OZONE INDIA TECHNOLOGY

(HEALTHY INDIA OZONE INDIA)

OZ INDIA ™ is manufacturing an Independent and worldwide active company for Research, Development, Production and Sale of High graded Ozone Generators and Ozone Systems for virtually each of ozonator applications, STP,ETP & WTP etc

ozone is a green technology

STP COD, BOD & TSS COLOUR CONTROL

COD (Chemical Oxygen Demand)

BOD (Biological Oxygen Demand)

Colour

TOC (Total Organic Carbon)

Odour

All microorganisms

Removal of suspended solids

Removal of turbidity

Ozone in paper industry effluent treatment

Ozone in dyeing industry effluent treatment

Ozone in removal of colour

Ozone in treatment of toxic waste

Ozone in treatment of cyanide waste

Ozone in elimination of heavy metals from wastewater

Ozone in elimination of phenols

Ozone in deodorization and treatment of gaseous effluent

What is Ozone?

Ozone is strong oxidizer and create ozone by oxygen at site by corona discharge method.

$$3O2 \rightleftharpoons 2O3$$

Ozone in the food industry has been investigated with regard to food preservation, shelf-life extension equipment sterilization and improvement of food plant effluent.

The objective of water treatment is to produce an adequate and continuous supply of water that is chemically, bacteriologically and aesthetically pleasing. More specifically, water treatment must produce water that is:

• Palatable (i.e. no unpleasant taste);

• Safe (i.e. does not contain pathogens or chemicals harmful to the consumer);

• Clear (i.e. free from suspended solids and turbidity);

• Colorless and odorless (i.e. aesthetic to drink);

• Reasonably soft (i.e. allows consumers to wash clothes, dishes, themselves, without use of excessive quantities of detergents or soap);

• Non-corrosive (i.e. to protect pipe work and prevent leaching of metals from tanks or pipes); UNESCO – EOLSS SAMPLE CHAPTERS OZONE SCIENCE AND TECHNOLOGY - Ozone Reactions with Inorganic and Organic Compounds in Water - Elina Portjanskaja ©Encyclopedia of Life Support Systems (EOLSS)

• Low organic content (i.e. high organic content results in unwanted biological growth in pipes and storage tanks that often affects quality).

• Ozone application has increased enormously both in number and diversity since the first full scale application of ozone for the disinfection of drinking water in Nice. Generally, the main areas where ozone is used are:

• Oxidation of inorganic compounds,

• Oxidation of organic compounds, including taste, odor, color removal and

• Disinfection.

Oxidation of Inorganic Compounds

*Oxidation of Inorganic Compounds

* Removal Iron and Manganese

*Oxidation of Ammonia

Advantages

*Ozone is more effective than chlorine in destroying viruses and bacteria.

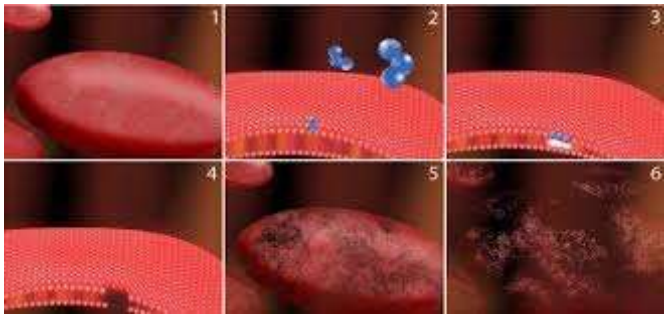
*The ozonation process utilizes a short contact time (approximately 10 to 30 minutes).

*There are no harmful residuals that need to be removed after ozonation because ozone decomposes rapidly.

* After ozonation, there is no regrowth of microorganisms, except for those protected by the particulates in the wastewater stream.

*Ozone is generated onsite, and thus, there are fewer safety problems associated with shipping and handling.

* Ozonation elevates the dissolved oxygen (DO) concentration of the effluent. The increase in DO can eliminate the need for reaeration and also raise the level of DO in the receiving stream.

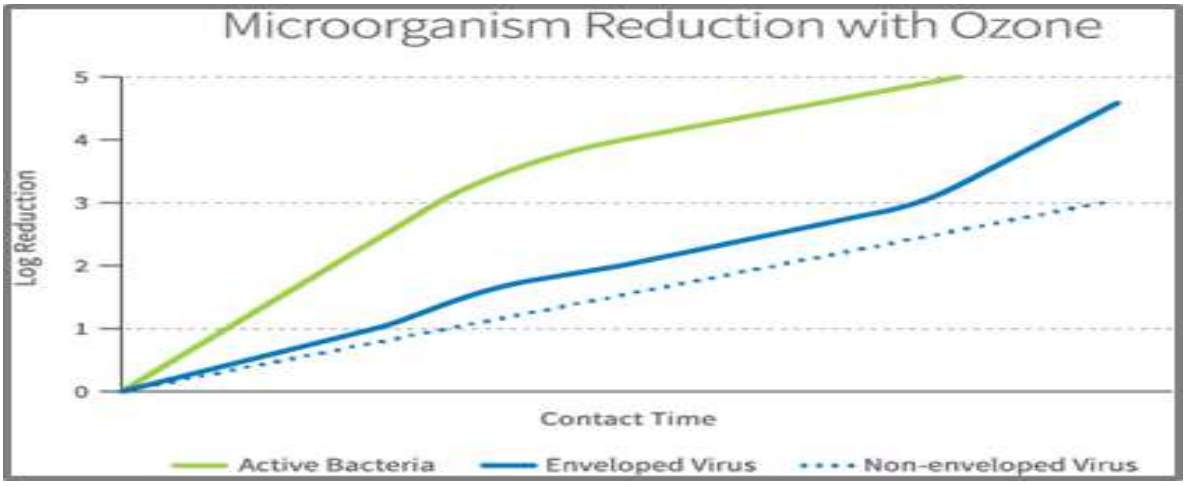


APPLICABILITY

Ozone disinfection is the least used method in the U.S. although this technology has been widely accepted in Europe for decades. Ozone treatment has the ability to achieve higher levels of disinfection than either chlorine or UV, however, the capital costs as well as maintenance expenditures are not competitive with available alternatives.

How do you stop STP from smelling?

The integration of Air OZonation System and injection of Ozone into Air Handling System is the latest and most popular technology to reduce H2S and NH3 from enclosed STP Exhaust. Role of Ozone: Ozone is a powerful oxidant which rapidly oxidizes odorous gases such as Hydrogen sulphide and ammonia.



Benefits for Air Treatment and Odor Control with ozone

*Ozone works fast

*No harmful by-products (ozone is a green technology)

*Ozone is safe

*Automated operation

*Improved air quality and work environment

*Eliminates odor complaints

OPERATION AND MAINTENANCE

Ozone generation uses a significant amount of electrical power. Thus, constant attention must be given to the system to ensure that power is optimized for controlled disinfection performance. There must be no leaking connections in or surrounding the ozone generator

It is important that the ozone generator, distribution, contacting, off-gas, and ozone destructor inlet piping be purged before opening the various systems or subsystems. When entering the ozone contactor, personnel must recognize the potential for oxygen deficiencies or trapped ozone gas in spite of best efforts to purge the system.

SUCCESS INSTALLATION

OZONE INDIA TECHNOLOGY installed successfully removed the STP ODUR in multistory building STP plant odor in JLL ,New Delhi 2018

OUR VALUABLE COUSTOMER-

SUKRITI Sustainable creations for you

NPCIL ATOMS IN THE SERVICE OF THE NATION

SHRIPAD GROUP OF COMPANIES

PCE Paleo Crystal Enviro TECHNOLOGIES PVT.LTD ISO 9001:2015

oXybee

OPTIMUS ENVIROPRO

HITECH ENVIRO
ENGINEERS & CONSULTANTS PVT. LTD.
360° Pollution Management

GROWEL
Grauer & Weil (India) Ltd.

NUVOCO
Shaping a new world

SPECTRA
International Ltd.

ecosoft
water professionals

MUMBAI AIRPORT, MUMBAI

BENGALURU INTERNATIONAL, BENGALURU

BHUBANESWAR AIRPORT

EROS SAMPOORNAM NOIDA EXTENSION

EIH DLF CYBER CITY, GURGOAN

MAHGUN MYWOOD,NOIDA EXTENSION

NIRALA ESTATE,GREATER NOIDA EXTENSION

CAIRN OIL AND GASVEDANTA LTD,SURAT

JK Cement LTD.

Enhance Ecotech Solution Pvt. Ltd.

envision™
From Thought To Completion

Eldeco Group India ,Noida

Cloud 9 Tower Vaishal

DELHI HIGH COURT,NEW DELHI

Gaur Atulyam,Noida extension

HYDROTECH PARYAVARAN (INDIA) PVT. LTD.

SOBHANA CHEMICAL

GoodOne
Process Engineers LLP

Greensol Tech™
Creating Value Out of Waste...

OZONE INDIA TECHNOLOGY

www.ozoneindiatechnology.com,ozoneindiatechnology@gmail.com

Mo-+91-9650017943, 9599500580/90