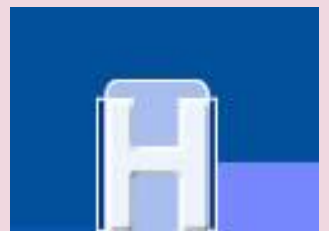


Aqua Designs India Limited

SEWAGE TREATMENT PLANT,
EFFLUENT TREATMENT PLANT &
RAW WATER RO PLANT

Case Study

Regency, Chennai



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TECHNOLOGY

Sewage Treatment Plant

It consists of conventional Aeration System with Secondary settling tank followed by filtration

Raw water RO plant

It consists of an Aeration system to precipitate any iron particulates present followed by two stage filtration and then to the Reverse Osmosis system and finally to the degasser where it strips of the dissolved gases present. The final treated water is used for Boiler and canteen purpose.

Effluent Treatment Plant

This consists of chemical dosing systems followed by conventional secondary treatment systems. This pre secondary treated water then passes to the Ultra filtration and then to the Reverse osmosis.

BACKGROUND

Regency textiles are basically a textile based industry situated on the outskirts of Chennai. The industry washes the new cloth material and stitching is being done for major brands like Tom Taylor, Levis, and Tommy Hilfiger. The industry houses state of the art machineries and their mission is quality and eco friendly operations.

The industry is situated in a semi critical area as per the classification of the Public works department as hence recycle and reuse of water is necessary. Also the extent of land needed for discharge is high and hence cost of recycling should be more meaningful than inland drain. This industry's main concern is Iron content and very high dissolved solids present in water which is not suitable for washing.

Regency was very much impressed on the design given by Aqua Designs among the various competitors and thus Aqua Designs was awarded the order of a textile industry.

The total water management system was awarded to Aqua Designs and the following are the systems

- Sewage Treatment Plant*
- Raw Water Reverse Osmosis Plant*
- Effluent Treatment plant*
- UFRO based Recycling plant*
- Evaporator for RO rejects*



APPLICATION

Sewage Treatment Plant

To treat sewage as per statutory norms and use the treated water for gardening

Raw water RO plant

To treat sewage as per statutory norms and use the treated water for drinking and boiler feed

Effluent Treatment Plant

To treat sewage as per statutory norms and use the treated water for washing

ADVANTAGES

Total water management. Reuse of recycled water.

CONCLUSION

The plant was successfully commissioned up to the Client satisfaction and it is being maintained by us.