



IKS  
**Bio-Doze™**

**Biotech Help to the Environment**

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**Bio-Doze™**

**Bio-Doze™** are the range of products made of natural ingredients, industrial microbes and enzymes. These are made in leading Biotechnology labs and provide environmental solutions for: Management of industrial waste water and domestic sewage plants (STP's), Solid waste Management, Facility Management, Bioremediation of Water bodies (lakes, ponds, nallahs, ports and harbor), treatment of oil sludge and wastewater in refineries, Solid waste management and soil bioremediation, Handling hazardous waste and management of toxic chemicals, Bio-gas production, to name the few.



**Bio-Doze™ Liquid Pollution Control Range I1 to I13**



**Bio-Doze™ Solid Waste Management use Range SW1 to SW4**



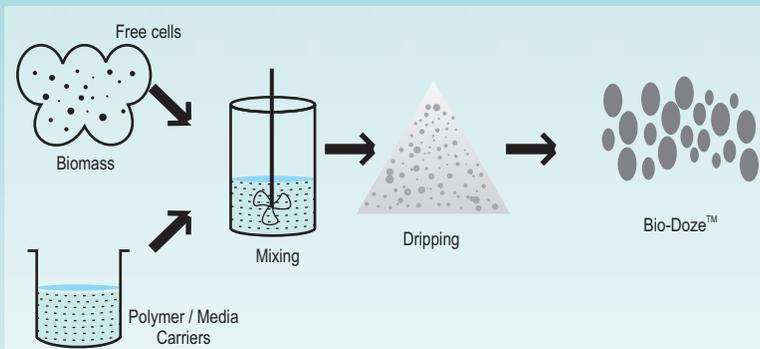
**Bio-Doze™ Bio-remediation Range W1 to W4**



**Bio-Doze™ Facility Management and Domestic Use range F1 to F8**

# About Bio-Doze™

Bio-Doze™ products are the synergetic blend of the pathogenic microbes with bio formulations of biological activators, nontoxic bacteria and micronutrients formulated to breakdown and digest fats, greases, olefins and vegetable oils suspended in wastewater. Bio-Doze™ range of biochemicals are formulated on the original principle of immobilization of pure cultures of microorganisms (bacteria, yeasts, fungi) or enzymes in stable porous carriers.



Bio-Doze™ comprises of Natural, Pure cultures-Flavobacterium spp., Pseudomonas spp. Or Mixed cultures- Consortia, Methane-utilizing bacteria (anaerobes) and Genetically engineered microorganism. More than 225 types of microbes are procured from apex global institutions. The resulting hibernated biozomes show excellent physical-mechanical characteristics, long-term mechanical stability, low biodegradability, zero toxicity,

easy separation from reaction media, and repetitive applicability of biological material. Bio-Doze™ contain maximum microbes in minimum volume (2 million CFU/g to 200 billion CFU/g).

Bio-Doze™ range of dormant, immobilized, sporulated or lysated microbial products, produce a prolific amount of diverse enzymes that penetrate and process insoluble oils and fats under any stressful environmental conditions. They work in wide environmental conditions both aerobic and anoxic conditions. Bio-Doze™ products do not contain any caustics or acids rather these are fully bio-degradable, Water based, Non corrosive, Non Hazardous, Non Flammable, Non Pathogenic and Completely safe. These are Bio-accelerators and Bio Catalyst to the natural recovery actions.



## Bio-Doze™ for Industrial Liquid Pollution Control

Bio-Doze™ offers following range of products for the Industrial Effluent treatment range:

Specialty No.	Form	Action	Ingredients
11	Powder	Coagulant & Flocculent, cationic poly electrolyte	Chitosan, Electrolyte
12	Liquid	Ammonia Sulfur gas scavengers-Odor Control	Microbes, Metabolites
13	Powder	Pro Biotic bio augmentation for bio reactor, Fat Oil Grease Control	Microbes, Herbs
14	Liquid	Essential Microorganisms(EM)	Microbes, Metabolites
15	Powder	Distillery Spent Waste management	Microbes, Enzymes
16	Liquid	Hospital Organic waste Management	Colloidal Silver
17	Powder	Anaerobic Digestion of Olive Oil Mill Waste	Microbes, Enzymes
18	Powder	Soft Drink Waste Water Treatment	Enzymes, Microbes, Organic Acid
19	Liquid	Devulcanise the Rubber Waste	Microbes, Metabolites
110	Powder	Hydrocarbon Spill Management	Microbes, Metabolites
111	Powder	Palm Oil Effluent Treatment	Microbes, Enzymes, Minerals
112	Liquid	Effluent Treatment Using Beneficial Algae	Live Algae
113	Liquid	Automobile Emission Improver	Microbes, Metabolites

## Benefits of using Bio-Doze™ products

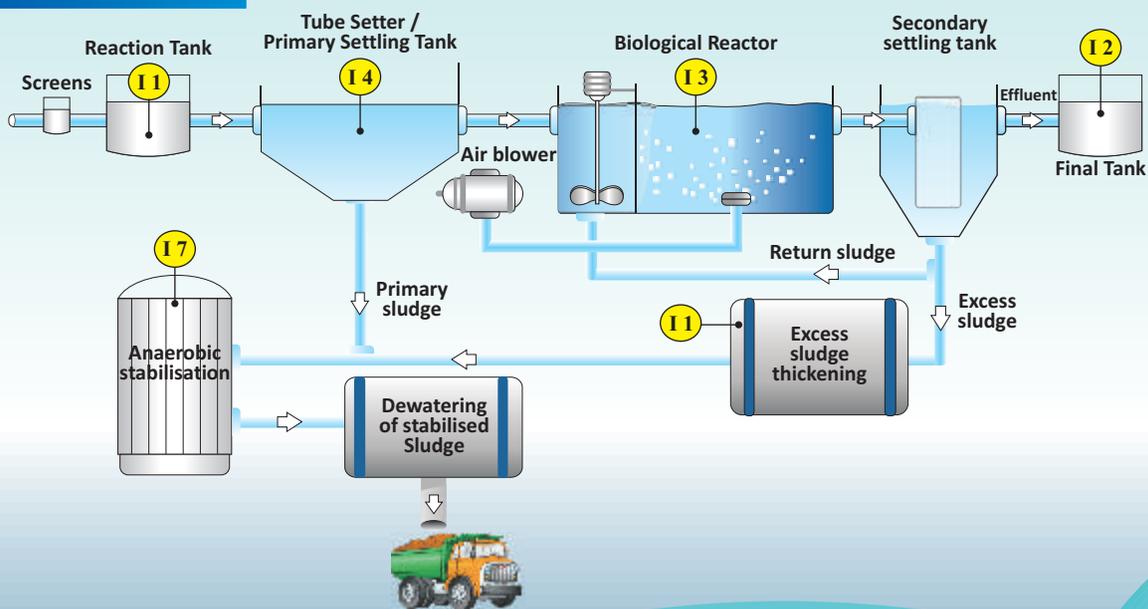
1. Reduction of nitrification and/or denitrification tank volume.
2. High BOD removal, Fat oil Grease control and odor control.
3. Lower energy consumption.
4. Lower sludge production, reduction of sludge management.
5. High process stability, high organic removal rate and degrading of complex organics.
6. Ability to respond to even highly fluctuating concentrations.
7. Highly active in extreme ammonia concentration.
8. Suitable for industrial waste water deficit of nutrients by maintaining F/M ratio.
9. Recovery from an upset condition.



## Role of Bio-Doze™ in Energy Management

The Technology eliminate the need for deploying capital intensive engineered remediation process as it provide the natural bioreactor. At less than 1/100<sup>th</sup> cost of building new treatment facility the results are achieved. By increasing the efficiency of bio reactors the operating cost of aeration system may be lowered up to 70%.

## Application Points



## Other range of Bio-Doze™ products for Environmental Solutions



### Bio-Doze™ for Solid Waste Mangement

Bio-Doze™ offers following range of specially prepared bacterial culture products for Solid Waste Management:

Specialty No.	Form	Action	Ingredients
SW1	Powder	Human Excreta to Bio Fertilizer	Microbes, Enzymes
SW2	Powder	Municipal Waste Treatment Additive	Microbes, Enzymes, Additives
SW3	Powder	Culture for Bio Gas Generation	Microbes, Enzymes
SW4	Powder	Methane Generating Unit	Minerals, Bio-Chemicals, Enzymes



## Bio-Doze™ for Facility Management



Bio-Doze™ offers following range of culture products for Facility Management:

Specialty No.	Form	Action	Ingredients
I2	Liquid	Odor Control	Microbes, Metabolites
I3	Powder	Fat Oil Grease Control	Microbes, Herbs
F1	Powder	Uric Acid degradation in Urinals	Microbes, Herbs
F2	Powder	Septic Tank Additive	Microbes, Herbs
F3	Powder	Drain Clog Remover	Enzymes, Microbes, Organic acid, Minerals
F4	Liquid	Household Fly Repellent	Microbes, Herbs
F5	Gel	Cockroach Repellent	Microbes, Herbs, Minerals
F6	Liquid	Mosquito Repellent	Microbes, Herbs
F7	Powder	Snake Repellent	Microbes, Herbs
F8	Powder	Fire Suppressant/ Fire Proofing	Chemicals
W1	Powder	Swimming Pool Cleaner	Potassium Mono per Sulfate
W1L	Liquid	Swimming Pool Cleaner	Colloidal Silver



## Bio-Doze™ for Bio-Remediation of Nallahs, Ponds, Water Bodies

Bio remediation is a process that uses microorganisms, fungi, green plants or their enzymes to return the natural environment altered by contaminants to its original condition. Bio-Doze™ offers following products for Bio-Remediation:

Specialty No.	Form	Action	Ingredients
I2	Liquid	Odor Control	Microbes, Metabolites
I3	Powder	Fat Oil Grease Control	Microbes, Herbs
I4	Liquid	Essential Microorganisms(EM)	Microbes, Metabolites
W1	Powder	Water Body Cleaner	Potassium Mono per Sulfate
W1L	Liquid	Water Body Cleaner	Colloidal Silver
W2	Liquid	Cooling Tower Algae Control	Microbes, enzymes, Herbs, minerals
W3	Liquid	Silica Fouling in RO	Microbes and Bio Chemicals
W4	Oily Powder	Evaporation Control of Water Bodies	Minerals, Alcohol, Fats

### BENEFITS OF USING

# IKS Bio-Doze™

### FOR THE ENVIRONMENT

- \* Increases natural purification with complete management from home, sewer, treatment plant to the water body
- \* Reduces green algae and water weeds
- \* Improves dissolved oxygen in water
- \* Improves recreational quality of water
- \* Can be highly specific
- \* If mineralization occurs get complete degradation and clean up, Reduces nutrients, heavy metals and organic content
- \* Does not transfer contaminants from one environment to another
- \* Over dose has no impact
- \* Good public acceptance
- \* Process is simple, affordable non engineered solution
- \* Treat the water and soil at the same time



Bio-Doze™ is a registered trade mark of  
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