

Innovation In Sustainable Solution



 **Chemtronics**[®]

Chemtronics is committed towards Innovative Solutions in the field of AIR | Water | Waste Water

Indoor Air Quality [IAQ] – Commercial | Institutional | Residential

Poor Indoor Air Quality [IAQ], lack of freshness & energy are the root cause of modern-day illnesses. This significantly determines the well-being, health, mood & performance of your loved ones, staff & clients.

**Chemtronics not only treats Indoor Air but also
enhances energy & freshness.**



Schools | Office | Hotels | Resorts | Hospitals | Malls | Theaters | Restaurants



Indoor Air Quality [IAQ] – Manufacturing Industries

For disinfection & sterilization, manufacturing industries have struggled for quality, reliability & consistency. One critical factor often neglected is “Indoor Air Quality [IAQ].”

**Chemtronics innovative comprehensive IAQ
Plan reduces - Spoilage | Rejection | Recall**

Pharma & API | Bakery | Dairy | Food & Beverage | Meat | Aquaculture | Poultry |
Slaughter House | Cosmetic | Space Research | Semiconductor | Cold Storage | Wine

Clean Exhaust Air – Commercial | Institutional | Residential

Foul odour, microbes, toxic gases, and micropollutants going out through exhaust is a nightmare for the plant head and chief engineer to control.

**Chemtronics gives you complete peace of mind from
Oil & Grease, foul odour, microbes & pollutant Gases.**



STP | OWC | Commercial Kitchen | Garbage Rooms | Washroom | Waste Segregation Room |
Sewage Lift Stations | Slaughter House | Fish Market | Butchery | Fish Feed Industries | Morgue |
Dumping Yards | Chemical Exhaust | Fire Burning | Rubber

The core of our innovations is to make our clients a preferred choice by their customers.

Water

Practically every industry suffers from limited spectrum coverage of disinfectants on pollutants. And a high dose of disinfectant adds to dangerous DBPs.

Chemtronics ECO technology treats water pollutants safely & comprehensively with negligible DBPs.

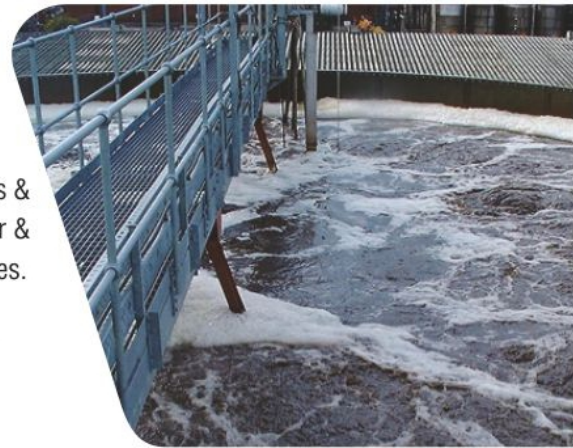
Raw Water | Purified Water System | WFI | Cooling Tower | Package Drinking Water | Pharma Potable Water | Laundry | Aquaculture | RAS | Swimming Pool

Reclaim Waste Water

Day by day, stringent wastewater disposable norms demand high treatment costs & space or reduction in production capacity. The presence of high COD, BOD, color & odor in industrial wastewater are challenging to treat with conventional technologies.

Chemtronics ECO with AOP technology can oxidize harsh & complex chemical bonds & makes them simplified & it can be subsequently treated by Physio-chemical or Biological process, which reduces chemical & energy.

Pharmaceutical | Textile | Chemical | Dyes | Food & Beverage | Distillery | Tannery

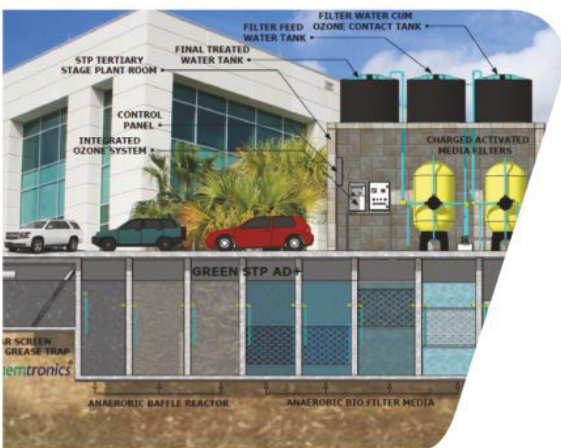


GREEN STP AD+

Sewage treatment plants take a lot of real estate space & teams to operate. Sludge handling is a significant issue to handle.

Chemtronics GREEN STP AD+ goes 80% below ground, sludge handling once in 2 years, 50% saving in electricity & 30 minutes of operation.

Residential | Factories | Corporates | Hotels & Resorts | Universities | Religious Places



CIP | COP



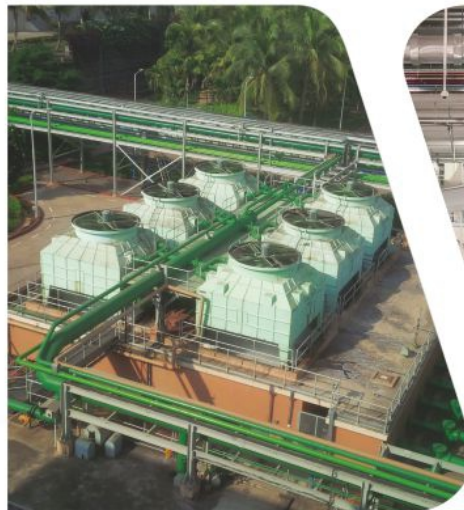
- Reliability
- Online Monitoring
- Savings in
 - ▶ Time
 - ▶ Energy
 - ▶ Water
 - ▶ Money
 - ▶ Waste Water

Commercial Kitchen



- Fire Safety
- Control
 - ▶ Oil & Grease
 - ▶ Odor
 - ▶ Pollutants
 - ▶ Toxic Gases

Cooling Tower



- Savings
 - ▶ Energy
 - ▶ Make up Water
 - ▶ Heat Transfer Efficiency
 - ▶ Money
- Reduces
 - ▶ Microbial Growth
 - ▶ Scaling
 - ▶ Corrosion
 - ▶ Blow down
 - ▶ Chemical Consumption

Commercial Laundry



- Savings
 - ▶ Water
 - ▶ Chemicals
 - ▶ Waste Water
- Maintains
 - ▶ Fabric Quality
 - ▶ Fabric Color
 - ▶ Fabric Life

Swimming Pool



- Safe
- No effect on human skin
- Maintains hygiene
- No Odor
- Crystal Clear Water
- Chemical Storage not Required

Package Drinking



- Online Monitoring
- Chemical Storage not Required
- Higher Efficiency
- No harmful DBPs

Pharma | API



Portable Water | High Purity Water | WFI | CIP | COP |
Laundry | ETP | Green STP

IAQ – Change Room, Wash room, Production,
Packing, Storage

Food | Beverage



Raw Water | Product Water | Surface Cleaning | CIP |
COP | ETP | Green STP

IAQ – Change Room, Wash room, Production, Packing,
Storage, transport & Retail

Hospitality



IAQ – Guest Room | Conference | Banquet | Restaurant | Pub & Bar |
Smoking Lounge | Gym | Butchery
Exhaust - Kitchen | STP | OWC

Swimming Pool | Cooling Tower | Laundry | Green STP | ETP

Real Estate



Green STP | Raw Water | Portable Drinking Water |
Grey Waste Water | STP & OWC Exhaust |
Swimming Pool | STP-TT

Aqua-Culture



Hatchery - Row Water / COP / IAQ / Packing
RAS - Raw Water / Recirculating Water

Textile & Chemical



ETP – Colour, Odour, COD, BOD, ZLD,
Denim Vintage Look | Fabric De-sizing



**German Metal Surface Treatment
Chemicals, KSA – DM
water Disinfection**

A German company having a manufacturing facility in KSA wanted to eliminate microorganisms & residual disinfectants without chemicals from their DM water. They installed Chemtronics automatic ECO system to thoroughly disinfect DM water in the storage tank & distribution network. With installation, they got 100% results in eliminating salmonella & pseudomonas from their treated water.

**LUX Resort,
Maldives – STP
Tertiary Water Treatment**

LUX is one of the premium five-star resorts in the Maldives. Bluish-green mesmerizing water due to corals beneath the ocean is the main attraction. Excess growth of seagrass due to disposal of treated sewage water in the sea made water dark green. Chemtronics ECO technology made 100 % water reusable for landscape, zero liquid discharge to sea & saving on precious seawater desalination.



**Spinners & Spinners, Kenya –
Zero Discharge Textile
Waste Water**

Kenya's textile industry spent \$1,900 per month on chemicals for treating their colour wastewater for reusing. Installing the ECO & Advanced Oxidation Process, their chemical consumption was reduced by \$1000 per month. As a bonus, their treated wastewater is much lower in TDS, Colour & COD.

**Cream bell, Uganda –
CIP | COP**

The harsh disinfectant chemical residue was a significant concern of the plant head. Installing the ECOBOI generator solved the chemical residues and increased sanitation with online monitoring. This reduced 20% energy, 25% savings in water and 20% reduction in CIP time.



**CIPLA, Goa – Potable Water
Purification System**

A renowned pharmaceutical company in India was facing serious issues of pathogens in their potable water system, which is a feed water to Purified Water (PW) system. Initially, Chemtronics ECO-based water disinfection gave them complete elimination of pathogens with no harmful disinfectants. Also, in the process, their TOC got reduced.

**HONDA Cars, India –
Change Room Odour
Elimination**

State of the art factory of Honda cars had 7,000 lockers for staff to change their civilian dress & wear the company uniform. To eliminate the strong foul odour of sweat from clothes & shoes, they installed Chemtronics advanced ECO system in their change room. This eliminated the foul odour and provided clean, sanitised manpower for the production area. This eliminated the foul odour as well as provided clean & sanitised manpower for the production area.



Mission

Lower CAPEX & OPEX
with Quick ROI

To implement our solutions with an experienced business associate.
And to train human resources to implement solutions for
the betterment of our Client's Customers.



ITC, India – OWC Odour Control

One of the Indian premium commercial property owners was facing difficulty renting out their spaces due to a strong foul exhaust air smell from their OWC & STP in the basement; installing Chemtronics ECO-based Solution completely eliminated foul odour from the exhaust air duct.

Voltas, India – Cooling Tower Water Treatment



Voltas, one of the leading HVAC companies, introduced Chemtronics ECO-based cooling tower water treatment. ECOBOI oxidation reduced the consumption of a couple of cooling tower chemicals like biocides & algacide. Due to a reduction in chemicals, they could achieve higher COC & also reduced corrosion. This also reduced blow down & make up water quantity with reduced load in ETP.



Oberoi Mall, India – Commercial Kitchen Exhaust

As per PCB compliance, it is mandatory to treat commercial kitchen exhaust air before releasing it into the atmosphere. Chemtronics has introduced innovative ECO & BOI to the Oberoi's food court kitchen to treat exhaust air within the duct, eliminating the use of dry scrubbers. This is exceptionally effective in oxidising oil & Grease, making ducts safe from fire hazards.

Club Mahindra, India – Swimming Pool



A chain of 5-star resorts & hotels had pressure from international customers to have a chlorine-free pool. Chemtronics ECO based pool disinfection gave freedom from harsh chlorine derivatives. Now guest enjoys more time in chlorine-free water without teeth bittering, eye reddening, itchy skin, hair fall & above all, children gulping dangerous disinfectant by-products.



Blue Star, India – IAQ, Indoor Stadium

Indoor Sports stadium undergoes two scenarios one very high density of visitors & days having no audience. Under both conditions, Indoor Air Quality gets severely disturbed. One of the leading HVAC companies, Bluestar, introduced Chemtronics ECO & BOI based air treatment to enhance IAQ. With this foul & dull odour got eliminated & indoor air became fresh. This also reduced the load on HVAC.

Anmol Bakery, India – IAQ, Manufacturing Industry



The leading brand of bakeries wished to improve their product shelf life & the quality. They installed Chemtronics ECO & BOI based indoor air treatment system to control the mould & fungal growth in the factory. Post-installation, within a couple of weeks, their IAQ got enhanced & as a result, their spoilage, rejection & Recall got reduced.

Enhance – Product | Process | Service
Reduce – Spoilage | Rejection | Recall

