

## ALL NEW BATCH REACTOR



Introducing BioGraS™, a game-changing system pioneered and continuously developed by Ariescor Water in 2022 to revolutionize environmental sustainability.

BioGraS™ stands as the most compact and advanced high-rate biological system in the Philippines, boasting minimal electricity usage and near-zero chemical dependency, solidifying its position as a leader in eco-conscious solutions. Its small footprint guarantees effortless integration into any environment, outshining the current biological and advanced oxidation technologies while lowering capital and maintenance costs. With its odorless operation, BioGraS™ delivers unparalleled convenience and effectiveness.

### System Standard Features

- Compliance to DENR Administrative Order 2016-08 & 2021-19
- Simplest Wastewater Treatment in the Philippines
- Dramatically Low Footprint (50% reduction in space requirements of SBR, MBBR, and AOP)
- Automated system (does not require trained personnel)
- Excellent Biological Nutrient Removal Technology (BNR)
- Flexible Operation (minimum of 3 hours of treatment per batch)
- Minimal to Zero chemical consumption
- 30%-40% reduction in power consumption
- Possess simultaneous Transfer & Draw system
- Denser and compact sludge, Fastest Settling Time (minimum of 15 minutes)
- Zero Sludge Handling Capability
- Can be incorporated after Septic Tank (Septic Tank serves as Pre-Holding Tank)
- Automated system (does not require trained personnel)
- 3-Year System Warranty

### Available Options

- Tank Materials: Concrete, Carbon Steel, Stainless Steel (304/316)
- Construction of Pre-Holding Tank and Sludge Digester Zone
- Septic Tank can be utilized as a Holding Tank and Sludge Digester
- Chlorine, Ozone, or UV for Disinfection
- Oil & Grease Separator/AriescorDAF/ClariDenSR™ as Pre-Treatment for Commercial/Industrial Applications
- Manual/Mechanical/Automated Head Works including Bar Screen, Grit Removal for Municipal and Large Capacity Industrial Wastewater Treatment Plant
- Additional Tertiary Filtration, UF/RO for Water Re-use

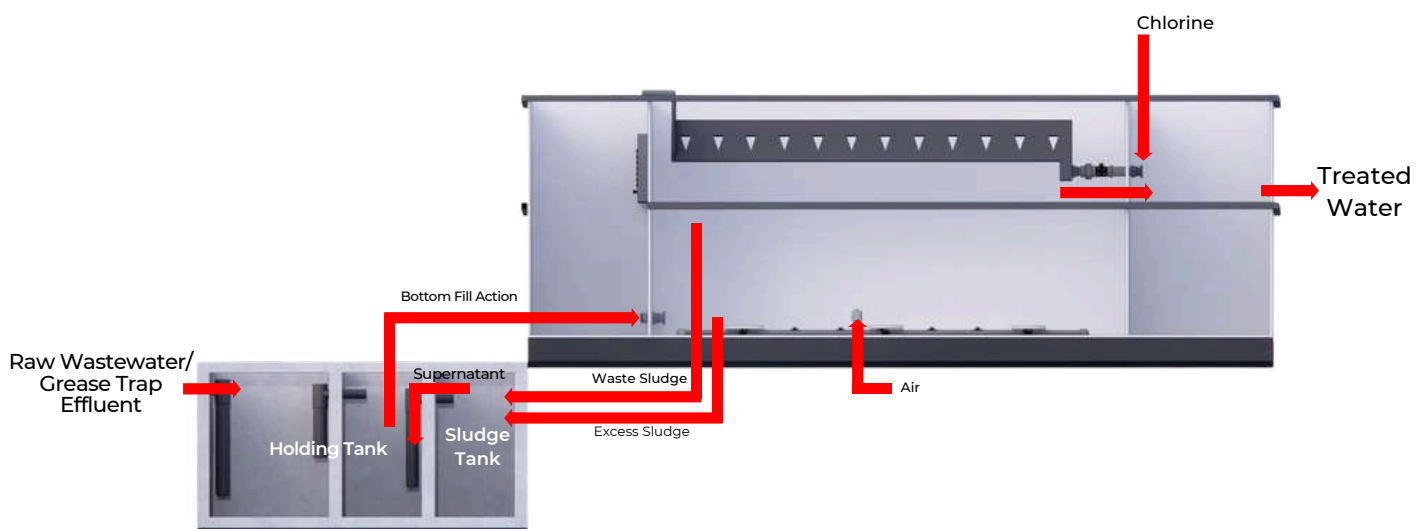


## ADVANTAGES OF BIOGRAS™ SYSTEM

- Excellent effluent quality
- Excellent sludge compactness which can reduce high capacity and interval of sludge treatment and disposal requirement
- Lowest space requirement compared to the traditional technologies including Conventional Activated Sludge (AAO, MLE), Sequencing Batch Reactor (SBR), Moving Bed Biofilm Reactor (MBBR), and Advance Oxidation Process
- Reduction in chemical dosing through the advanced simultaneous Fill and Decant system aiding the Phosphorus Accumulating Organism (PAO) to thrive and perform a Pure-Biological Nutrient Removal System
- Reliable Technology references all over the Philippines

Item	SBR	AOP	BioGraS™
Capital Investment	High	Medium	Low
Operation Cost and Complexity	Medium	Low	Lowest
Footprint	Large Footprint	30% Less	80% Less
Chemical Usage	80-90% less	High usage	90-100% less
Membrane and Filtration Usage	N/A	Included	N/A
Nutrient Removal Efficiency	Requires Coagulant/Filtration for Ammonia & Phosphate Removal	Requires Filtration & RO for Ammonia & Phosphate removal	N/A

## BIOGRAS™ SCHEMATIC



# Project Highlights

## REFORMISTA PUBLIC MARKET

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## ENERGY DEVELOPMENT CORPORATION - BAGUIO

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# Project Highlights

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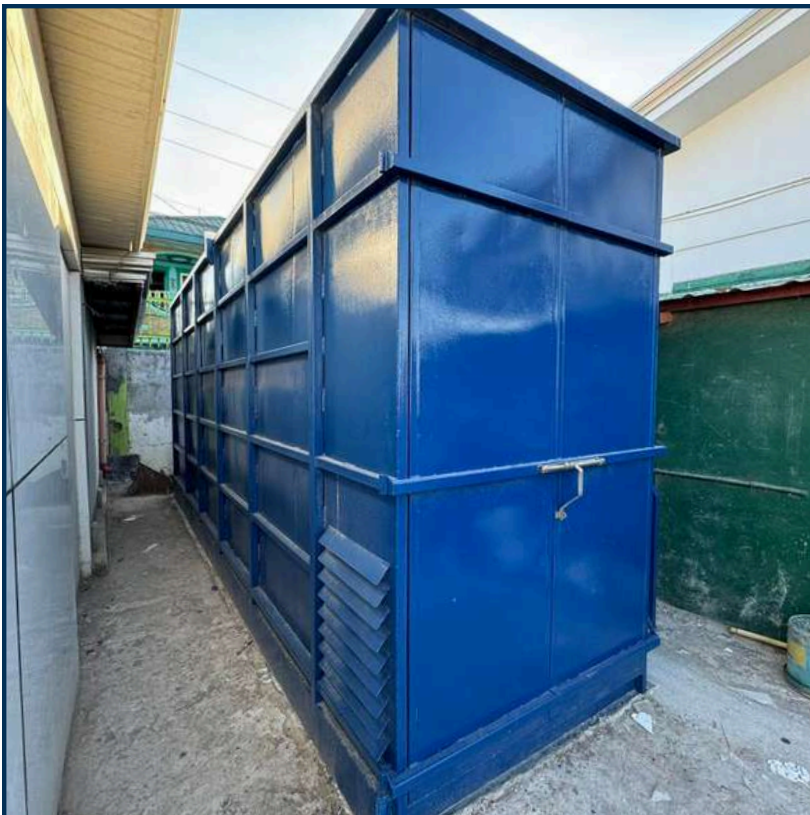
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# Project Highlights

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## ASA COLORS AND CHEMICALS, INC.

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# Project Highlights

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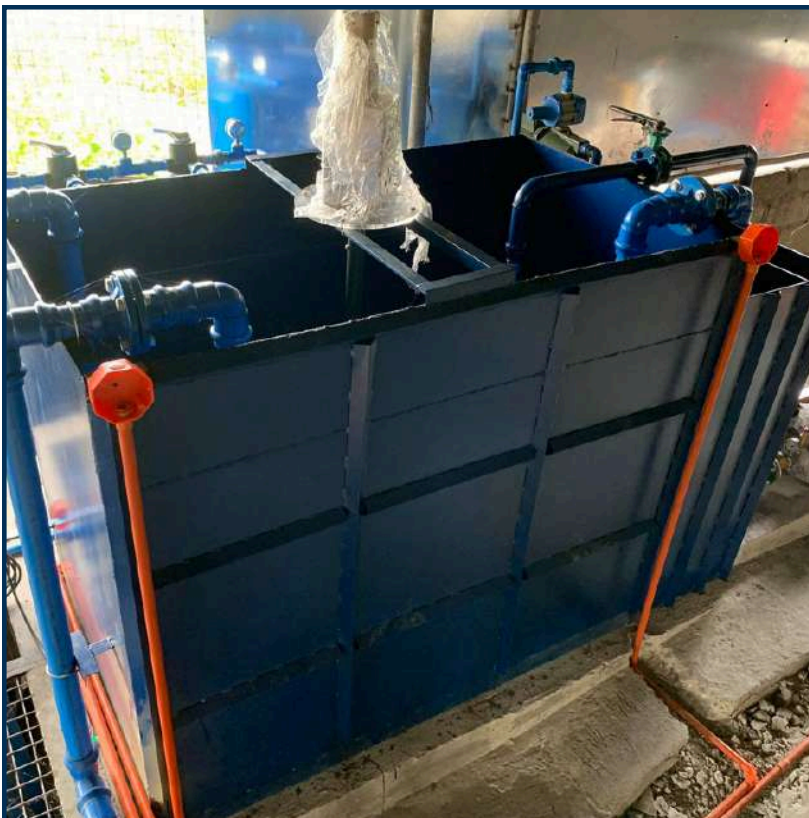
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# Project Highlights

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# ARIESCOR® WATER

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**ARIESCOR® WATER**

BRINGING WATER EVERYWHERE