

Puri Chem

Integrated Water Systems







Who Are We?

- ✓ PuriChem is an engineering company specialized since 2007 in design and implementation of integrated water and wastewater treatment systems for various applications in industry and municipalities.
- ✓ PuriChem evolved throughout 17 years of extensive knowledge and well earned experience to become a full stack engineering and construction company providing its services in Egypt and overseas in the industrial sector; proving to be competent in civil, architecture, mechanical and electrical and chemical engineering and construction.





- ✓ We pride ourselves as one of the leaders in the industry; providing the latest technology and equipment allowing us to give our clients the best service possible onsite and through other media.
- ✓ Projects engineered and executed by PuriChem are implemented using the latest, cutting-edge techniques and methodologies, ensuring optimal efficiency and innovation.





✓ In every project, we prioritize sustainable practices, integrating solutions that reduce environmental impact and promote the reuse of resources. Our commitment extends to minimizing waste, conserving water, and utilizing energy-efficient technologies, helping to create a more sustainable future.



ABOUT US

Entities

2007

Egypt

Administrative Office

Engineering Office and Workshop



CWEP0197

Compass Building, Al Shohada Road,

Al Hamra Industrial Zone-FZ,

Ras Al Khaimah



UAE



Al Dar Al Baida District, Riyadh





Our Business Partners























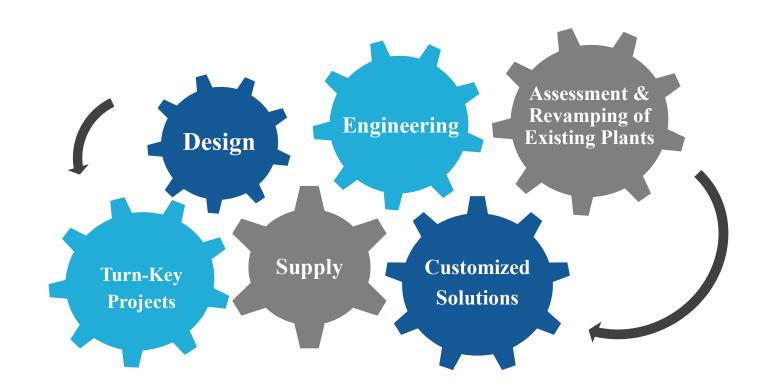






Scope of Work

Capabilities







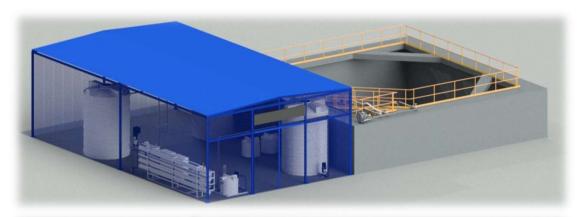
Design and Engineering

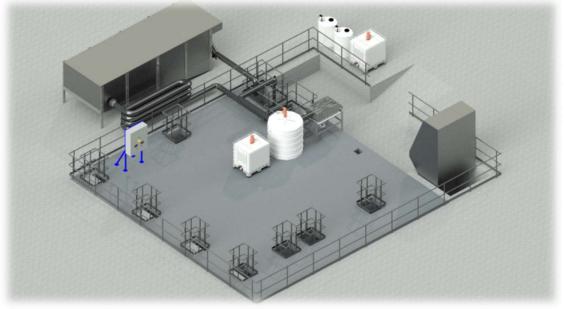
- ✓ Dedicated Design and Engineering Team
- ✓ Customized and Tailor-Made Designs
- ✓ Special Designs for challenging quality or footprint
- ✓ State of the art Engineering packages and 3D Models
- ✓ Latest technologically advanced and energy efficient Equipment selection taking into consideration projects CAPEX and OPEX challenges

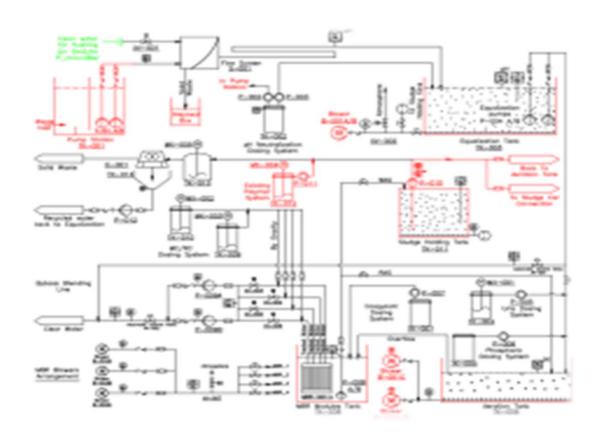




Design and Engineering



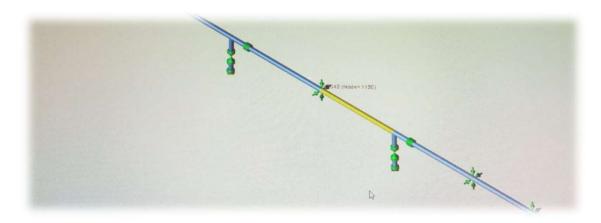








Design and Engineering













- **✓ Qualified Site Teams**
- ✓ Following HSE Regulations for the most safe and productive site conditions
- ✓ Standard Materials of construction and Supporting philosophies
- **✓** Qualified subcontractors
- ✓ In-house Power and Automation Panels including all programming and HMI interfaces















































Workshops

Workshops Areas

#	Length	Width	Area
Workshop 1	44 m	13.30 m	585 m ²
Workshop 2	93.45 m	13.50 m	1261.50 m ²
Workshop 3	12 m	13.50 m	162 m ²
Workshop 4	12 m	13.50 m	162 m ²
Workshop 5	12 m	13.50 m	162 m ²
Workshop 6	12 m	13.50 m	162 m ²









Workshops Activities

• Manufacture and installation of Tanks and Pressure Vessels









Workshops Activities

• Manufacture and installation of Metallic Steel Structures



Manufacture and installation of Piping



















Industrial Construction

- ✓ PuriChem has acquired industry knowledge and experience and talents that makes it fair to be called a "rising star" in the Industrial Construction Sector.
- ✓ Our team is comprised of experienced talents in the various engineering disciplines with wide array of knowledge and tools in industrial construction and with an extensive experience in the field.
- ✓ Our Project Management techniques and tools allow us to deliver any given project at the utmost quality, meeting project schedules and budgets.





✓ QHSE: We strive to have the highest standards in quality management, health, safety and environmental standards. PuriChem implements the highest standards and is in a continuous improvement process in order to maintain our clients' requirements and ultimately their satisfaction.









Civil and Structure

Piping Installations

- Including all types of materials
- Heavy and special lifts study
- Control quality and required report
- Support design and installation
- Under ground, above ground or inside basin networks











Steel Structures and Platform Installations

- Platform, grating, ladders and handrail for walkways and any access point.











Equipment installation

- Lifting works for Heavy and light equipment
- Installing equipment over platforms and intermediate floors
- Equipment assembly according to vendor drawings









Insulation, blasting and painting

- Fiberglass Insulation
- Foam Rubber Insulation
- Polyethylene Foam Insulation
- Mineral Wool (Rock Wool) Insulation
- Sand Blasting
- All types of Paintings









Civil Engineering

- Steel and concrete structures design and construction.
- Deep and shallow foundations design and construction.
- Dewatering and shoring techniques.
- Infrastructure excavation and pipe/cable laying techniques.











Civil Engineering















Industrial Buildings MEP

- HVAC
- Firefighting and Fire Alarm systems
- Industrial Interior Finishing (Raised Floors, Epoxy flooring, False ceilings)
- Insulation and water proofing systems
- Fire-Rated steel and wooden Doors













Electrical Networks

- Distribution Panels building and installation
- MV/LV Equipment Installation
- LV Cables and Conduits, Power & Lighting Installation











Integrated Water Systems





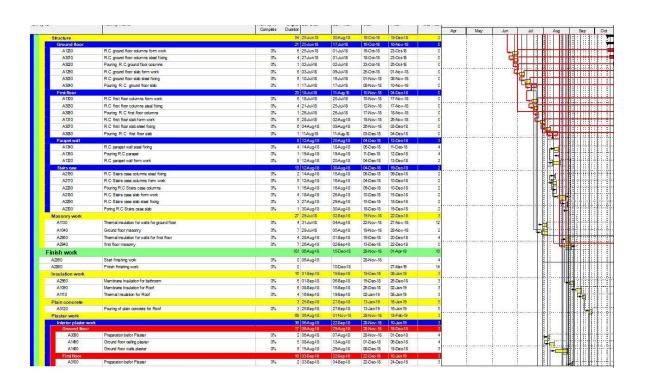


Project Management

Planning for Successful Delivery

-1,000,000

- Accurate time and cost estimations
- Time planning using CPM, LOB
- Resource Planning and Levelling



3,000,000 6.000,000 Cash flow Histogram 2,647,660 5,000,000 2,500,000 2,311,627 4,000,000 2,000,000 3,000,000 1,500,000 2,000,000 1,000,000 1,000,000 500,000 201,730 -1,000,000 -2,000,000

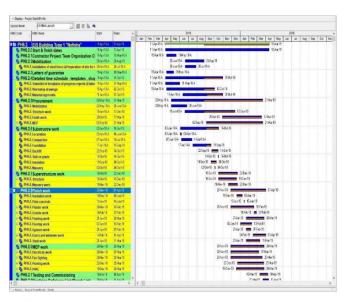
Cash flow / month

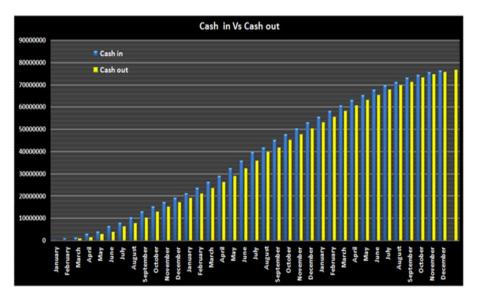


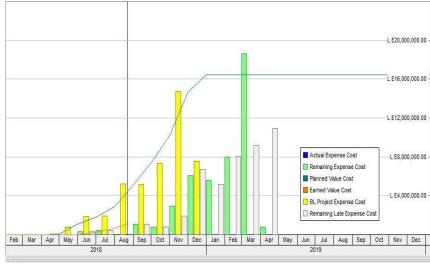
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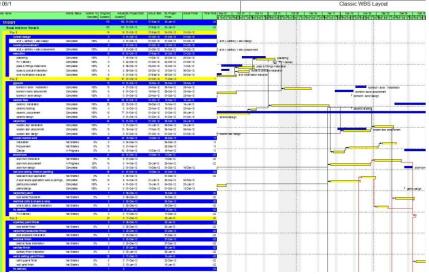
Risk Management

- Risk analysis, elimination & mitigation
- Real-time schedule analysis and control

















Wastewater treatment and Reuse Plants

Wastewater treatment and Reuse Plants

- ✓ Industrial & Domestic Wastewater Treatment Plants & Revamping/ Upgrade of Existing IWWTP.
- ✓ Reuse of Wastewater to Maximize Recovery, & Energy Optimization
- ✓ Optimizing reused water % mainly based on Energy Efficiency, Process Reliability & Cost Effectiveness.
- ✓ In the following slides, a glimpse of our Wastewater treatment and Reuse Projects will be shown





Mondelez BEA Industrial Wastewater Treatment Plant

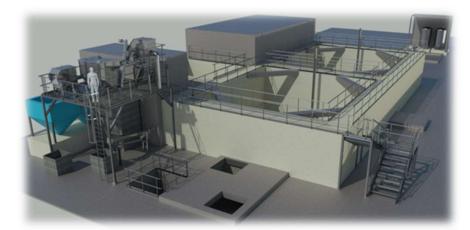
Subcontractor to NALCO Water

- Discharged water quality matches the stander disposal limits in the Egyptian Law.
- Ultra-pure produced treated water suitable for further reuse.
- Capacity: 60,000 litter/day.



Chipsy Assuit Industrial WWTP Upgrade

- -Industrial wastewater treatment plant revamping and upgrade.
- -The produced water matches the Egyptian laws for advanced treated water reuse in irrigation.
- Capacity: 600 m³/day
- 600 m of Piping, Physical and Biological Treatment Equipment Installed







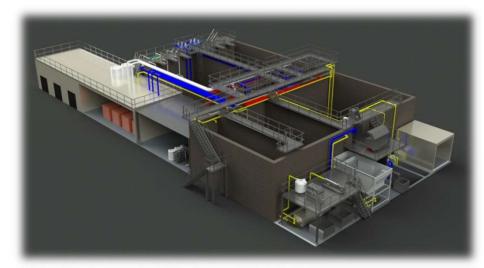


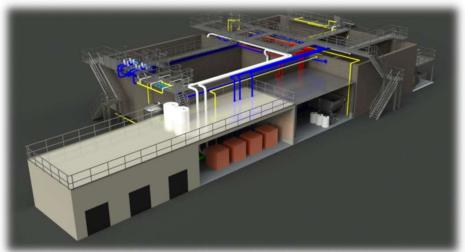


Chipsy Amoun IWWTP 1050 CMD with Future Reuse

- A state-of-the-art IWWTP with capacity 1050 m3/d designed based on 2 Stage Biological Treatment Processes (MBBR-advanced UF-MBR) to be able to meet strict governmental regulations as well as future reuse phase.

- Capacity: 1,050 m³/day











Agthia Industrial Wastewater Treatment Plant

-Industrial wastewater treatment plant designed to produce water with quality matching Egyptian standards for wastewater discharge

-Capacity: $1,000 \text{ m}^3/\text{day}$

-Physio-Chemical Separation Process







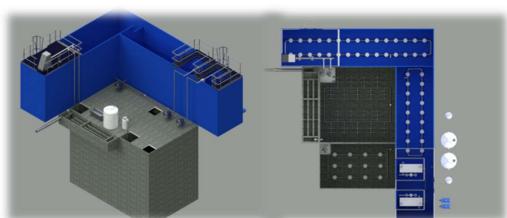




Al Galala Compact Advanced Sewage Treatment Plant (iMBR)

- Advanced sewage treatment plant is designed to treat municipal wastewater for reuse in irrigation.
- The submersible ultra-filtration technology produce water with high quality that matches the Egyptian laws for advanced treated water reuse in irrigation of fruitful trees.
- Capacity: 500 m³/day











Chipsy New Advanced Industrial Wastewater Aeration System

- PuriChem re-designed old aeration system to new advanced industrial wastewater aeration system
- The integrated design was able to achieve the main goal of the project to enhance aeration efficiency with proven energy savings, reduced carbon emissions, and lower maintenance cost.
- Capacity: $2,000 \text{ m}^3/\text{day}$









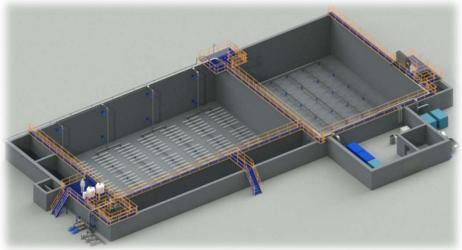


Pepsi October Industrial WWT & Reuse Plant

- The retrofit of the IWWTPs with capacity 1600 m3/d redesigned based on advanced MBR biological treatment to be able to meet more strict governmental regulations as well as prepare for partial reuse opportunities.

- Capacity: 1,600 m³/day











Visual Results and Sample Analysis



Inlet COD 2900 mg/l

MLSS 5050 mg/l Outlet COD 45 mg/l









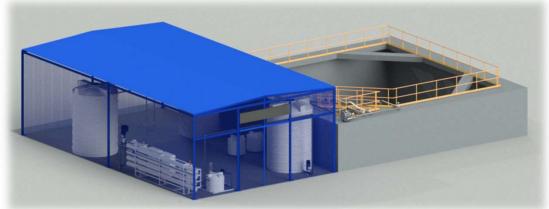
Chipsy October Industrial WWT & Reuse Plant

- Industrial wastewater treatment plant upgrade is designed to accommodate the increase in organic load due to increasing water saving.
- The plant will produce water with superior quality exceeds Egyptian standards for reuse in irrigation.
- Capacity: 540 m³/day
- Recovery ratio: Up to 70%















Chipsy October Industrial WWT & Reuse Plant

Preventive Sector
Central Health Laboratories



قطاع الطب الوقاتي الإدارة المركزية للمعامل قسم المياه

نثيجة قحص عينة مياه ليعض المكونات

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خزان میاد	مكان لخذ العينة :	بلجر	1	الزقع السزى
2022-11-24	N1 M1 4 11			

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مديد ادارة الكيماوي عن مي المتاح



age 1 of 1

dr/marwa abd el fatah

El Shiekh Rehan Street - Abdien Cairo , Egypt 19 19 في فلنبخ ريمان-ماينون القاعراد

مصر



Final stage treated water sample analysis from NRC & MOH







National Research Centre Analysis and consultation unit Domain of Evaluation and Remediation of Hazardous Solid Wastes



المركز القومي للبحوث وحدة التماليل والاستشارات المجال الاستشاري لتقييم ومعالجة المخلفا الصلية الفطرة



	Da	te:	23	/11	1/2	02
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Parameters	Unit	Results	Ministerial*** Decree
pH	-	6.49	6.5-8.5
Turbidity	NTU	0.45	1
Color	Co/Pt	Colorless	Colorless
Odor	-	Odourless	Odorless
Total dissolved solids	mg/L	58.1	1000
Total hardness	mg/L	3.5	500
Calcium hardness	mg/L	2.75	350
Magnesium hardness	mg/L	0.75	150
Ammonia	mg/L	· N.D	0.5
Chloride	mg/L	3.1	250
Fluoride	mg/L	0.12	0.8
Sulfate	mg/L	2.25	250
Nitrite	mg/L	N.D	0.2
Nitrate	mg/L	0.8	45
Sodium	mg/L	7.75	200
Cyanide	mg/L	< 0.001	0.05
Iron	mg/L	0.06	0.3
Manganese	mg/L	< 0.01	0.4
Zinc	mg/L	< 0.001	3
Copper	mg/L	<0.01	2
Aluminum	mg/L	0.03	0.2

*The sample was collected by the authorized person from the Company

**N.D: Not Detected

*** For Standard limits of drinking water

Prof. Dr. Enas Abou Taleb

Enas About aleb

Prof of Wastewater Treatment
Technology and Environmental Studie

Prof. Dr. Hanan Sayed
Prof of Wastewater Treatment Technolo

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e-mail: enas aboutaleb@yahoo.com



Chipsy Obour Industrial WWT & Reuse Plant

- Industrial wastewater treatment plant upgrade is designed to accommodate the increase in organic load due to increasing water saving.
- The plant will produce water with superior quality exceeds Egyptian standards for reuse in irrigation.
- Capacity: 540 m³/day
- Recovery ratio: Up to 70%













Pepsi Menya Industrial WWT & Reuse Plant

- The retrofit of the IWWTP with capacity 120 m³/d re-designed based on advanced MBR biological treatment and the introduced to heavy duty RO plant in order to produce 85 m³/day of ultra pure water ready to be reused

in the process

- Capacity: 85 m³/day





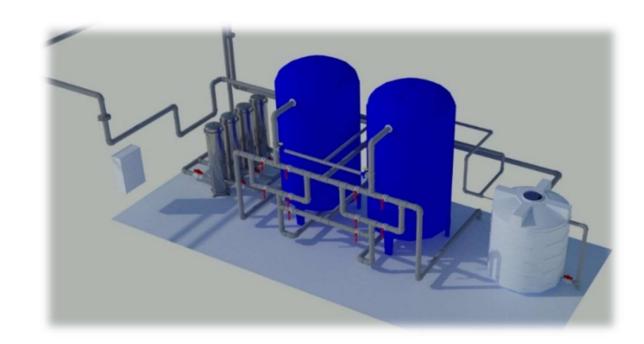






Golden Oil Water Treatment and Reuse Plant





- Water treatment, Reuse and Boosting system
- Capacity: 1,920 m³/d





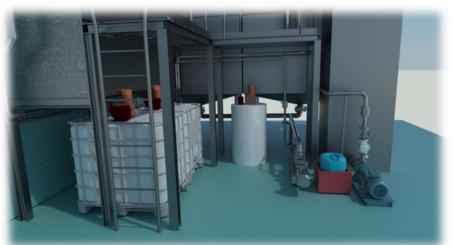


Pepsico Fritolay Pakistan Industrial Wastewater Treatment And Reuse Plant

Subcontractor to NALCO Water

- Industrial wastewater treatment plant producing treated water suitable for reuse
- Capacity: 360 m³/day
- Removal Efficiency: 90% Achieved











Spring Beverage SBR Industrial Wastewater Treatment Plant

- Industrial wastewater treatment plant producing treated water suitable for disposal to governmental network

- Capacity: 60 m³/day

- Technology Used: SBR















Paste & Juice Industrial Wastewater Treatment Plant

- Industrial wastewater treatment plant for paste and juice factory is

designed to produce water with quality matching the Egyptian standards

for wastewater discharge as well as prepare for future reuse

opportunities.

- Capacity: $2,500 \text{ m}^3/\text{day}$











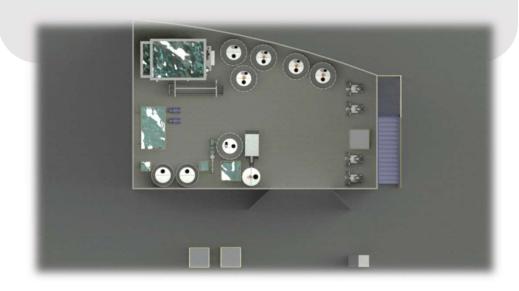




Symrise Advanced Industrial Wastewater Treatment Plant

- Capacity: 60 m3/d

-Technology: UF-MBR







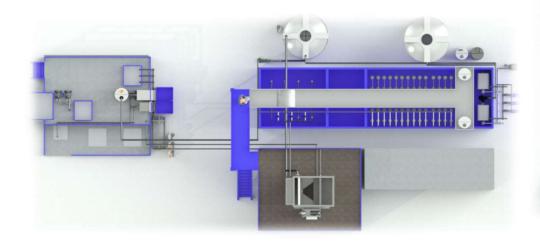


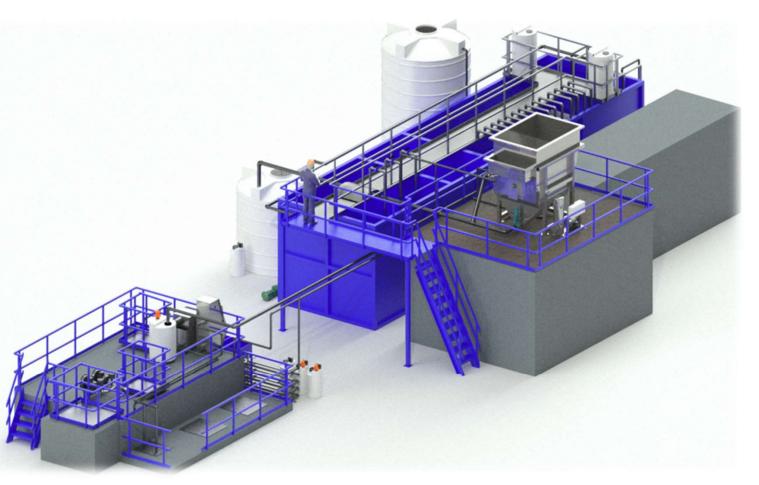


MARS-FBL Advanced Industrial WWTP

- Capacity: 120 m³/d

-Revamping and upgrading the existing IWWTP using 2 Stage biological Treatment system (MBBR – MBR)











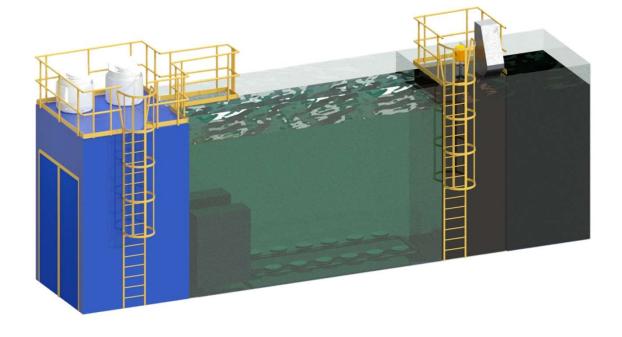


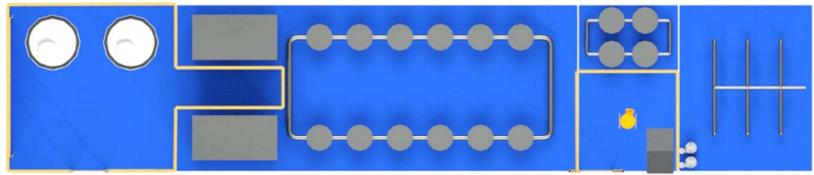


Compact Sewage Treatment Plants

Compact Container shaped 150-200 CMD Plants



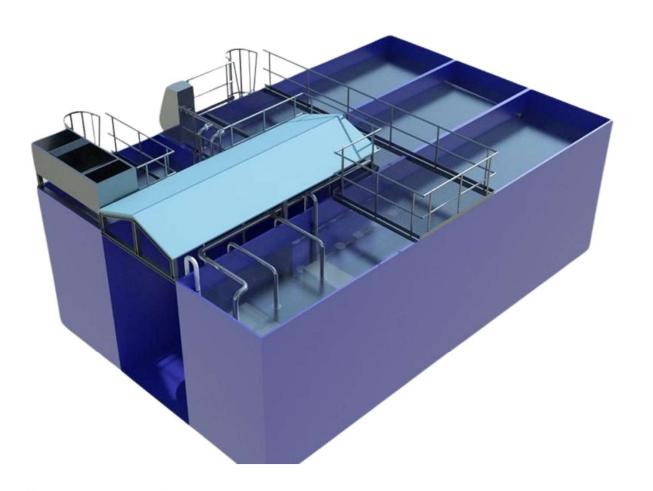


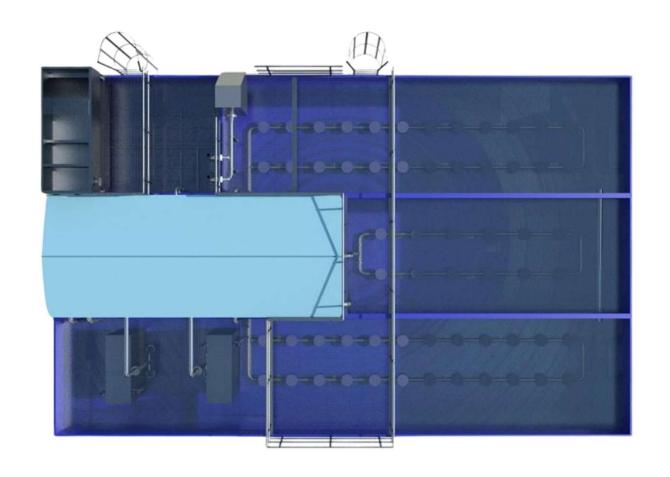






Compact Container shaped 250-1000 CMD Plants













Water Treatment, RO and R2RO Plants

Water Treatment, RO and R2RO Plants

- ✓ Tailor-made designs & systems according to specific case requirements.
- ✓ Successful projects with outstanding sustainable goals.
- ✓ In the following slides, a glimpse of our Water Treatment, RO and R2RO Projects will be shown





Cargill New DPRO WTP & Revamping Existing WTP

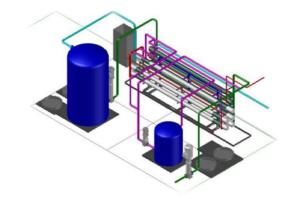
Subcontractor to NALCO Water

- Replacement of existing pretreatment system with Two ultrafiltration modules and Design, commissioning & startup of New Double Pass RO WTP.

- Capacity: 3,360 m³/day Ultrafiltration system, 600 m³/day RO system











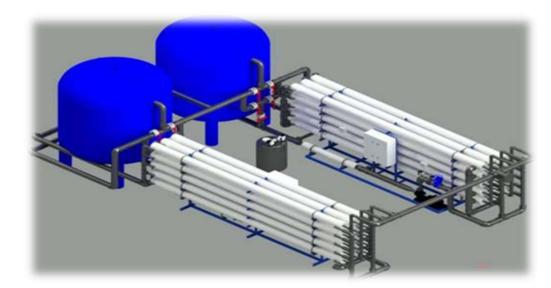




MIDWATER RO Water Treatment Plant

Turn-key RO Water treatment plant

- Water type: Brackish surface conventional
- Capacity: 3,600 m³/day
- Recovery: up to 75%











Aquafina R2RO Water Recycling Treatment Plant

-The plant is designed to collect reject water from 2 existing RO plants with different capacities and reuse it after treatment for beverage manufacturing lines.

-Capacity: 432 m³/day







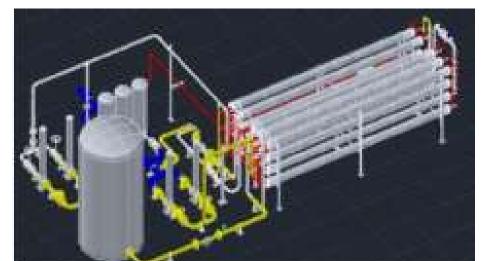






ADITYA BIRLA (Alex Carbon Black) ZLDA Project

- Phase I: Double pass RO (DPRO) for High pressure Boiler Demineralized water (1,200 m³/day)
- -Phase II: R2RO treatment Plant to treat DPRO system reject water to be reused in cooling tower (650 m³/day).
- Phase III: Cooling tower bleed water recycling pretreatment system (432 m³/day)
- -Total effluent water now is (192 m³/day) instead of (1,200 m³/day) before project.









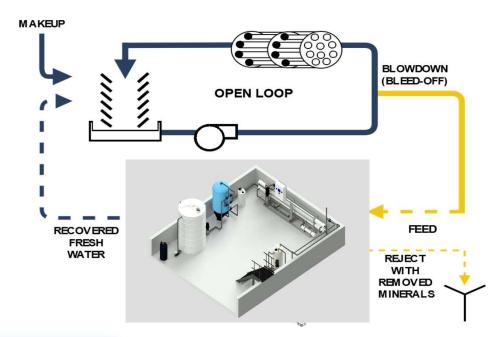


Mondelez BEA Cooling Tower Blowdown Reuse Project

- Capacity: 200-240 m³/day

- Recovery: up to 75%

- Produced water will be used as make up water for boiler to reduce boiler blow down, chemical consumption and fuel consumption













Koning Food Industries RO Water Treatment Plant

- -RO water treatment system is designed to treat city water to be used in different industrial purposes
- -Raw Water Flow Rate: 888 m³/day
- -Product water: 720 m³/day
- Total recovery ratio up to 81%











Mars Egypt Water Quality Improvement Project (WQIP)

- City Water Feed Line Chlorination and Monitoring system, VS1 New WTP, Circulation & Disinfection Loop, and VS2 Upgraded WTP, Circulation & Disinfection Loop
- -Supply and Install Zero Dead Leg Valves for Zero bacterial contamination in all loops
- -Capacity:
- 240 m³/d Water circulating system for VS1.
- 62.5 m³/d Water circulating system for VS2.
- Piping: 1,500 meters







MARS-FBL Soft Water Treatment Plant

- Capacity: 384 m³/d





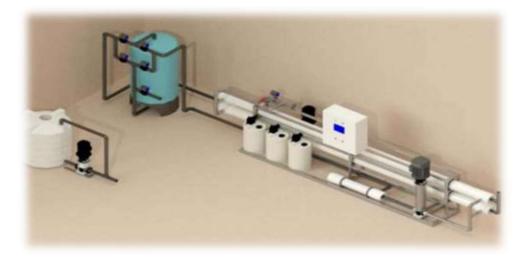






Golden Beach Brackish Water RO Treatment Plant

- Water type: Near Red Sea Brackish Well Non-Fouling
- Capacity: 150 m³/day
- Recovery: up to 55%
- Fully controlled compact system with small footprint
- High technology RO membrane elements for low differential pressure.











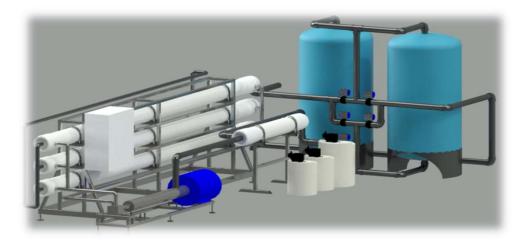
Golden Beach Sea Water RO Treatment Plant

- Water type: Sea Water

- Capacity: 225 m³/day

- Recovery: up to 45%

- Fully controlled compact system with small footprint
- High technology RO membrane elements for Sea Water Applications.











Sphinx Glass City Water RO Treatment Plant

-RO water treatment system designed to treat city water to be used in different industrial purposes.

- -Raw Water Flow Rate: 528 m³/day.
- -Product water: 480 m³/day.
- Total recovery ratio up to 90%.



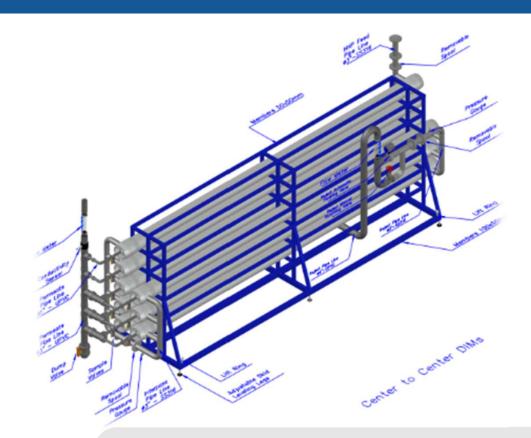








Birla Carbon Egypt RO Skid





RO Skid replacement with a new Skid and Piping







Other Water Treatment Projects

Demineralization Water Treatment Plant

-Replacement of existing ion exchange demineralization unit with the new RO water treatment system

-Closed-cycle (circulating) Permeate water disinfection and conductivity monitoring system.

-Capacity: 240 m³/d



Pepsico El-Menya R2RO Water Treatment Plant

-The plant is designed to collect reject water from existing RO plant, treated it and directed it to raw water tank ready for reuse.

-Plant over all capacity up to 50%

-Capacity: 240 m³/day







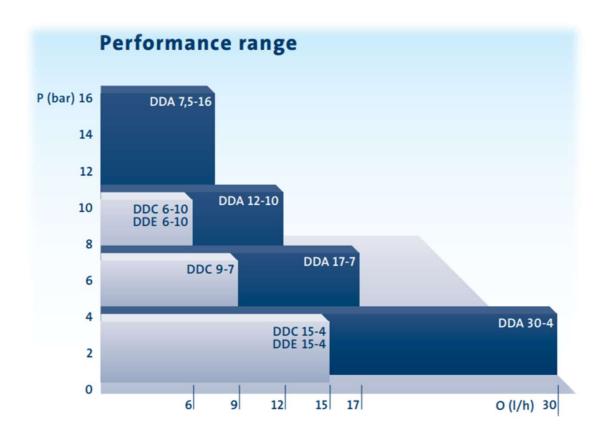


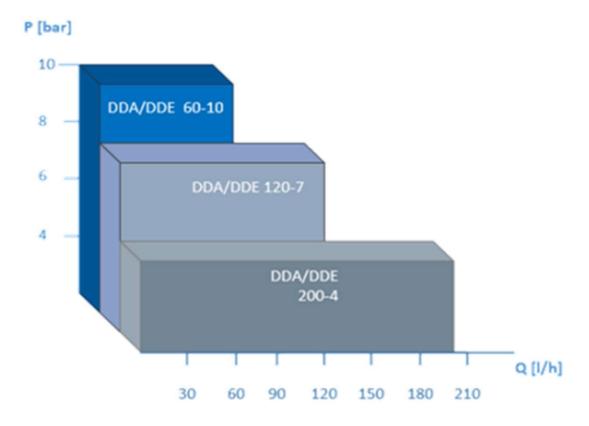






✓ PuriChem Offers a wide range of Dosing Systems (6 ml/h - 200 l/h)









SMART Digital Monitoring and Dosing can be used in a wide range of:

- Disinfection
- pH adjustment
- Chemical dosing
- Cleaning-in-place
- Reverse osmosis

- Biocides
- Coagulation
- Precipitation/Flocculation
- Filtration





• Custom-designed systems tailored to customer specific needs and applications



• Complete Dosing Skids











ABB Chemicals Dosing Skids

Design and Fabrication of 16 chemicals dosing skids including piping, fittings and all related accessories for ABB















Nalco High Pressure Dosing Skid

- Dosing Skid with Grundfos Simplex headed piston hydraulic diaphragm dosing pump
- Complete System with accessories as SS pulsation damper to even out pulsating flow & pressure.
- Control Box to connected to 2-step level switch to avoid dry running.
- Optimizing Relief Pressure with respect to process operating pressure.











SIDPEC Cooling Towers Multi-chemical Compact Dosing Skid

Client: Nalco

- Multiple Channels for dosing chemicals in limited
- spaces
- Ease of mobilization and relocation
- Junction Box for Pumps power











Saint Gobain Mirror Line Dosing System

- 6 Automatic Dosing Skids for Chemicals used in silvering operation.
- Monitoring of Water Parameters as Pressure, Flow & Temperature.
- Monitoring of Water quality by means of conductivity measurement & control system









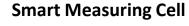




Chlorination and Disinfection

Hydepark Chlorination System

Flow Transmitter



Free chlorine and pH Sensors come precalibrated and ready to measure. Their non-contact, inductive signal transmission eliminates all problems due to moisture, temperature or EMC interferences

Primary / Secondary Free Chlorine Monitoring and Dosing System

- •Chemicals resistant tank
- Handheld mixer or electric stirrer
- Rigid suction lance or foot valve made of PE
- Prepared for the installation of a various types of dosing pumps

wide variety of wetted materials no pressure loss due to cross-section

- -free no

constriction Maintenance moving parts Convenient device wiring Heartbeat Technology



Primary Dosing System

- Smart, modular & compact design requires limited area
 - Fully Automated Chlorination System for Potable Water
- Primary & Secondary proportional dosing based on flow and free chlorine inputs

Main Water Tank







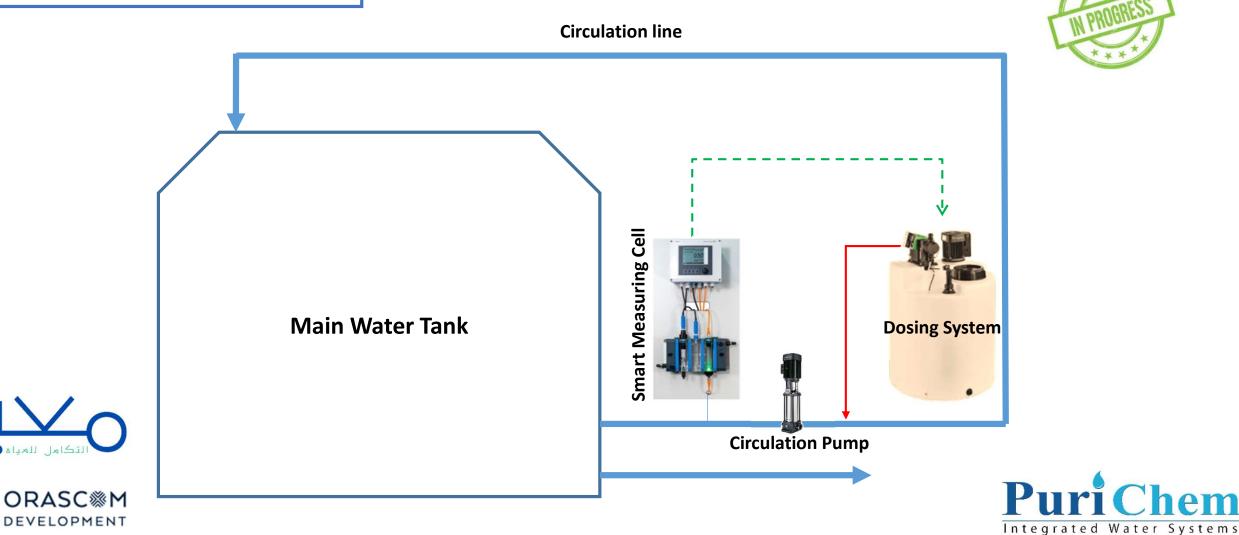






O-West Chlorination System

Circulation Based Free Chlorine Monitoring and Dosing System







Official Business Partnership Certificates

Business Partnerships









Business Partnerships





THE KAITEKI COMPANY

Reference No. MCC22047

Date: 22th March 2022

Authorized Distributor Certificate

Mitsubishi Chemical Corporation located in 1-1 Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8251, Japan, provides a wide range of hollow fiber membrane products "STERAPORE^{TM"} to serve a variety of industrial and municipal water treatment.

Mitsubishi Chemical Corporation hereby confirms that the company

PuriChem Integrated Systems

located in 22 Syria Street - Roushdy, Alexandria, Egypt is our distributor for our products "STERAPORETM hollow fiber membrane element and module for Membrane Bio-Reactors" in Egypt from 31th December 2020 to 31th December 2023, pursuant to the Distributorship Agreement of 31th December 2020 executed by the company and our company.

Keitaro YOSHIMURA Senior Manager Membrane Business Section Mitsubishi Chemical Corporation









Events and Appreciation Letters

Events

✓ As one of the market leaders, PuriChem contributed in various Water and Wastewater treatment events, introducing state-of-the-art products and solutions, gaining both national and international recognition .









Appreciation Letters

MARS

Certificate of Appreciation

To Whom It May Concern,

We, at MARS EGYPT would like to express our appreciation for the quality of service PuriChem team has provided to steer the implementation of the new water treatment plants project 2018 (in 6th October Giza-Egypt) to successful completion.

We present you this letter of appreciation as a token of our gratitude over an excellently engineered and commissioned system that achieved Mars aims and objectives while exceeding global quality standards.

PuriChem have demonstrated professionalism, gracious customer service and high level of detail and accountability in project execution in accordance with MARS overall project requirements and according to safety and environment Standards.

We wish you continued success in your endeavors, and looking forward to further cooperation with PuriChem in our upcoming projects.









Appreciation Letters



PEPSICO



شليبناك. للصناعات الغذائية ش.م.م

Appreciation Letter

We would like to express our gratitude to **PuriChem** for being such a co-operative supplier. We sincerely appreciate your responsiveness and the friendly business relationship we have had with your company.

Your staff has consistently made extra efforts to provide technical support and onsite services; assisting us to meet our quality limits in the wastewater treatment plant while reducing energy consumption and carbon footprint at the same time .

Hoping that the same sprit will continue in our future projects and that our association will go a long way creating pillars of success.

Plant Manager:

Performance & Sustainability Manager:

Mohamed Tantawi

Ramy ElMasry

M.Q.: 38 Mosaddak st., Dokki. P.O. Box: 27 El Mohandessin - Egypt Tel.: 37610993 - 37610094 Fax: 37615646 Factories: "6th of October City : 4th Industrial Area

Tel.: 38330778 Fax: 38334970
* Assiut : Industrial Area - Abnoub
Tel.: 088/960080 - 960088 Fax: 088/960066

الإدارة : 15 غير مصدق – النقي ، صب : 17 المهاسيين – مصر عن ۲۰۱۰ - ۱۳۱۱ – ۱۳۱۱ – ۱۳۱۲ طالح الاستانيات الاستانيات الاستانيات المستانيات المستان





Appreciation Letters





BEST SUPPLIER AWARD THIS IS TO CERTIFY THAT



Puri Chem

PURICHEM

IS THE BEST SUPPLIER FOR 2019

FOR

HIGH EFFICIENCY REVERSE OSMOSIS(RO) DEMINERALIZATION SYSTEM

SEPTEMBER, 2019

SHENOUDA YAKOUB M&R LEAD, CTOR ABDALLAH HABIB
MANUFACTURING





Puri Chem
Integrated Water Systems

Thank you