



CORTINA TREASURE CORPORATION PTE LTD

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OXIDATION DITCH

THE BEST BIOLOGICAL TREATMENT SYSTEM

Oxidation Ditch is considered the simplest to operate and the process produces excellent results. To date, there are thousands of Oxidation Ditch systems that have been proven, with capacities ranging from 50m³/day to 2,000,000m³/day (equivalent 250 to 10,000,000 P.E.).

Oxidation Ditch Performances

- 95 - 99% BOD removal efficiency
- Over 90% Nitrification efficiency
- Over 90% Nitrogen removal by denitrification
- Over 50% elimination of Phosphorous compounds
- Over 95% Phosphorous removal efficiency (If FE - salts are added)
- Low sludge production and stable sludge

Oxidation Ditch Biological Treatment Process is the most suitable for wastewater treatment if requirements include:

- Strict BOD & Ammonia removal
- Withstand substantial hydraulic and biological shock load
- Maximum Operational simplicity and minimum operator control
- Minimize sludge processing and treatment
- Complying with strict odour control regulations
- Minimization of Construction Cost



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OXIDATION DITCH MECHANICAL SURFACE AERATORS

Oxidation Ditch is a highly efficient aeration system using very low speed surface aerators. Aerators are mounted at turns in the racetrack configuration to provide complete mixing in the aeration zones. Plug flow exists in the channels between the aerators. Flow velocity of 0.3m/sec is maintained in the channels due to the pumping action of the aerators. Surface aerators applied in conventional systems are generally designed to have a power intensity of 0.7 to 1.2 Hp per 1000 cu.ft. Where as **Oxidation Ditch** system typically are designed for 0.4 Hp per 1000 cu.ft. This results in significantly more efficient aeration than conventional aerarion systems. Power consumption for oxygenation can be varied according to the oxygen demand of the process at a particular moment. Flexibility can be achieved by adjustable immersion of aerators, alternating operation of aerators, or a variable r.p.m of the aerator. The equipment life of this type of aerator could easily exceed 30 years.





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棉兰 PT Multi Bintang 可口可乐及啤酒厂 300 m³/日 氧化沟污水处理厂
PT Multi Bintang, Medan Coca-Cola & Brewery Plant 300m³/D Oxidation Ditch.



吉隆坡 Sunrise Mt Kiara 10000人口之氧化沟生活及处理厂座落于高密度住宅区
Sunrise Mt. Kiara, Kuala Lumpur 10,000 PE Oxidation Ditch S.T.P situated just next to the residential buildings



吉隆坡 JBT Kramat 3500人口之氧化沟生活及处理厂
JBT Kramat, Kuala Lumpur 9,500 PE Oxidation Ditch S.T.P



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峇株株车害 S & P Coconut 椰粉制造厂 100m³/日 氧化沟生活及处理厂
S & P Coconut, Batu Pahat coconut milk processing plant 100m³/D Oxidation Ditch WWTP



兴隆杨鸭农场 250000鸭只氧化沟污水处理厂
Heng Duck Farm 250,000 Ducks Oxidation Ditch WWTP



振顺乳牛农场 500头乳牛之氧化沟污水处理厂
Chin Soon Dairy 500 Dairy Cows & Milk Packaging Plant Oxidation Ditch WWTP



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Oxidation Ditch WTP



Oxidation Ditch Treatment for Rubber Latex Wastewater

Surface Aerator – Activated Sludge WTP



Textile Dyeing WTP



F.O.G WTP – Floating aerator



Beverage & Drinks WTP



Housing Project - STP





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Engineering Components Supply – Replacement of O.E.M. Equipment for WWTP





CORTINA TREASURE CORPORATION PTE LTD

Buy & Sell WWTP pretreatment equipment



Sub-Contract Steel Fabrication for various industries – under ASME and Ship Classification



Design, construct and supply package plants / modules for water treatment.





CORTINA TREASURE CORPORATION PTE LTD

BIOLOGICAL TREATMENT MICROBIAL CULTURES / BACTERIA PRODUCT

How Bio Treat Bacteria Works

1. Bacteria produces enzymes which break down and liquify organic waste substrate.
2. Liquid waste is further digested into by-products of water and carbon dioxide which are environmentally safe.
3. Bacteria multiplies and continue bio-degradation.
4. The rapid synergetic action of bacteria and nutrients optimises performance

BIO TREAT Microbial Cultures contain a selected blend of synergetic all natural ATCC Class 1 bacteria. These bacteria were specifically chosen for their accelerated ability to metabolize greases, fats, oils, food particles, organic waste, cellulose and detergents, converting them into harmless carbon dioxide and water.



Environmental Quality Assurance

The American Type Culture Collection (ATCC) defines Class 1 as:

1. Non Opportunistic – bacteria will not cause diseases in a compromised host. (Sick person)
2. Non Pathogenic – bacteria do not cause diseases.
3. Naturally occurring – bacteria are universal to earth, non-mutating and are NOT genetically engineered.

BIO TREAT BACTERIA PRODUCTS ARE:

- All natural Bio-Formulated
- Environmentally Safe
- Fast Acting, Synergetic Bacterial Action
- Non-Carcinogenic
- Non-Pathogenic
- Salmonella Free
- Enhances Biological Waste Treatment System
- Eliminates noxious odors, Reduces H₂S
- Alternatives to Hazardous Chemicals
- Easy to use - Safe for human, animal & plants
- Non-Corrosive
- Non-Toxic
- Bio-Degradable
- Environmental Friendly

Contact my local agent :



Microbial Formulations
for
Environmental Bio-Technology
Product from U.S.A.

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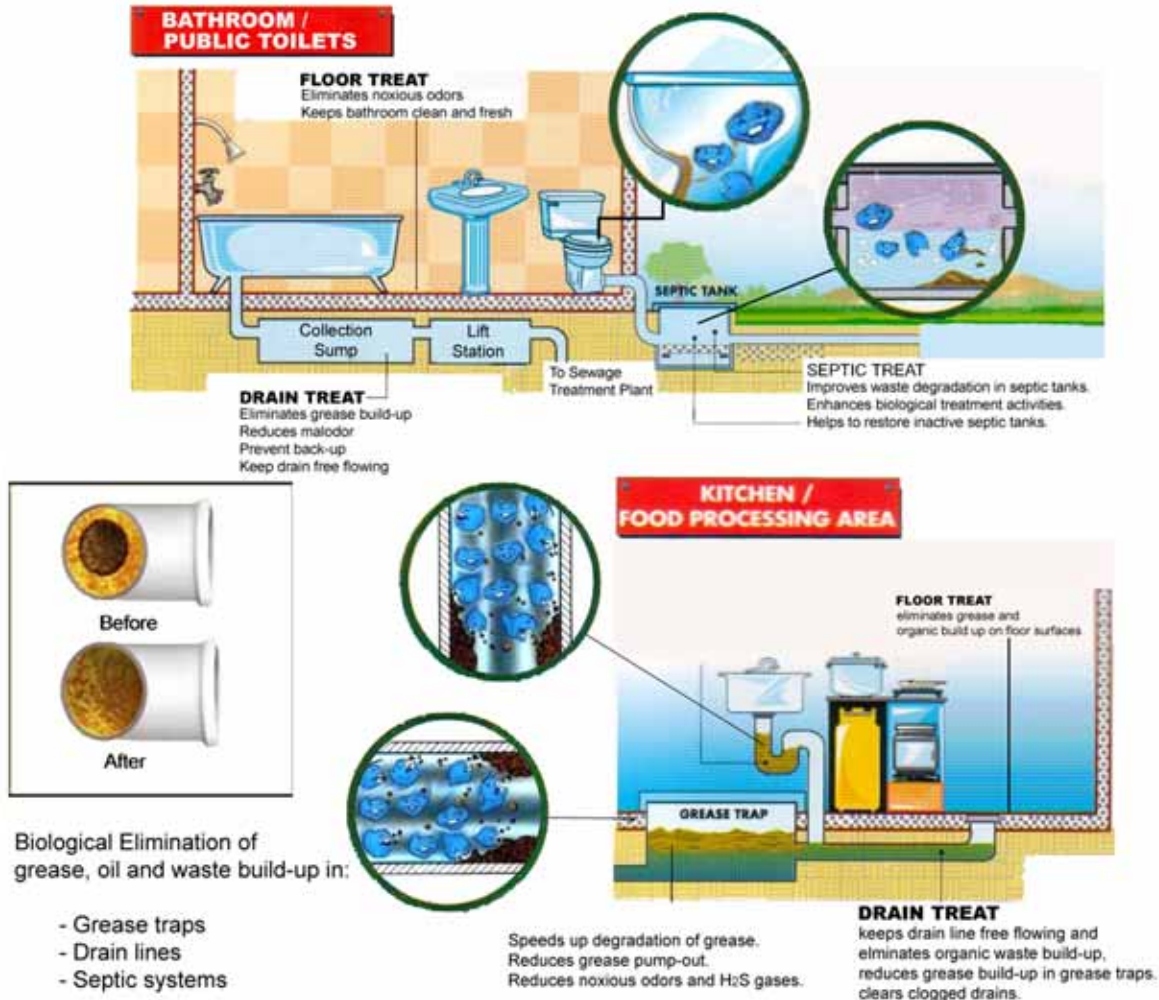
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CORTINA TREASURE CORPORATION PTE LTD

ELIMINATES ALL SOURCES OF MALODOUR REDUCTION OF ORGANIC WASTE ACCUMULATION



CORTINA TREASURE CORPORATION PTE LTD supply environmental friendly bio-formulated all natural, non-pathogenic, microbial cultures (bacteria, molds, and yeasts) for use in bioremediation of pollution, recycling and organic waste disposal problems. BIO TREAT bacterial products contain selected microbial cultures that would efficiently produce specific enzymes that are essential for the digestion (degradation) of organic materials.

Continuous use of BIO TREAT bacteria products reduces plumbing maintenance cost, reduces pump-out frequency. It utilizes the latest biological technology to keep grease trap and drain lines free from clogs and foul odors. The facultative bacteria offer greater continuous digestion while its spores form allows it to resist bleach, disinfectants and high water temperatures.

Stable liquid suspension of multi cultured bacterial cultures with high enzyme activity for fast and complete digestion. Salmonella free.



CORTINA TREASURE CORPORATION PTE LTD

BIO logical TREAT ment (BIO TREAT) Microbial Culture / Bacteria Products

All BIO TREAT products are custom formulated in the USA to be particularly effective at enhancing the natural reduction and recycling of specific organic waste matter. Application examples include:

GREASE TREAT	A special blend of microbial product for digestion of organic wastes high in animal or vegetable fats, e.g. grease traps, food processing plants, commercial bakeries, and pastries manufacturers. Dry and liquid blend.
DRAIN TREAT	For digestion of organic wastes and grease built up in drain lines of kitchens, food processing area, urinals, waste and septic system. Reduces obnoxious gases; neutralizes offensive odors. Eliminates sludge built up, reduces drain back up. Dry and liquid blend.
FLOOR TREAT	For down to bottom complete digestion of organic wastes and grease on flooring in kitchens, food processing area and washroom.
ODOR TREAT	A liquid formulation for the control of obnoxious gases; neutralizes offensive odors from urinals, garbage bins, rubbish chutes of food processing plants.
SEPTIC TREAT	Opens clogged tanks, Reduces organic sludge and sediments in septic systems. etc. Shopping centres / complex.
LAGOON TREAT	Digests organic wastes, reduces high B.O.D. lower sluge volume, enhance sewage treatment plants and animal waste holding lagoons. Reduces obnoxious odors. Prevent algae growth.
POND TREAT	Break down excess nutrients and maintain ecosystem in an environmentally balanced condition. Reduces organic bottom sludge and sediments, digestion of organic waste, algae, decayed leaves in recreational ponds, small lakes, water gardens and golf course water ponds etc.
AQUA POND TREAT	Prevent ammonia build-up; removes nitrogen compounds added to the pond water by shrimp feces, uneaten food and decaying algae; scavenges organic bottom sludge materials. Significantly reduces effects of pathogens thereby decreasing mortality rates, improves profitability through better feed conversion rate and product quality.
COMPOST TREAT	accelerate the composting of farm waste, agriculturae by-products and municipal solid organic wastes etc.
WASTE TREAT	A highly efficient waste digesting product for commercial / industrial sewage and wastewater systems; improves throughput of wastewater treatment plants for abattoir, slaughtering house, food manufacturing and processing industries, brewery and canning, seafood, shrimp and fish processing plants etc.

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Specially formulated BIO TREAT bacterial products for targetted industries includes:

- DAIRY TREAT – For treatment of organic waste from milk and dairy products
- LATEX TREAT - For treatment of organic waste from rubber and latex products
- PULP TREAT - For treatment of organic waste from paper and pulp products
- MANURE TREAT - For treatment of organic waste from animals and poultry waste
- TANNING TREAT - For bio-degradation of tanning waste, reduction of sludge.

Biological activity : 1.0 Billions CFU/gm; 250 Billions CFU/us gallon

Packing in plastic containers: 25 lbs., 5.0 gallons

INTRODUCTION



Cortina Treasure Corporation Pte Ltd (CTCPL) is the **LICENSOR** of the registered trademark **BIO TREAT™** brand of the full range of USA biotechnology product and the **BIOTECHNOLOGY TREATMENT SYSTEM™** application programs for the commercial and institutional also the industrial application. **BIO TREAT™** biotechnology product and the **BIOTECHNOLOGY TREATMENT SYSTEM™** application services would be achieved through looking forward management of all the **LICENSEES** that market and distribute **BIO TREAT™** biotechnology products in relation to wastewater treatment plant (WWTP) design and construction operation in Singapore and overseas projects.

CTCPL is offering a well proven business concept that delivers to customers innovative functional **BIO TREAT™** biotechnology products with reliable **BIOTECHNOLOGY TREATMENT SYSTEM™** application technique and practice of professional cleanup services, complete with well illustrated sales and marketing brochures, printed well proven operation manuals; as well as the CD Rom presentation.



LICENSEES are provided with **BIO TREAT™** biotechnology products study materials, invitation to training seminars to keep up with the industries know how and updated advanced technology information on the latest development in the industry. Supporting programs in **BIOTECHNOLOGY TREATMENT SYSTEM™** application services; research and development (R&D); advertisement promotions.

SUCCESS FORMULA

The superior **BIO TREAT™** biotechnology product and **BIOTECHNOLOGY TREATMENT SYSTEM™** of our Licensed Distributors would result to great success and the reliable Bioremediation service companies in the region. Prospective Licensee companies would achieve:

- Invaluable Sales and Marketing Experience in Product.
- Management skills & smooth business operations.
- Continuous deliver of highest quality **BIO TREAT™** products
- Successful **BIOTECHNOLOGY TREATMENT SYSTEM™** program / services
- Entrepreneurial Spirit.
- Profitable consistent rate of return to grow the future business.

LICENSE FEE UTILIZATION

- Corporate Brochures, Sales and Marketing Tool kits
- Initial consultations on **BIO TREAT™** product manual, Sales and Marketing Training, **BIOTECHNOLOGY TREATMENT SYSTEM™** application Manual,
- Yearly upgrade of product brochures,
- Use of prestige Corporate logos and marks, Management Systems, Advertisement material.

ROYALTY FEE UTILIZATION

- Corporate marketing and advertisement expenses
- Public awareness and mass campaigns costs
- Product Promotion Novelty Subsidy Funds
- Ongoing product information upgrade and continuous technical supports compilation cost
- Corporate news and updates, internet website hosting IT management costs.
- Up keeping and maintaining license exclusivity.