



MaRS Planning & Engineering Services Private Limited

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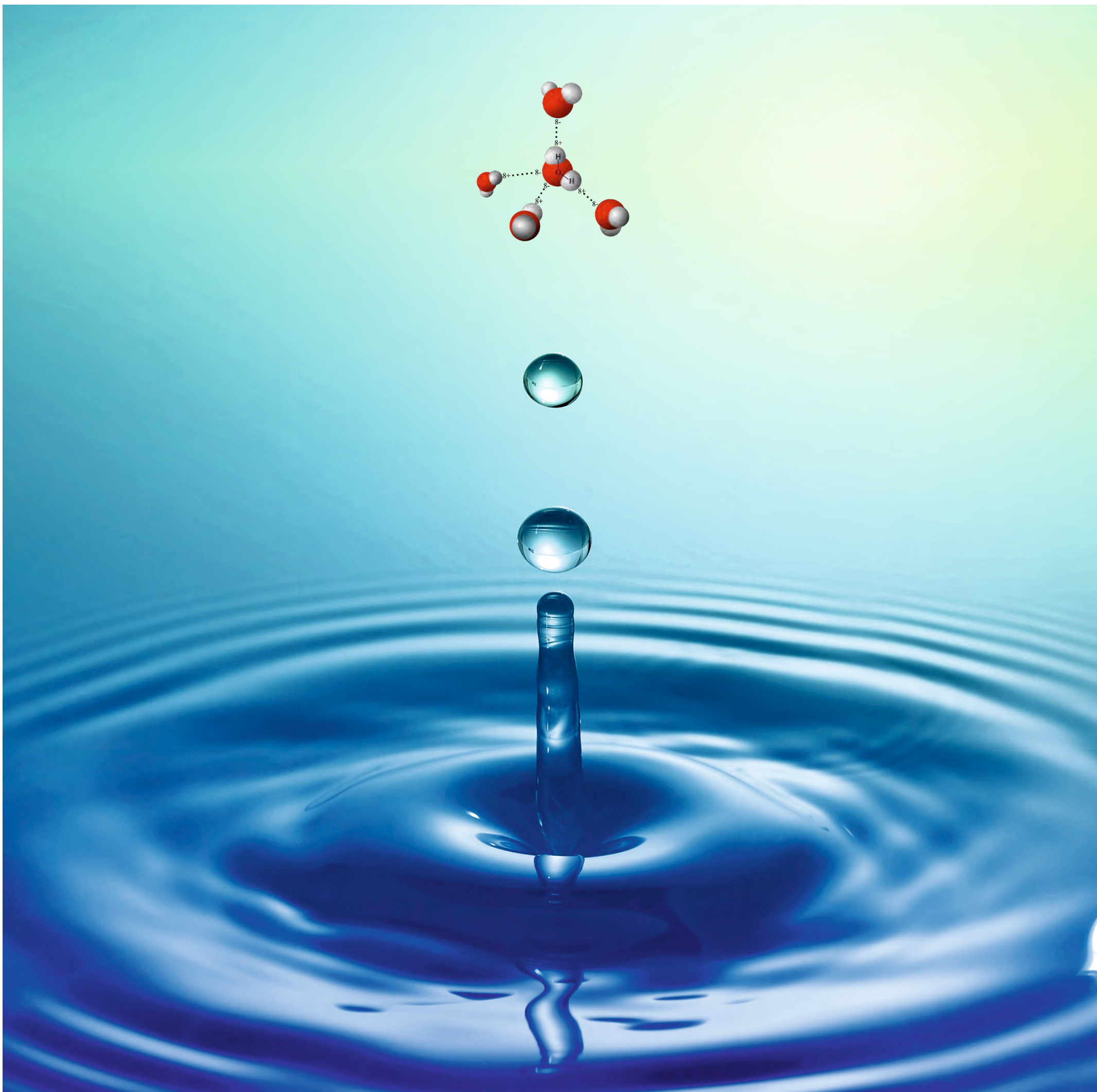
“making water sustainable”





—| “water makes **life** on earth possible”

MaRS has wide range of technology and to treat water and waste water to its pure quality, may it be by primary, secondary or tertiary treatment. The end product after complete technology offers ZLD approach which becomes vital and utmost regulatory requirement in India and abroad. MaRS is also associated with many technology providers from Canada, UK and other part of Globe.



Water...

The total quantity of fresh water available on the planet is constant. The concept of water rarity is meaningless except in a local or regional context and depends on the relation between the variable availability of resources (due to natural or climatic causes) and changes to quantities drawn off.)

There are three possible types of actions to satisfy increasing needs resulting from urban demography; firstly reduce individual and collective waste, secondly accelerate the natural resource renewal cycle and thirdly "create" new resources by desalination and recycling of previously treated waste water.

Population growth and urban sprawl have made sustainable management of water resources a global challenge: fresh water is scarce in some countries and, in many cases, resources need to be protected.

MaRS Water & Wastewater specializes in managing potable water resources. MaRS also specializes in treating wastewater, designing & executing supply network.



Water & Waste Water

About MaRS

MaRS Group delivers world-class design, engineering & consultation services in infrastructure sector. With meaningful utilization of resources, new generation equipments and innovative techniques, we achieve new milestones with every endeavour.

MaRS is responsible for landmark projects that have helped people at large. Surging ahead with presence in multiple fractions of infrastructure sector and involvement in revolutionary projects, we are creating opportunities for everyone.

MaRS Group has a strong commitment towards the safety of the people it interacts and has dealings with and, hence, we take extreme precaution with every piece of infrastructure we involve. We believe in possibilities.

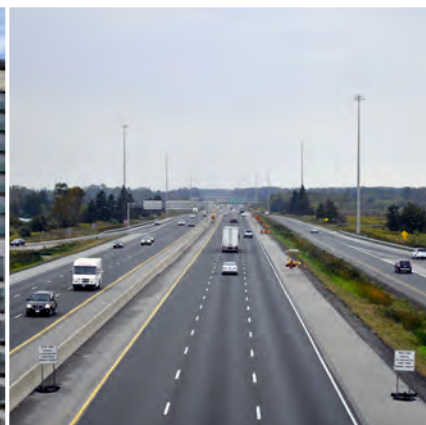
Every MaRS initiative hopes to empower the lives of the people connected to it.

“The progress of our people powers the progress of our Organization.”

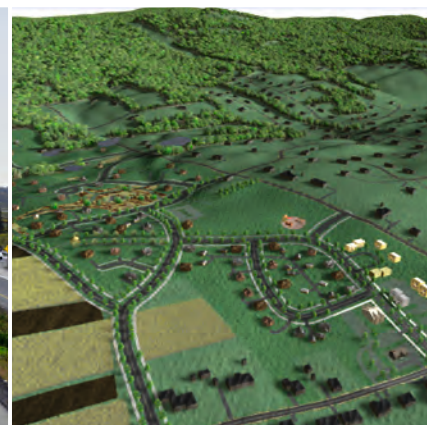
Every accomplishment becomes a foundation for us to do better, to dream bigger, and create a better future. Our responsibility, as industry stalwart, drives us to be bold and embrace tougher challenges....



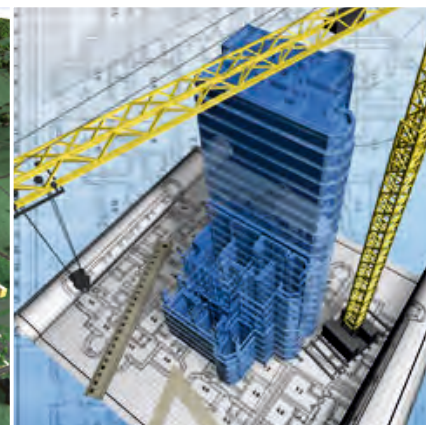
Buildings & Industries



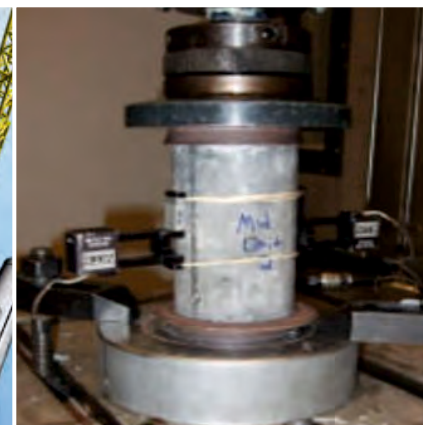
Roads & Transportation



GIS Urban & Regional Planning



BIM



Testing & Investigations



Water & Waste Water

MaRS provide water solutions across the whole water spectrum, from resource management and abstraction to treatment and reuse. As populations grow, climate changes disrupt traditional water catchment processes, and existing natural potable water resources decline, our society will face the increasing challenge of water scarcity. Solving this challenge requires a multitude of integrated solutions ranging from demand management, loss prevention, reuse, desalination and modified ground and surface water extraction techniques.

Our professionals have the skill necessary to undertake planning, concept and detailed design, project management, commissioning and handover, operation and maintenance of projects ranging from smaller plants to larger projects and programs, utilizing a wide range of technologies.

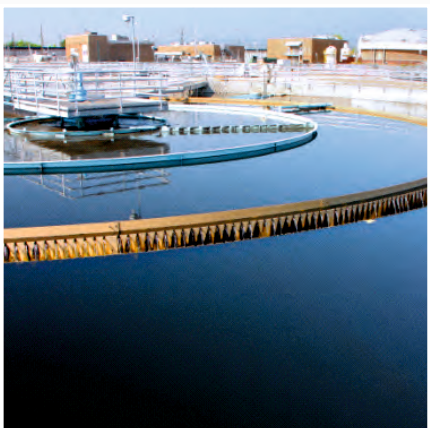
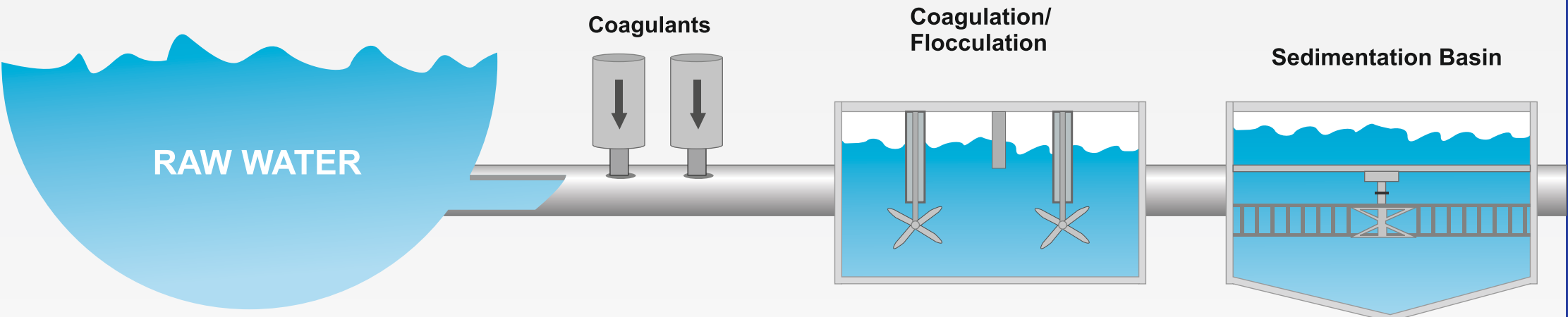
Spectrum of Services:

- Pre-treatment
- Waste water & Sludge Treatment
- Water Purification Core Technology

We provide services for:

Municipal water and wastewater, including work for both public sector organizations and private sector.

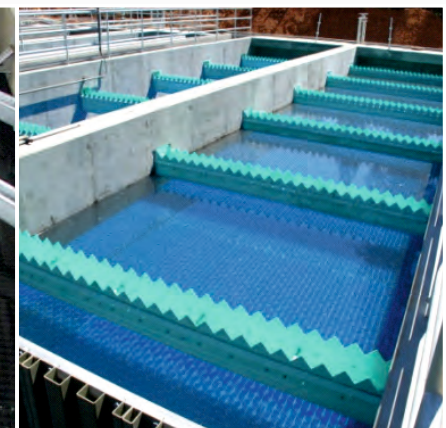
Pretreatment System Overview



Clarifier



Plate Settler



Tube Settler



HRSC Clarifier



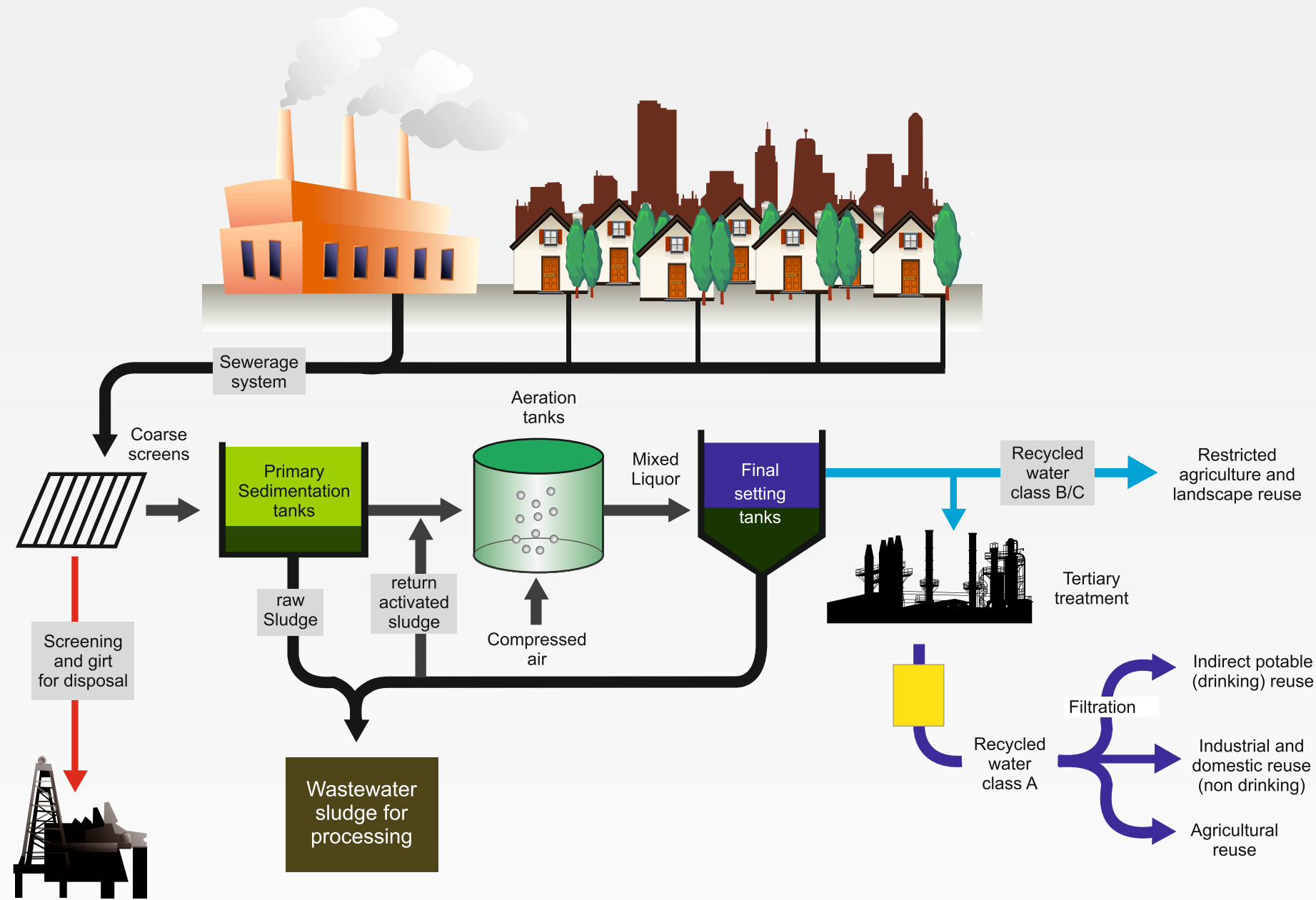
Lamella Clarifier

Pretreatment

MaRS has considerable knowledge and experience in the preparation of water for all purposes. This includes industrial, process, and potable water preparation. We can identify the most cost effective water preparation systems that would supply the quality of water required, they also can optimize their operation and provide trouble shooting assistance. Water pre-treatment includes following areas of expertise:

- HRSC Clarifier
- Tube Settler / Plate Settler / Lamella Clarifier

Waste Water & Sludge System Overview



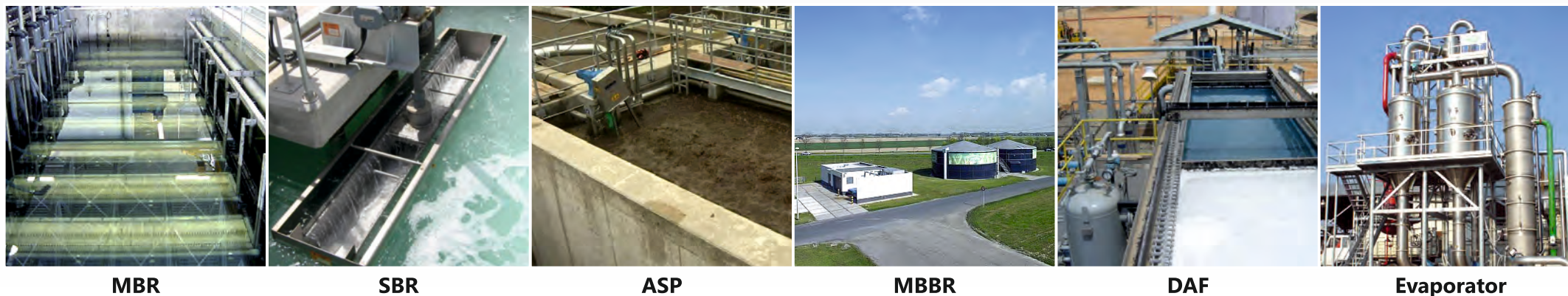
Waste water & Sludge Treatment

The Principal objective of waste water treatment is generally to allow human and industrial effluents to be disposed of without danger to human health or unacceptable damage to the natural environment.

Waste water & sludge treatment includes physical, chemical, and biological processes to remove physical, chemical and biological contaminants. Its objective is to produce an environmentally safe fluid waste stream and a solid waste suitable for disposal or reuse. Using advanced technology it is now possible to re-use sewage effluent for drinking water.

The treatment includes following processes and equipments over which we have planning, designing & implementation expertise.

- Activated Sludge Process (ASP)
- SBR
- MBBR
- MBR
- DAF
- Thermophilic Anarobic Digestion (TAD)
- Evaporator (SEE / MEE)
- Disinfection



MBR

SBR

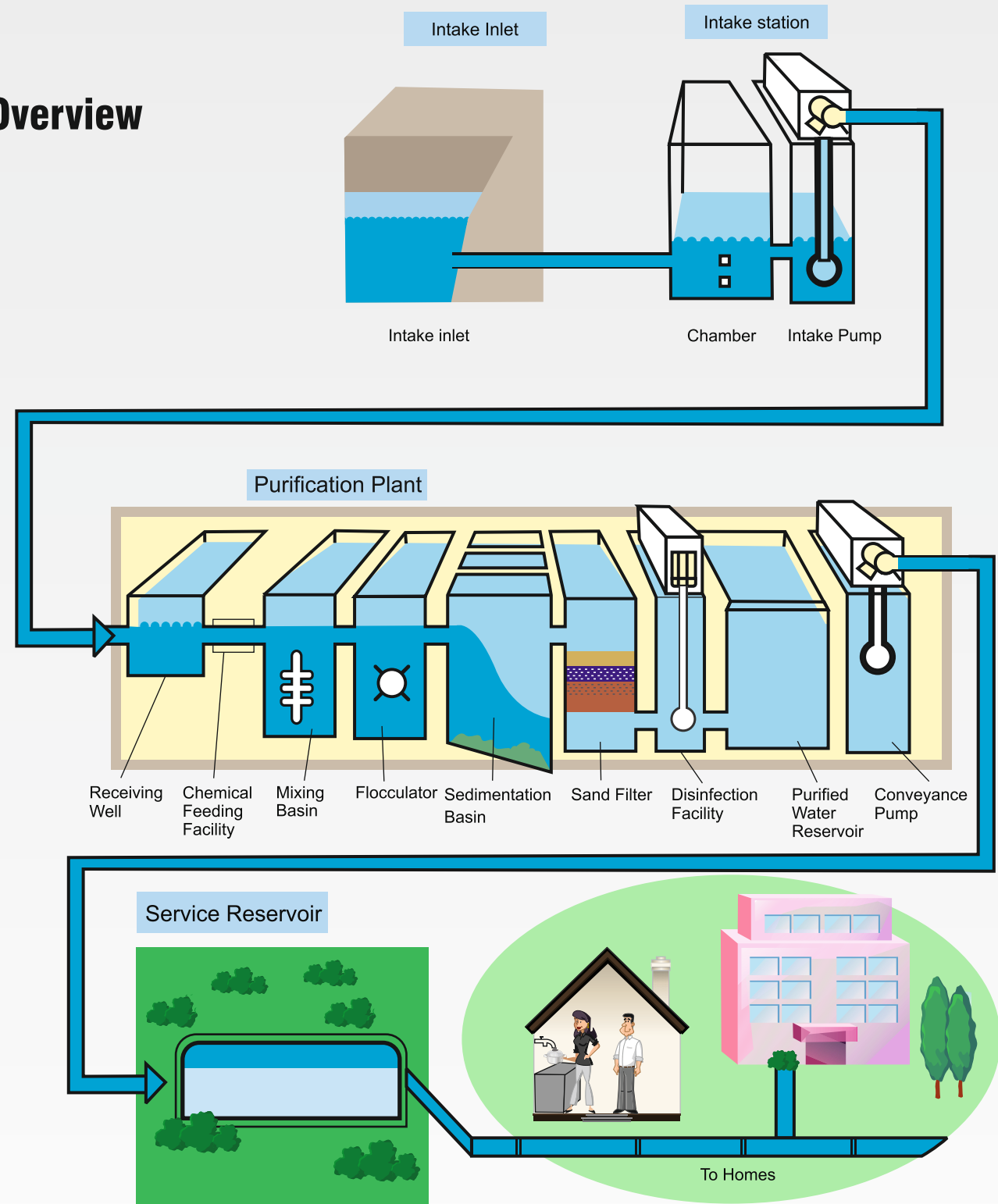
ASP

MBBR

DAF

Evaporator

Water Purification System Overview



Water Purification

Water is an excellent solvent and can be sourced from almost anywhere on Earth. This property makes it prone to all kinds of contamination. Suspended or dissolved particles, organic compounds, impurities and other contaminants prohibit the usage of water for potable or laboratory purposes. Water purity is extremely important for potable usage or laboratory requirements.

There are a number of methods commonly used to purify water. Their effectiveness is linked to the type of contaminant being treated and the type of application the water will be used for.

- Media Filtration
- Micro Filtration
- Ultra Filtration
- Nano Filtration
- Deionization
- Reverse Osmosis
- DM Plant
- MBE
- Disinfection



Ultra Filtration



Micro Filtration



Media Filtration



Reverse Osmosis



MBE