Sparkle Clean Tech Pvt. Ltd.

Always Moving Forward…..

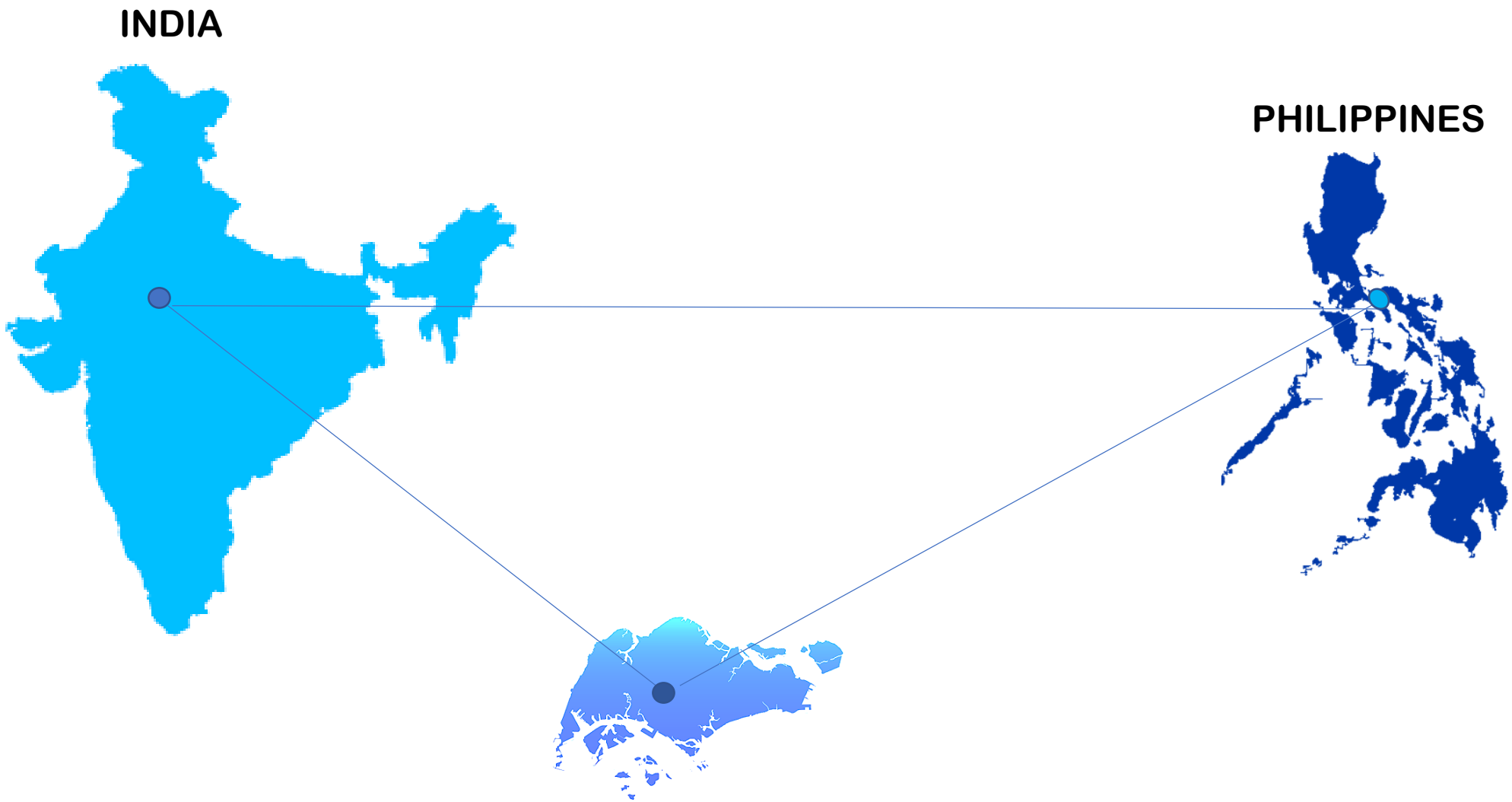
Corporate Presentation




Sparkle Value Creation Journey

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Sparkle Well Positioned For Opportunity



SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Sparkle Leveraging On World Class Service

We invest time in identifying the root cause of the problem and give perfect solution.

We believe in transparent and ethical work that earns long term results.

We are meticulous in our approach, and constantly explore new technology which are cost effective and easy to maintain its operations.

We ensure to comply with regulatory, compliance and government affairs.

We are continuously striving for better environment to the forthcoming generations.

ISO Certificate

CERTIFICATE

AGQR Certifications Private Limited

Quality Management System of:

Sparkle Clean Tech Pvt. Ltd.,

Location 1: 89, Gautam Complex, Sector II CBD Belapur,
Navi Mumbai-400 614
Location 2: Survey No. 2,3,4,5 At Village Sajgoan,
Taluka Khalapur, District Raigad,
Maharashtra, India

Has been assessed and found to meet the registration requirements of:

ISO 9001:2015

The certificate is valid for the following scope of operation:

Design, Manufacturing, Supply, Installation, Commissioning and Operation & Maintenance of Water Treatment Products

Certificate Registration No. : 17I0016 | Approval Date : 19.09.2017

Date of 1st Surveillance Due : 19.08.2018 | Issue no. : 01

Date of 2nd Surveillance Due: 19.08.2019 | Valid Until : 19.09.2020

AGQR Certifications Private Limited

Address: A 6, 2nd Floor, A.P. Abhinava, Kavimani Salai, Mogappair West, Chennai-600 037.
Ph: 044 2653 5631 / www.agqrcertifications.com

Accredited By: Accreditation Services for Certification Bodies (Europe) Ltd, 6 Ferris Place, Bournemouth, Dorset, BH 8 0AU, UK

This Certificate is valid for three years subject to the successful completion of two annual surveillance audits.
Please Check / Re-check the validity at the above mentioned CB / Accreditation Board Address or Website

This Certificate remains the proprietory of AGQR Certifications Private Limited and shall be returned immediately upon request. This issue of the certificate does not bestow any legal Right

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Sparkle, Provide Complete & Comprehensive Water Management Solutions

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Sectors We Serve

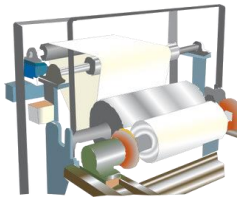
Steel Industry

Multiplexes

Hospitality

Real Estate

Oil & Energy



Paper Mill

Automobile

Pharmaceutical

Shipping

Textile

Agriculture

Educational Institutes

Municipal

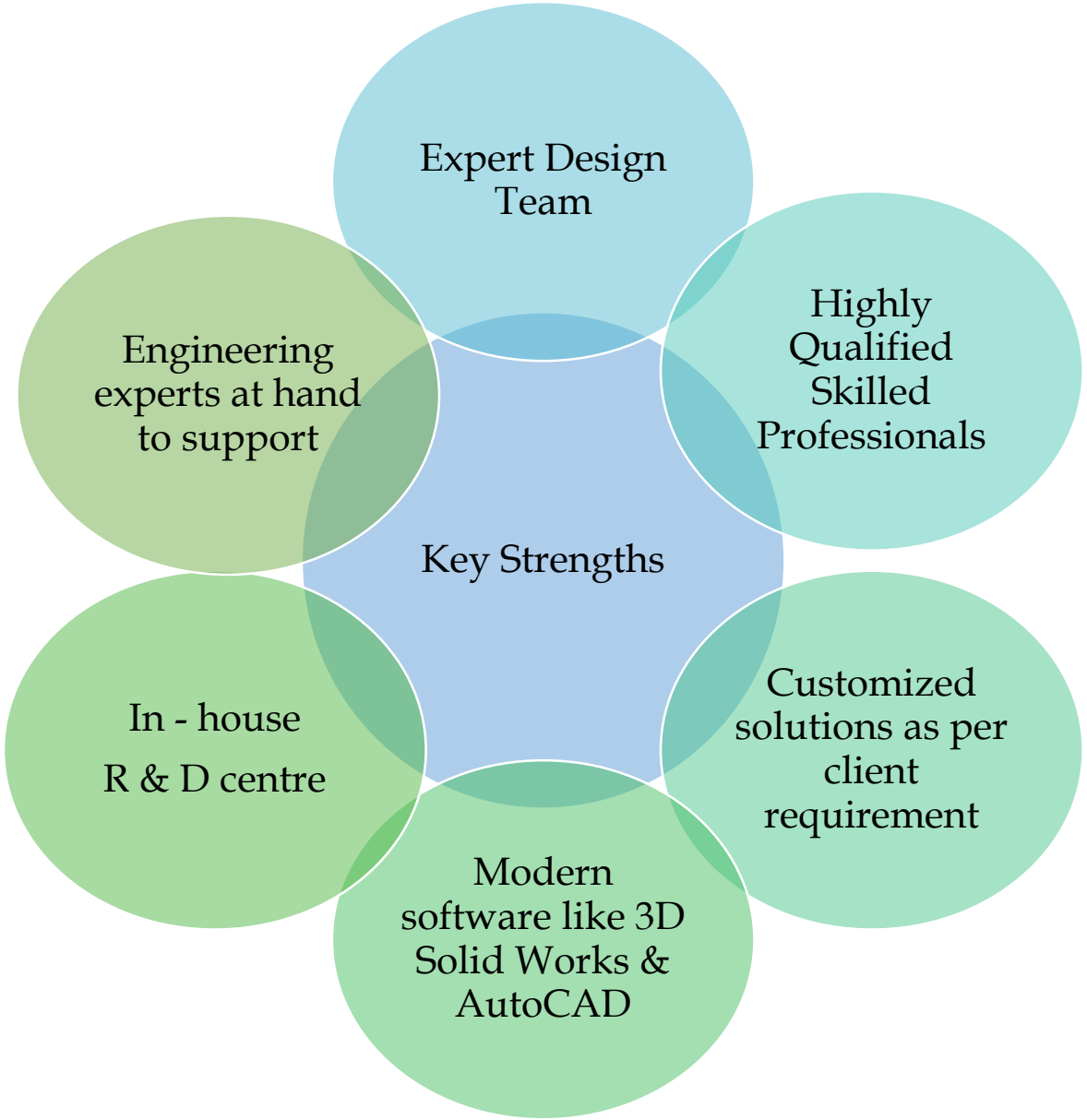
Civil Aviation

Power

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

and many more.....

Sparkle Synergistic Team The Winning Formula

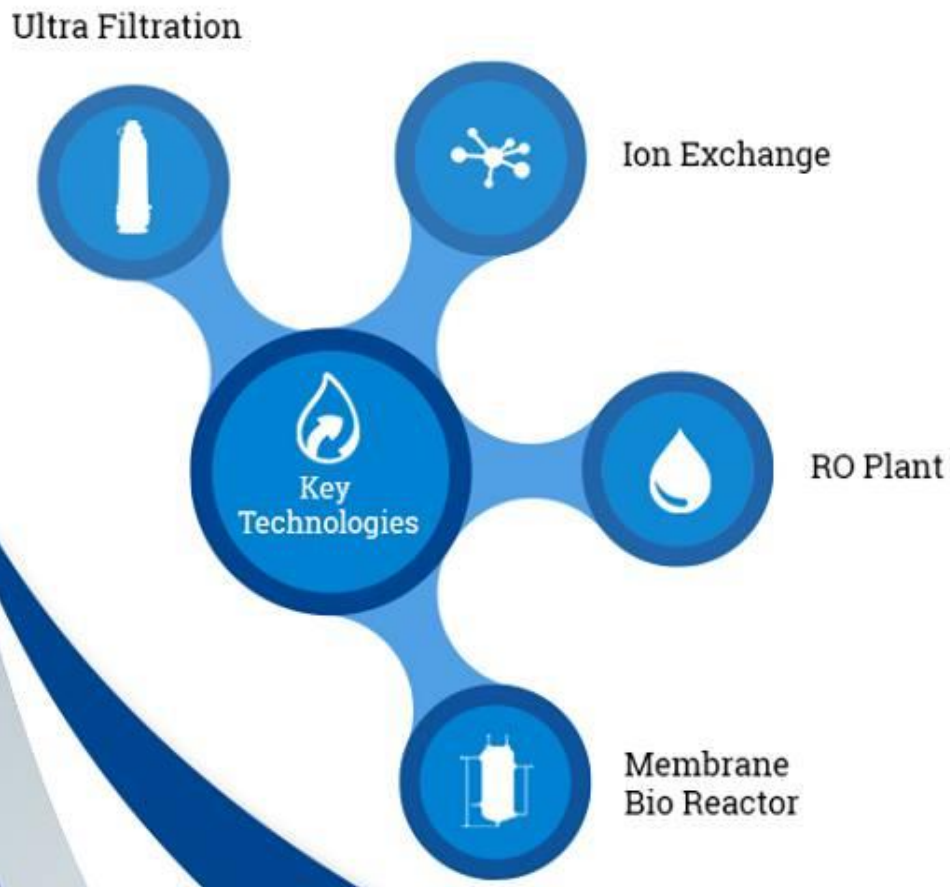


SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Our Key Technologies

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

With our in-house research capabilities, we continuously invest in **new technologies**. Our dedication to pursue breakthrough technologies and commitment to innovative ideas is a key enabler of our strategic intent of becoming the India's leading water treatment company.



SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

View More

Product Range

Ultra Filtration

Reverse Osmosis

De - Mineralization Plant

Submerged MBR

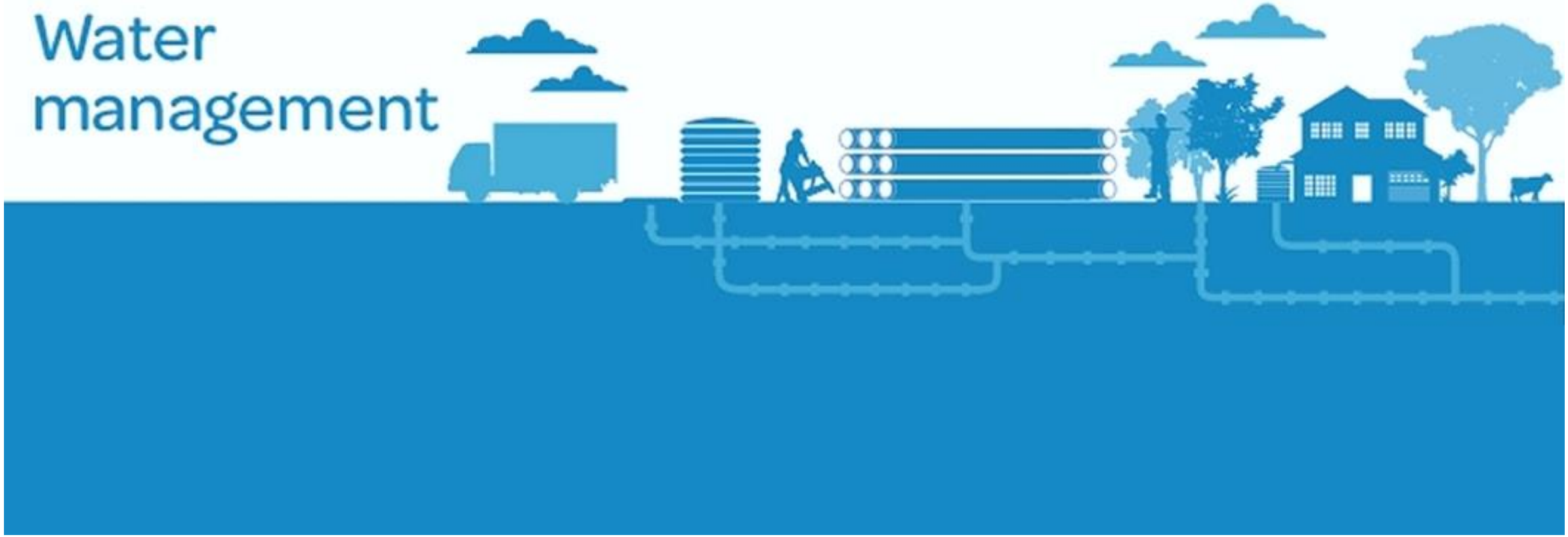
Nut Shell Filter

Inducted Gas Flotation

View More

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Water management



SPARKLE CLEAN TECH PVT. LTD.

Always moving forward...

Sparkle Provides Complete & Comprehensive Water Management Solutions

Water-purification solutions for treating raw / fresh water bodies and sources, so as to make it easily available for Industrial, Domestic and other essential utilities.

For the removal of physical impurities such as suspended particles and turbidity, stand alone filtration or combination of flocculation, clarification, depth filtration and membrane filtration is applied.

For contaminations caused by malevolent bacteria, viruses and other biological impurities. Sparkle provides effective solutions by providing disinfection methods using chlorination, activated carbon and membrane type separation.

For inorganic dissolved impurities, Sparkle provides solutions like Resin Based Softening and Ion Exchange.

Sparkle also provides Membrane Based Nanofiltration and Reverse Osmosis techniques.

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Competitive Edge In Water Treatment Market

- Complete Skid Mounted plug and play units for UF & RO systems
- Containerized, Portable UF & RO Units to treat stringent quality water
- Sea water Brackish water & industrial grade RO membranes
- PAN, PES, PVDF & Ceramic UF Membrane
- Auto operations with minimum Manual Interventions.
- Multiple Options for Filtration technology
- Low Pressurized Systems to reduced power consumptions

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Case Study - Water Management Solutions

Reverse Osmosis + Mixed Bed Ion Exchange Treatment Plant

Agriculture

Educational Institutes

Municipal

Community Parks

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Challenge:

For pre-commissioning of power plant, there was a huge requirement of very high purity water. The customer wanted a solution of a plant which can be mobile as they could not commission the main DM plant.

Solution Offered:

The challenge was to give a plant which can be easily transported on a trailer. The plant of a 40 m3 /hr capacity had to be accommodated in a very compact space. Raw water pump discharge was given to an automatic disc filter. The filtered water was fed to RO by a high-pressure pump. The permeate of the RO was then fed to the degasser for removal of weak acids. The degassed water was treated in mixed bed to achieve a quality of less than 1 µS of DM water and ph of 6.5 to 7.2.

Result Achieved:

- ✓ Flow – 40 m3/hr
- ✓ TDS – less than 1
- ✓ Ph – 6.5 to 7.2

Benefits to Client:

- ✓ A mobile plant for ease in transportation.
- ✓ High purity water being used for pre - commissioning of power plant.
- ✓ The plant was moved to different locations where the pre - commissioning was done.

WASTEWATER MANAGEMENT

SPARKLE CLEAN TECH PVT. LTD.

Always moving forward...

Sparkle Provide Potent Solution For Waste Water Management

Waste-water can be classified into two types: Sewage and Effluent.

For any Sewage, the major contaminants are biological-oxygen- demand, chemical-oxygen-demand and suspended impurities.

For removing suspended impurities, Sparkle provides primary settling with the equipment such as clarifiers and tube/ plate settlers .

For treating waste water, both the processes : the suspended growth process and the attached growth process are employed.

Sparkle also provides the combination - membrane bioreactors.

Sparkle waste water management solution offers value added services to its customers by supplying water of superior quality and large quantity.

Using innovative techniques, Sparkle enhances process efficiency and offers industry specific solutions for customized requirements.

The various processes involved in treating the effluent are industry-specific and therefore, customized accordingly.

Sparkle undertakes a systematic study of the effluent in its effectively designed Laboratory and conducts pilot trials before suggesting the solution. The solution provided is the combination of specific, biological and physical treatment.

Competitive Edge In Waste Water Treatment Market

- Package Systems with MS and FRP fabrication
- Modified MBR process with multiple type of membranes to optimize efficiency & performance, longer membrane life, low power consumption, easier for operations & maintenance
- Various options in treatment technologies considering the effluent source, quality & quantity
- UF system as polishing treatment

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Case Study - Waste Water Management

Sewage Treatment Plant

Educational Institutes

Multiplexes

Hospitality

Real Estate

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Challenge:

The requirement of the modern buildings regarding the sewage treatment unit is, required with smallest possible footprint, suitable to fit in locations such as basement, parking slot which generally has height restrictions, requires no odor or noise problems. The sewage treatment plant is desired to provide highest degree of treatment to sewage so that it can be reused at various applications such as gardening, flushing, car washing etc.

Solution Offered:

Sparkle offer customized package sewage treatment plants. The prefabricated Sewage Treatment Plant units provide solution to small and medium capacity flow requirements. The prefabricated Sewage Treatment Plant is available in configurations such as Mild steel tank, Mild steel tanks with anticorrosive Fiberglass Reinforced Plastic lining or tanks made up of composite material Fiberglass Reinforced Plastic.

Our package units are based on state of are treatment processes such as Aerobic Attached growth fixed film reactor (Submerged Aerated Fix Filmed process), Moving Bed Bio Reactor which uses floating type media. To achieve highest degree of treatment and where the required treated water quality is absolutely critical we provide solutions with our MBR ultrapac treatment which is based on ultra-filtration membrane filtration process.

The treatment stages in our package systems are generally primary treatment, Anoxic process for removal of nitrogen, Biological process with fixed film or floating media, aeration with modern silent jet aerators followed by tertiary filtration. Sparkle also provides option of containerized package sewage treatment plants.

Result Achieved:

- ✓ The package SEWAGE TREATMENT PLANT units manufactured by sparkle are delivering optimum results at various places in India
- ✓ The treated water is suitable to meet the norms at which it can be directly reused
- ✓ The compact unit with auto operation does not require manual intervention and providing the trouble free solution to our client.

Benefits to Client:

- ✓ Small footprint
- ✓ Easy installation no site work required
- ✓ Low sludge production, highest degree treatment
- ✓ Auto operation and does not requires specially trained skilled operators to operate the unit
- ✓ Low maintenance and easy operation
- ✓ Low noise, no odor, no nuisance
- ✓ Value addition service to customers
- ✓ Consistent quality of treated effluent which is being reused
- ✓ Short delivery time

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Waste Water Treatment for Oil & Gas

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Sparkle Has Been Instrumental In Tackling The Challenge Of Waste Water Treatment For Oil & Gas

Sparkle has been instrumental in tackling the challenge of converting oil-rich effluent to the state of making water reinjectable.

Specific applications like removal of oil from oil rich effluent is done by Sparkle by using technologies like induced gas flotation, dissolved air flotation, Walnut shell filters and special type of ultrafiltration. This is widely used for the effluent of oil fields.

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Competitive Edge In Waste Water Treatment For Oil & Gas

- One stop solution for all the packages: IGF, DAF, NSF
- Good rapport with process licensor
- Reference Installation base

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Case Study – Waste Water Treatment For Oil & Gas

Effluent Treatment Plant

Oil & Energy

Shipping

Power

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Challenge:

The client was faced with a tough problem of disposal of oily water mixture left after oil extraction. Disposal on to surface was leading to infertility and associated soil related problems

Solution Offered:

The oily water mixture coming out of the heater treater was to be given a residence time of 72 hrs. This water was then to be processed in a Tilted Plate Interceptor followed – Induced Gas Floatation followed by Walnut Shell Filter and finally in an Ultra-Filtration system.

The outlet from the ETP is processed in 4 stage process as given above with each stage catering to step reduction of the impurity load like course Suspended impurities, Oil skimming, fine impurities, residual oil and final polishing is carried out. The final ultra filtered quality is less than 10 ppm having particle size ≤ 2 microns.

Result Achieved:

The treated water is

- ✓ Flow – 0.6 MLD, 2 MLD, 5 MLD
- ✓ Free Oil < 10 parts per million
- ✓ Turbidity < 3 Nephlometric Turbidity Units
- ✓ Total Suspended Solids < 10 parts per million

Benefits to Client:

- ✓ Treated water well within the safe limits as prescribed in the reinjection water standards
- ✓ Reduction in volumes and associated fresh water costs
- ✓ Maintenance of underground pressures for better yield
- ✓ Higher flux because of better membrane selection and thus lower capital costs
- ✓ Superior membrane quality leading to lower operating cost of the UF system
- ✓ Fully automatic UF system with zero manual intervention
- ✓ Pollution Control Board and Government clearances
- ✓ Consistent water quality with high degree of purity
- ✓ Small footprint

Partial List Of Projects In India

Water

- ✓ Drinking water - 3000 m3 / day
- ✓ Fluoride Removal Drinking Water – 30 Villages

Zero Liquid Discharge

Automobile

- ✓ Zero Liquid Discharge – 400 m3 / day

Steel

- ✓ Zero Liquid Discharge - 1300 m3 / day

Paper

- ✓ Zero Liquid Discharge – 1000 m3 / day

Waste Water

- ✓ STP – MBBR – 450 m3 / day
- ✓ STP – MBBR – 850 m3 / day
- ✓ Containerized STP – MBBR – 1200 m3 / day

Waste Water Recycle

- ✓ Chemical - RO – 1200 m3 / day
- ✓ Chemical – MBR 400 m3 / day
- ✓ Chemical Separation – 200 m3 / day
- ✓ Chemical Separation - 240 m3 / day

Oil & Gas

- ✓ SBR – 1500 m3 / day
- ✓ Nut Shell Filter + Ultrafiltration - 5000 m3 / day
- ✓ Nut Shell Filter + Ultrafiltration - 2000 m3 / day
- ✓ Nut Shell Filter + Ultrafiltration – 600 m3 / day
- ✓ Nut Shell Filter - 1700 m3 / day
- ✓ Nut Shell Filter – 1500 m3 / day
- ✓ Nut Shell Filter - 900 m3 / day
- ✓ Ultrafiltration – 5000 m3 / day
- ✓ Ultrafiltration – 2000 m3 / day
- ✓ Ultrafiltration – 3000 m3 / day
- ✓ Ultrafiltration – 600 m3 / day

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Partial List Of International Projects

Water

- **Philippines**

✓ Containerized Desalination Plant - 7,000 m3/day
✓ Drinking Water – 2160 m3 / day
✓ Drinking Water – 1900 m3 /day

- **USA**

✓ High Purity Water – 200 m3 / day

Waste Water

- **USA**

✓ Effluent Recycling- 400 m3 / day

- **Philippines**

✓ Containerized ETP – 20 m3 / day
✓ Containerized STP - MBBR – 160 m3 / day

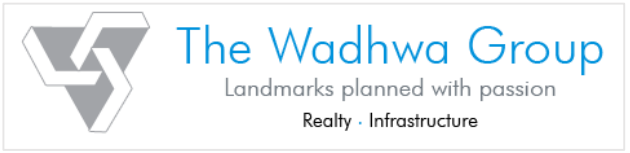
Oil & Gas

- **Qatar**

✓ ETP – 25 m3 / day

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Partial Client List



List Of Consultants

➢ Mott MacDonald	➢ TCE
➢ Jacobs Engineering	➢ Tata Consulting Engineers
➢ Fichtner India	➢ RSP design consultants
➢ MEP Consulting Engineering	➢ Econ Consultants
➢ Electromech Consultants	➢ Potential Samac Consultant
➢ Aquapure Consultants	➢ Epsilon Design Consultancy
➢ Clancy Golbal	➢ KP Consultants
➢ Langdon & Seah Consulting India Pvt Ltd	➢ Pell Frischmann Consulting Engineers
➢ GEM Consultant	➢ Structwel Constructions
➢ Gleeds Holooman Consultants	➢ Technip
➢ AECOM consultants	➢ Hasconing Consulting
➢ Eskeym Consultants	➢ Sheth Consultant

Follow Us On Facebook & Linkedin

Designed and supplied Reverse Osmosis based drinking water plant of 2.1 MLD capacity for water district in Philippines.

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...

Manufacturing Unit

- Sparkle Clean Tech has established a modern manufacturing, testing & research facility at Sajgaon Khopoli, which is easily accessible by road and by train.
- The facility is located on a 14-acre plot with state of art ultra modern manufacturing systems.
- The factory has in house testing Laboratory, R&D centre QA/QC unit.
- The Factory is equipped with modern equipments & Machineries to supply high quality products to the clients at the shortest time using effective methods for efficient production.

Thank You

India
Sparkle Clean Tech Pvt. Ltd.
89 Gautam Complex,
Sector - 11, C.B.D Belapur,
Navi Mumbai - 400614
Tel: +91-22-4061-9000
Fax: +91-22-27563061

Singapore
Sparkle Clean Tech Pte Ltd.
13-01, City House,
36 Robinson Road,
Singapore - 068877

Tel: +65-65801800

Philippines
Sparkle Clean Tech Pvt. Ltd.

Under Registration

Tel: +91-22-4061-9000

India - Manufacturing
Sparkle Clean Tech Pvt. Ltd.
#Co Subhash Silk Mills Ltd, Khopoli Pen Highway, Sajgaon - 410203

Tel: +91-91587 70808

Contact Us: info@sparklecleantech.com

Visit Us: www.sparklecleantech.com

SPARKLE CLEAN TECH PVT. LTD.
Always moving forward...