



# W.O.G Group of Companies

Process Technologies & Solution



*Water is life's mater and matrix, mother and medium.*





# W.O.G GROUP

W.O.G Group rank among the top water management solution provider companies of its kind in the world and specializes in multidisciplinary fields such as Water and Wastewater treatment systems, Desalination, Zero Liquid Discharge System, Bio-remediation, Waste to Energy & Solid Waste Management.

W.O.G operates through subsidiaries and branches spread globally. W.O.G specialized in rendering services to the clients comprising planning, design, construction and project management services in the field of engineering projects. W.O.G Group undertakes Turnkey Contracts (LSTK) on Engineering, Procurement, Construction basis.

W.O.G provides knowledge, reference and access to new development taking place world wide for sustained development in the field of water and its resources.

W.O.G's success is based on its energetic core team of professionals world wide, as well as its ability to combine advanced technologies with simple solutions resulting in improvement and benefits for the end-users.

W.O.G has adopted a policy of controlled and steady growth, based on collaboration with leading firms specializing in disciplines complementing the W.O.G's expertise. In parallel, W.O.G has invested considerable resources in intensifying contacts with the clients around the globe and simultaneously are able to offer personalized and friendly services throughout execution of the project to the utmost satisfaction of end-users.

W.O.G enjoys high international reputation for the standard of its services, based on its vast experience and its commitment to quality and excellence in strict conformance with its principles.



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# W.O.G GROUP



## Vision

To be global leader in providing innovative solutions in process technologies, products and services



## Mission

Through commitment to people, system and cutting edge technology, we lead the way in providing solution to manage the water cycle, develop alternate ways to secure water for all, protect water resources, save water and managing the environmental foot prints



## Values

One Global Team	Passion for Excellence
Customer Satisfaction	Good corporate citizen

## APPLICATIONS

**Petrochemicals & Refinery :** With many expansions in plan, we have served this segment with innovative recycling projects & partnered our esteemed customers for their expansion and growth releasing the water stress.

**Oil and Gas :** Gauging the growing demand for treated water, W.O.G GROUP has been investing a great amount of time and energy in catering to the needs of this segment. Execution of many projects in this segment are in progress , mainly for sea water desalination, tertiary generated effluent treatment plants & recycling plants.

**Textile :** Growing consumer demand has suddenly shifted the focus on Global Textile Industries/Market to secure their water needs and stringent discharge norms have resulted in opportunities in the field of Recycling Water Projects.

**F&B industry :** Pure Water is the primary prerequisite for all food & beverage industry. And with regulatory standards in packaged water segment getting tightened with each passing day, there is an increase in demand of treated water. Moreover, the shortage of good quality water has fuelled the growth of this segment.

**Pharma & Bio-technology :** High purity water, confirming to FDA, regulations is necessary for all pharma companies. Aligning ourselves to the evolving needs of the industry, an advanced series of high purity water generation & distribution solution have been developed and offered on turnkey basis with supported documentation and validation.

**Steel & Non-ferrous :** Steel & Non-ferrous is poised to be potential field globally. So the large capacity enhancement plans of all steel and aluminum majors lead to increase in requirement of high quality water to aid the projection process.

**Drinking & Hospitality :** Globalization, growth in economy & better purchase power has created growth in hospitality & tourism industry. The greater health consciousness of the citizens and tourist has created a demand for high quality water requirement.

**Infrastructure :** With growth in infrastructure projects like SEZs, technology parks, Ports, industrial townships, W.O.G GROUP provides potable water to meet quality as per WHO standards with integrated sewage management systems.

**Automobile & Engineering :** With increasing consumer base, this segment has seen a flurry of new projects. They require permanent, temporary or emergency plants to supply demineralized or RO permeate water for surface treatment & also in their paint shops. Treatment of oil-emulsions using membranes or evaporation technique is also offered.

**Power & Co-generation :** Power is the engine of growth for any economy. Consumption of electrical energy is a universally accepted indicator of progress in the agricultural, industrial and commercial sectors, as also of the well being of the people of the State. This automatically opens up a wider market for our projects & services, in the form of feed water for high pressure boilers, cooling tower and for generating steam in cogeneration plant.

**Other Process & Chemical Industry :** Water is the life line for any process & chemical business. With technological advances both in process as well as the delivery mechanism, we are looking forward to strengthen our position in this segment.

### W.O.G's UNIQUE COMPETENCE BASE

- Extensive product portfolio and competence base in water and wastewater treatment.
- One platform to provide world class technologies.
- Serving customers cross-business and cross-region.
- Better use of scarce resources (water, wastewater, energy).
- Minimizing waste through recycling Environment, health, safety and quality among our highest Priorities.





### RAW WATER TREATMENT SYSTEMS

- Pre treatment systems
- Lime soda softening process
- Solid contact clarifiers / clariflocculators
- Plate type / lamella clarifiers / tube settlers
- Rapid sand gravity filters / pressure filters / self cleaning filters / auto valve less gravity filters
- Media filters (activated carbon /iron removal / heavy metal removal / anthracite )
- Disinfection (chlorination / uv / ozone) systems

### Membrane Based Treatment Systems

- Pre treatment units to membrane based treatment
- Ultra filtration treatment systems
- Nano filtration treatment systems
- Reverse osmosis treatment units
- Brackish water / high brackish reverse osmosis systems
- Compact skid mounted desalination units
- Sea water desalination with energy recovery systems
- Waste Water Recycle/Zero Liquid Discharge Systems

### RESIN BASED TREATMENT SYSTEMS

- Water Softeners
- Demineralization Units
- Color / Iron / Boron / Heavy Metal Removal Units
- Mixed Bed Units
- Deionizers
- Electro Dialysis Units



## ANAEROBIC BIOLOGICAL TREATMENT SYSTEMS

- Hybrid Digesters (Medium / High Rate)
- UASB Digesters (Low/High Rate)
- CST Reactors
- Anaerobic Membrane Bio Reactor (AMBR) Systems
- Sludge Digestion

## AEROBIC BIOLOGICAL TREATMENT SYSTEMS

- Conventional Activated Sludge Treatment Process
- Sequential Batch Reactors (SBR)
- Jet Aeration Type Treatment Systems / Rotating Biological Contactors
- Membrane Bio Reactors (MBR)
- Attached Growth / Suspended Growth Biofilm Technologies
- Package Plants (skid/container Mounted)

## BIOGAS UTILIZATION

- Biogas to Hydrogen
- Biogas to Boiler
- Biogas to Ethanol
- Biogas to Methanol
- Biogas to Mixed Alcohols
- Biogas to Natural Gas

## OTHER TECHNOLOGIES

- Oil Removal / Recovery (API / TPI / DAF / IGF / NSF / CF)
- Recycle / Reuse - Tertiary / Polishing Treatment
- Chemical Dosing - Bulk Storage & Handling
- Odor Control & VOC Emission Controls
- Separation & Purification of CO<sub>2</sub>
- Solid Waste - Bio Remediation / Secure Land Fill
- Zero Liquid Discharge – MEE/Solar Ponds
- Solid waste to Electricity/Fertilizer/Natural Gas

TECHNOLOGIES OFFERED BY W.O.G GROUP





## MAJOR SEGMENT CATERED

### OUR PRESENCE IN :

- |                       |                  |
|-----------------------|------------------|
| ❖ OIL & GAS           | ❖ PULP & PAPER   |
| ❖ OIL WELL WASTEWATER | ❖ PLASTICS       |
| ❖ BREWERIES           | ❖ TANNERIES      |
| ❖ SUGAR               | ❖ DISTILLERIES   |
| ❖ YEAST               | ❖ TEXTILES       |
| ❖ FOOD PROCESSING     | ❖ PALM OIL       |
| ❖ BEVERAGE BOTTLING   | ❖ PETROCHEMICALS |
| ❖ FERMENTATION        | ❖ REFINERIES     |
| ❖ PHARMACEUTICALS     | ❖ FMCG           |
| ❖ CHEMICALS           | ❖ POWER          |

### CONSULTANTS ASSOCIATED WITH

- |                  |                    |
|------------------|--------------------|
| ❖ JACOBS         | ❖ BECHTEL          |
| ❖ DESEIN         | ❖ FLOUR DANIEL     |
| ❖ KALTIMEX       | ❖ CHEMTEX          |
| ❖ POYRY          | ❖ UNIDO            |
| ❖ ALSTOM         | ❖ TCE              |
| ❖ MARUBENI       | ❖ NEERI            |
| ❖ TECHNIP        | ❖ EIL              |
| ❖ WARLEY PARSON  | ❖ MITSUBISHI       |
| ❖ CHIYODA        | ❖ TRIPATRA/SAMSUNG |
| ❖ HYUNDAI        | ❖ TOYO             |
| ❖ KEPPEL         | ❖ PUNJ LLOYD       |
| ❖ FOSTER WHEELER | ❖ CTCI             |
| ❖ ABB            | ❖ TWIC             |
| ❖ SAIPEM         | ❖ SPAN             |

# SERVICES OFFERED BY W.O.G GROUP

W.O.G success is based on its energetic and highly motivated team of professionals worldwide. Ability of W.O.G to combine advanced technologies blended with simple solutions provides an improved , efficient yet simple solution to the end-users.

W.O.G's ability to respond efficiently to increasing market demands by , combining both personnel and technical requirements of the market has resulted into the substantial growth of the group in a very short span of time .

W.O.G in house expertise and experience for providing various treatment processes and systems required by different type of water and waste water segments by integrating most modern / efficient simple technologies.

## W.O.G offers following services :

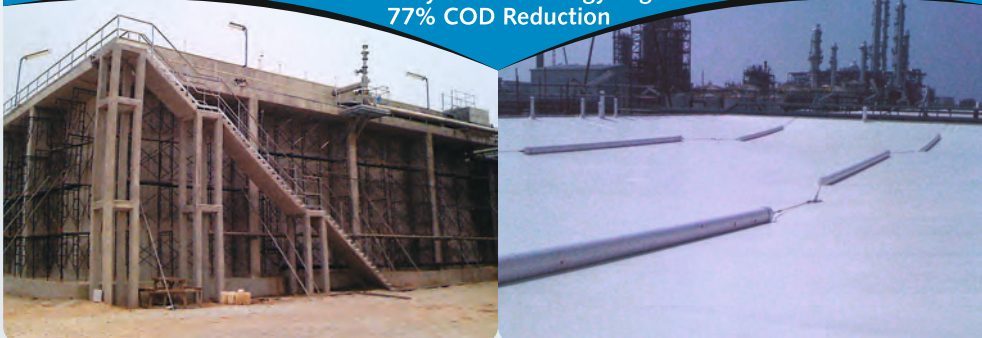
Turnkey project solution for drinking / industrial feed water / municipal and industrial waste water / recycle and reuse of waste water / desalination and ultra pure water treatment:

- ◆ Built, Own, Operate and Transfer (BOOT) Projects
- ◆ Annual Plant Operation & Maintenance (O&M) facilities
- ◆ Feasibility Study/Pollution Control Clearance Support/Water Audit
- ◆ Basic and detailed Engineering
- ◆ Pilot Testing for Treatability Study
- ◆ Plant Maintenance & Upgrade
- ◆ Construction/Construction Supervision
- ◆ Project Monitoring & Control
- ◆ Plant Operator Training for Proper Operation and Safety
- ◆ Consultation and Technical Support



## Key References — W.O.G GROUP

3000 M3/Day (550 GPM) Petrochemical Oily Effluent Treatment Plant with  
Anaerobic Hybrid Technology Digester  
77% COD Reduction



2400 M3/day Turnaround Generated Wastewater Treatment Plant

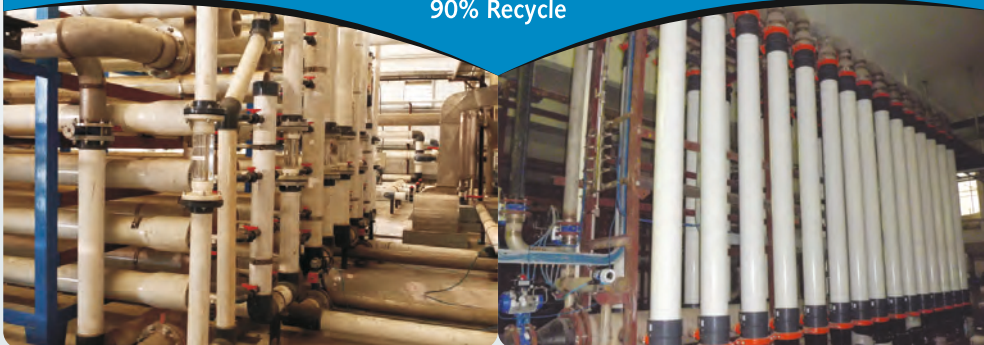


139.2 M3/Day - Water Treatment Plant - Softener Package &  
1440 M3/Day CPI Oil Separator Package  
LOBP-GMP project



## Key References — W.O.G GROUP

5500 M3/Day (1009 GPM) Textile WWTP & Reuse based on MBR/RO Technology  
90% Recycle



4500 M3/Day (826 GPM) Textile Wastewater Treatment Plant



1800 M3/day – Effluent Treatment Plant & 2273 M3/Day  
MBR based Effluent Treatment Plant





## Key References — W.O.G GROUP

350 M3/Day (64 GPM) Wastewater Treatment Plant



1800 M3/Day (330 GPM) Brewery Effluent Recycling/Reuse Plant  
75% Recycle/Reuse



1500 M3/day Waste Water Treatment Plant based on Anaerobic Hybrid Reactor (AHR) Technology and Sequential Batch Reactor (SBR)

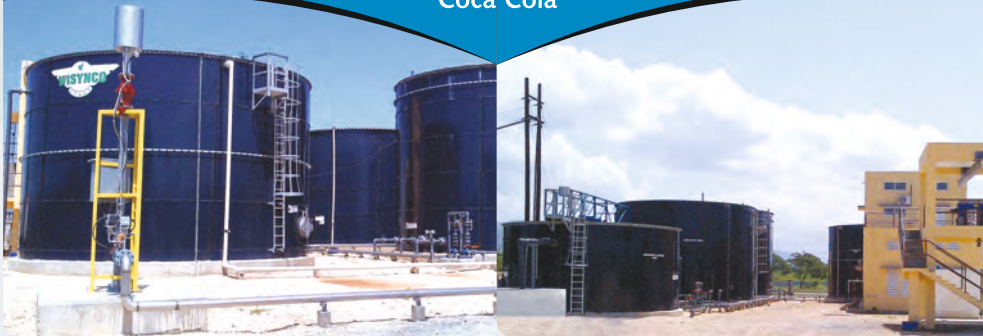


## Key References —W.O.G GROUP

25000 M3/Day (4586 GPM) Wastewater Recycle/Reuse Plant



450 M3/ Day (83 GPM) Beverage Effluent Treatment Plant  
Coca Cola



1000 M3/Day MBR Based Palm Oil Effluent Treatment Plant





# W.O.G GROUP

## Testimonials from our esteemed Clients:

*M/s. W.O.G Technologies were assigned the responsibility of Design, satisfactory performed for Design, Engineering, Construction, Manufacture, Inspection, Testing, Supply and Erection & Commissioning of 3000 m3/day Anaerobic Hybrid Digester Package and they have satisfactorily completed the assigned task in accordance with the provision of the contract.*

Indorama Petrochem Ltd. – Thailand

*M/s W.O.G Technologies were assigned the job for Waste Water Treatment Plant for the capacity of 650m3/day and the project is completed and performing satisfactorily since commissioned.*

Empee Distillery, Chennai, India

*We are pleased to work with W.O.G and their professional team are capable & competitive to execute large projects like ours of 25000 m3/day sewage treated water recycling plant to produce tap water quality with 30 years O&M on the bases of BOOT model.*

Patong Municipality, Thailand

*WOG Technologies has executed and completed the work of 3 Nos. Biogas Digesters (47 M dia each) for Effluent Treatment Plant with membrane covers (Capacity : 1500 M3/day Molasses based spent wash). The plant performance is fully satisfactory since it's commissioning.*

Matol Distillery Limited (A Group of Matiari Sugar) - Pakistan

*WOG Technologies has installed 2 x Glass Fused to Steel Tanks for Waste Water Treatment plant, the tanks sizes were 9.5 m dia and 20 m height. We confirm that above said scope as defined within our purchase order has been completed at satisfactory level.*

Carotino SDN BHD. - Malaysia

*WOG Technologies has executed & completed the project – Design, Engineering, Install, Commission, Operate & Maintain Turnaround Generated Wastewater Treatment Plant (mobile) for treatment of Wastewater Generated during EQUATE Turnaround 2017 from Ethylene and Aromatic Plant's waste water (around 30,000 m3) and installation and removal of Floating Cover for storing waste water (17,500 m3) at our facility in Kuwait from Sep 2017 to Dec 2017. The whole project was done in less than 6 months. It was a record clean up by WOG to enable EQUATE of this high volume of 30,000 m3 treated waste water to send to the Gulf meeting the EPA Limits.*

Equate Petrochemical Co. (K.S.C.C.) - Kuwait

*M/s W.O.G Technologies were assigned the responsibility of Design, Engineering, Construction, Supply, Erection & Commissioning of Effluent Treatment Plant of 1800 m3/day followed by Recycle/Reuse comprising UF-RO and the project was completed and is performing satisfactorily since commissioned.*

United Breweries Ltd. – Karnatka, India

*We were pleased to work with W.O.G Technologies and observed their Professionals highly qualified for installing Softening Plant.*

American & Efird (Bangladesh) Ltd., Bangladesh

*M/s W.O.G Technologies were assigned the responsibility for Supply, Erection and commissioning works of new module of 2350 m3/day CETP and they have satisfactorily accomplished the assigned work.*

IIS (India), Super Tannery Ltd. - UP, India

*WOG Technologies has successfully commissioned MBR Based Waste Water Treatment Plant and Reverse Osmosis Based Recycle/Reuse Plant of Capacity 5500 m3/day including 2 years Operation & Maintenance of the Plant. We are pleased to work with WOG Technologies & found their personnel well qualified & Professional for such works. We confirm our satisfaction with respect to the Engineering, Project Management & Excellent After Sales Services offered by WOG Group.*

Yunus Textile Mills Ltd. - Karachi, Pakistan

*WOG Technologies has successfully commissioned the project awarded by IOCL Mathura for Drinking Water Treatment Plant (DWTP) of capacity 240 m3/hr, including O&M for one year at Mathura Refinery Township.*

Indian Oil Corporation Ltd. Mathura Refinery

*WOG Technologies has designed, engineered, supplied, erected and installed the wastewater treatment plant based on Centrifuge and Anaerobic treatment of wastewater at our Himalayan Distillery, Nepal. The treatment system is designed to remove organic pollutants that contribute to BOD and COD on a consistent basis coming from the distillery unit. The capacity of the treatment is 450 m3/day. The technical support to sustain installation of the plant from WOG is outstanding. It is our pleasure to work with WOG, we are satisfied with respect to the engineering, project management & excellence after sales services offered by WOG Group.*

Himalayan Distillery Limited. – Nepal

*WOG Technologies has completed the Lumpsum Turnkey ETP Augmentation works at Ravva (Nameplate capacity : 3180 m3/day. All the above mentioned works have been completed satisfactorily by WOG Technologies.*

Cairn India Limited – Andhra Pradesh

# W.O.G GROUP

QUALITY RESEARCH ORGANIZATION  
ISO 9001 : 2015 & ISO 45001 : 2018

## CERTIFICATE OF REGISTRATION



UK CERTIFICATION AND ASSESSMENT LTD.

This is to certify that the  
Quality Management System of

**WOG TECHNOLOGIES PRIVATE LIMITED**

at

3<sup>rd</sup> FLOOR, PLOT NO-406, FORTUNE TOWER-1, UDYOG VIHAR,  
GURUGRAM, HARYANA, 122016

UKASCERT certified that the Quality management system of the above organization has been assessed  
and found to be in accordance with the requirements of the management system detailed below:

**ISO 9001:2015**

for the following scope:

PROJECT MANAGEMENT INCLUDING DESIGN, ENGINEERING, MARKETING & SUPPLY OF  
MACHINERIES, CONSTRUCTION FOR VARIOUS KIND OF PROJECTS LIKE DESALINATION  
/RO/EFFLUENT /BIOGAS / WASTE WATER/FSTP/ SEWAGE TREATMENT PLANTS / WASTE  
TO ENERGY SYSTEMS, GAS SCRUBBING & PALM/EDIBLE OIL REFINERY, BULK STORAGE  
TANKAGES & AUTOMATION ON TURNKEY BASIS

Validity of this Certificate can be verified at <http://www.ukascert.co.uk/verify.aspx>

Certificate Number: Q-287001122023  
Issue Date: 01<sup>st</sup> December 2023  
Valid Until: 30<sup>th</sup> November 2026  
1<sup>st</sup> Surveillance on or before: 30<sup>th</sup> November 2024  
2<sup>nd</sup> Surveillance on or before: 30<sup>th</sup> November 2025

UK CERTIFICATION AND ASSESSMENT LTD.

*Michael*  
Auth. Signatory



UK Certification and Assessment Ltd  
Regd. Off: 71-75 Shelton Street London Greater London WC2H 9JQ UNITED KINGDOM  
Website: [www.ukascert.co.uk](http://www.ukascert.co.uk), Mail: [info@ukascert.co.uk](mailto:info@ukascert.co.uk) Company No. 12660984  
(In case of surveillance audit is not allowed to be conducted: this certificate shall be suspended/withdrawn).  
This certificate is the property of UK Certification and Assessment Ltd and shall be returned immediately  
on request.

UKASCERT UKASCERT UKASCERT

## CERTIFICATE OF REGISTRATION



UK CERTIFICATION AND ASSESSMENT LTD.

This is to certify that the  
Occupational Health and Safety Management Systems of

**WOG TECHNOLOGIES PRIVATE LIMITED**

at

3<sup>rd</sup> FLOOR, PLOT NO-406, FORTUNE TOWER-1, UDYOG VIHAR,  
GURUGRAM, HARYANA, 122016

UKASCERT certified that the management system of the above organization has been assessed  
and found to be in accordance with the requirements of the management system detailed below:

**ISO 45001:2018**

for the following scope:

PROJECT MANAGEMENT INCLUDING DESIGN, ENGINEERING, MARKETING & SUPPLY OF  
MACHINERIES, CONSTRUCTION FOR VARIOUS KIND OF PROJECTS LIKE DESALINATION  
/RO/EFFLUENT /BIOGAS / WASTE WATER/FSTP/ SEWAGE TREATMENT PLANTS / WASTE  
TO ENERGY SYSTEMS, GAS SCRUBBING & PALM/EDIBLE OIL REFINERY, BULK STORAGE  
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# W.O.G GROUP

## RECOGNITIONS



Dear Sunil,

On behalf of Frost & Sullivan, we are pleased to announce that W.O.G. Technologies is the recipient of the **2018 Thailand Water Infrastructure Growth Excellence Leadership Award**.



 SINGAPORE

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