel and energy.

Our GREWA range of products clean, treat and recycle wastewater to a very high quality, such that it can directly be re-circulated in closed systems instead of simply discharging it in sewers or use only for Gardening and Horticulture. Our re-cycling strategy is based on a "No-Waste" concept. All our product solutions are optimized to satisfy and meet environmental protection standards. Our entire "Grewa-R/RS/M" range is Automatic, Semi - automatic, packaged and containerized.

### Wastewater / Sewage Treatment / Effluent Treatment:

- |                                |  |                             |
|--------------------------------|--|-----------------------------|
| a) Grewa-R/R-S (Containerized) | : Biological Treatment                           | : 10 m3/day to 150 m3/day   |
| Grewa-R/R-S (Civil)            | : Biological Treatment                           | : 150 m3/day to 1000 m3/day |
| b) Grewa-M (Containerized)     | : MBR (Membrane based)                           | : 04 m3/day to 150m3/day    |
| Grewa-M (Civil)                | : MBR (Membrane based)                           | : 150 m3/day to 1000m3/day  |
| c) Grewa-Fleet                 | : Combination Effluent treatment for industries. |                             |

*Sewage Treatment Plant (STP)*



## BioGas



CleanWater offer innovative waste to energy converting plant by collaborating with foreign partner, which is an exclusive leading player in [Turnkey projects in Biogas, Biogas to power and compressed biogas](#) that empowers people around the world by providing alternative sources of energy.

We are committed to find innovative green solutions to replace nonrenewable fossil fuels in a manner which values people and respects the earth.

Biogas input would be organic food waste and cowdung; Manufacturer innovative model is as follows:

### Model of Biogas

Details	Model - 500	Model - 750	Model - 1000
Processed Organic Waste (Kg)	500	750	1000
Number of Operating Days (d)	360	360	360
Total Waste Per Annum (Kg)	1,80,000	2,70,000	3,60,000
CO2 Prevented (Kg)	15,1812	2,27,718	3,03,624
Biogas Produce (m3)**	60 -65	90 – 95	120 – 130

\*\* Biogas Generation potential based on manufacturer laboratory testing pilot experiment and may vary based on actual organic waste content;

### Annual Service Contract for ETP/WTP/STP/Biogas/Drinking Plant

CleanWater offer annual service contract for operation & servicing of ETP, WTP, Biogas, STP & Drinking Plant, which is very much innovative & amicable concept for operation of mentioned plant.

*Waste to Energy & ASC for ETP*

## Valuable Client Lists



## Performances

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