
**TRUST
US
FOR
EVERY
DROP**



GRAM
ENVOSOLUTION PVT. LTD.

**PURE WATER
IS THE WORLD'S FIRST
AND FOREMOST MEDICINE**



GRAM - AN OVERVIEW

A professionally managed company, GRM Enviro Tech Solutions is one of those organizations which provide effective solutions in the field of water treatment. We undertake all water and waste water treatment projects starting from effluent treatment to reverse osmosis. The company has been incorporated with the idea to safeguard the fifth element - WATER.

GRAM is the brain child of a team with vibrant and qualified engineers and their enthusiasm , dedication to make the "GRAM" leader in providing all water solutions under the sky. GRAM is in the hands of experts who share a passion to make it big by creating a revolution in the feild of water treatment by providing technologically advanced water solutions at a price which is cheap and affordable to all range of clients

ABOUT US



Mr. Rajamanickam Ganesan- established the GRM group of companies in 2011 with their headquarters based in Coimbatore- the Manchester of Southern India. And with the academic knowledge of Chemical Engineering and Technology, a visionary in International Business Administration and Implementation of futuristic technologies in the field of water treatment and management systems especially in South India. GRAM – has been started with the minimal support of infrastructure and small-scale workspaces, with the eminent efforts that leads to attain the rapid growth in a shorter span through strategically in the field of water treatment industries by the innovative thoughts and ideas to leave their foot prints in Southern part of India

WORLD WIDE

With Over 500 + Successful project completion, GRAM is a world-class technology – leading manufacturer & Construction of Environmental Engineering products and entire plants. A specialist in the field of Packaged Water Treatment System for Waste Solids / Liquid separations.

From identifying the requirements adopting futuristic technology and creating value efficient solutions. GRAM visualizes itself as a supplier of made to measure solutions that accomplish our Customer's requirements in the optimum way.

MAXIMUM QUALITY

Our reputation is based on the expertise and experience in a broad range of well proven processes. We provide International technology for water treatment to industrial, domestic requirements of water and wastewater treatment and an extensive track record in the designing, supplying, and construction of plants across the world for the treatment of water, wastewater, sewage water, and sludge.

INNOVATIVE

GRAM is an innovative water treatment company. GRAM's purpose is to help our customers to improve their water, energy and raw material efficiency by introducing sustainable products and solutions to the market.

“ Pure Water is the worlds first and formost medicine ”

-Slovakian Proverb

SPECIALIZATION

We specialize in:

1) New Projects

- Sewage Treatment Plant
- Effluent Treatment Plant
- RO Plant
- Softener Plant
- Ultra Filtration Plant
- Water Treatment Plant
- Iron Removal Plant
- Mineral Water Plant
- DM Plant
- Scrubber
- Hydro Pneumatic System
- Evaporator
- Nano Filtration

2) Re-vamping of existing plants

3) Annual Maintenance Contracts

4) Supply of Accessories and Chemicals

5) EIA Study

6) PCB Documentation work



WHAT IS GRAM

GRAM undertakes a large number of water and waste water treatment projects. We use very advanced technology and see to it that we provide our customers with the most excellent service. We introduce ourselves as project coordinator providing designing, manufacturing and installation services on turnkey basis for various projects.

We also undertake the re-vamping of old small plants as well as repairs of existing plants. With our consultancy services and technical assistance, we have proved our credentials in providing finest ideas and plant erections. We have been a reliable source for our clients.

We also have a wide range of products to our credit. We deal with products ranging from filters to chemicals. The products we supply are of very high quality and very efficient.

We also deal with annual maintenance contracts (AMC). We are very consistent in all the AMC's that we take up and we see to it that the plants run very well under our supervision thus giving no chance to our clients to complain or have any discomfort of any kind.

Other feathers in our GRAM:

- 1) Our Service Team
- 2) Our R&D Team
- 3) Client relationship

We also pride about our quick response to servicing calls from clients and smooth client relationships. We have been consistently taking efforts to provide our clients with good quality products and efficient service backed up with advanced technology and affordable rates. A drive to satisfy our customers with the 'Best' that we can provide is the main strength of our company. To us our customers come first and it is our customers that give us the strength to go on.

Last but not the least we have a very able R&D team which is consistently involved in introducing and inventing new technologies in all the projects, services and products that we provide. Our team is determined to provide our clients with the latest in market and is always involved in the efforts to achieve that.

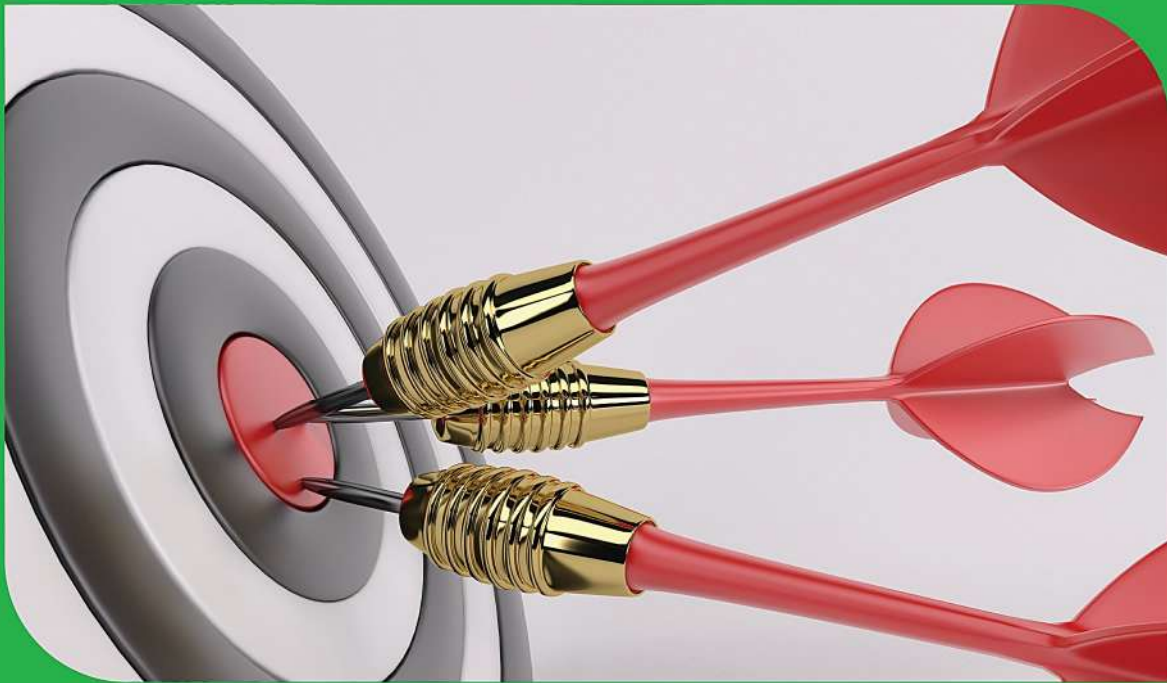
Thus GRAM is a one stop location of everything related to water. We have answer to any water problem and we guarantee that what we provide will satisfy all who approach us. We have the zest to achieve perfection and we are constantly in the efforts to do so. With advanced technology, smart leadership and dedicated team, we are climbing the ladder of success by gaining satisfied clients and a world with pure water.

Summing up we call ourselves

GRAM

THE ULTIMATE SOLUTION FOR ALL WATER PROBLEMS





OUR MISSION

GRAM Commitment is to achieve these goals 2035, Zero Waste, 50% less water use, 50% reduction in energy intensity, 50% more local renewable (50,000 mwh) 100% design for the Environment-approved products. We are committed to continually working toward a sustainable society with integrity and in unity with our customers, partners, communities and the world around us.

OUR VISION

GRAM believe the future quality of human life dependent on both economic vitality and a healthy, sustainable natural environment. We put into place a set of environment goals that included zero operational footprint, 100 percent green energy. We begins with these principles positive, transparency, products as living things, becoming greener together.



OUR TEAM

BUSINESS DEVELOPMENT TEAM

GRAM has a very efficient business development team to its credit. The business development team is the ones that approach the client for the first time. They do to the point requirements gathering and based on the understanding of the requirements of the clients, they undertake in-depth study of the projects and suggest the client with the best technology that can be used and the cheapest they can provide.



R&D TEAM

This team is involved in the research and development in the field of water treatment. This team is wholly involved in the research and study of the latest technology in market thus making GRAM the provider of the best in market. In case a new problem arises during commissioning of a new plant or revamping of an existing plant, this team guides in solving the problem after



extensive research. This team actually keeps the company up to date with the growing technology and thus makes the products and services of GRAM one of its kinds. This team is also involved in introducing totally new technologies to market in support of GRAM vision and aims. GRAM has a group of very efficient and innovative engineers under the R&D team who have a thirst to invent something new and learn all that is new in market.

DESIGN TEAM

GRAM has a design team comprising of expert engineers who have a lot of experience in the field of water treatment. They are vibrant engineers with a lot of innovative ideas and a determination to do a lot in this field. They are dedicated to the company and share a dream of making GRAM one of the best in the field of water treatment. This team takes care of designing of project and project management.



ERECTION AND COMMISSIONING TEAM

GRAM has a team of very well trained engineers who take care of the erection and commissioning of the projects. This team works with level of perfection and dedication. These engineers are technically sound and highly experienced.

SERVICING TEAM

GRAM servicing team is another pride of this company. The service engineers are quick in problem identification and very efficient in problem solving. They work in a non time bound manner providing very efficient service as soon as possible. GRAM has service persons throughout Tamilnadu and few other major cities in India.



PURCHASING TEAM

This team takes care of purchasing any material needed for the projects and gives it to the erection and commissioning team. This team is updated with every new product in market and they keep track of any rise or fall in prices.

ANNUAL MAINTENANCE CONTRACTS TEAM

This team takes care of all the Annual Maintenance Contracts (AMC) taken up by GRAM. This team comprises of very efficient and experienced engineers who take care of all that has to be attended to for an AMC.

THE ADVISORS

GRAM has some experts in the field of water treatment as advisors who efficiently guide all the teams in GRAM to function to the best of their ability.





OUR PROJECTS

GRAM deals with different water and waste water treatment projects like:

SEWAGE TREATMENT PLANT (STP)

Sewage treatment is a process used to remove contaminants from wastewater and convert it into an effluent that can be returned to the water cycle. Once returned to the water cycle, the effluent creates an acceptable impact on the environment or is reused for various purposes (called water reclamation). The treatment process takes place in a wastewater treatment plant.

TECHNOLOGIES IN STP

- ASP • FBBR • MBR • SBR
- GETSBR • Electro coagulation (ESTP)

APPLICATIONS

- Treating Toilet waste, Canteen waste, Bath waste



EFFLUENT TREATMENT PLANT (ETP)

Effluent Treatment Plant (ETP) is a Wastewater Treatment process and is designed to treat industrial, commercial, & residential wastewater by removing contaminants (toxins, bacteria, wastewater, & sludge) from it for making them reusable and its safe disposal into the environment.

The main purpose of ETP: 1. To clean industry effluent and recycle it for further use

2. To reduce the usage of fresh water in industries

3. To preserve natural environment against pollution

4. To meet the standards for emission of pollutants set by the Government

5. To reduce expenditure on water acquisition.

TECHNOLOGIES IN ETP

- ASP
- Electro coagulation
- FBBR

TECHNOLOGIES IN ETP

- Treating all types of industrial effluents

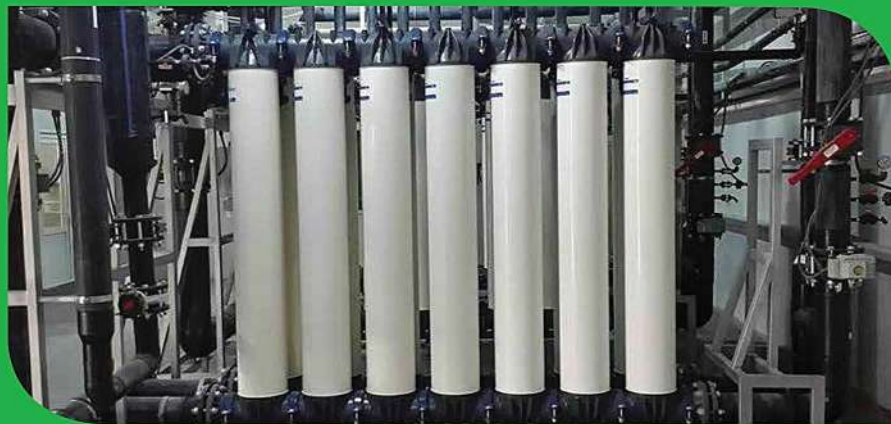


ULTRA FILTRATION

Ultra Filtration systems work almost like any other water filtration system and it is a separation process using membranes. Ultra Filtration (UF) is a single-membrane water filtration method that acts as a barrier to viruses, particulates, bacteria, endotoxins, and other microbes suspended in the water. This purification method allows for the production of pure water with a low silt density. Ultra Filtration membrane filtration (UF) is a low-pressure membrane filtration procedure for water treatment that removes turbidity-causing particles like suspended solids, germs, colloidal debris, and proteins.

APPLICATIONS

- Pretreatment of RO Systems
- Surface Water Application



NANO FILTRATION

A nanofiltration filter has a pore size around 0.001 micron. Nanofiltration removes most organic molecules, nearly all viruses, most of the natural organic matter and a range of salts. Nanofiltration removes divalent ions, which make water hard, so nanofiltration is often used to soften hard water.

APPLICATIONS

- Surface Water Application
- Removal of metals, ions present in waste water



ZERO LIQUID DISCHARGE PLANT -(ZLD PLANT)

Zero liquid discharge (ZLD) refers to a treatment process in which the plant discharges no liquid effluent into surface waters, in effect completely eliminating the environmental pollution associated with treatment. Apart from this benefit, a ZLD process also makes effective use of wastewater treatment, recycling, and reuse, thereby contributing to water conservation through reduced intake of fresh water. This chapter discusses the challenges of ZLD in a variety of process plants, such as bulk drug manufacturers, textile factories, and chemical and fertilizer plants. Creating zero discharge solutions can be accomplished by concentrating the effluent using various techniques, including membrane-based and multiple effect evaporation-based systems, and recovery and recycling of water.

Applications:

- Cooling tower blowdown in heavy industry and power plants
- Food and beverage processing
- Flue gas desulfurization
- Municipal potable water systems
- Process water reuse from agricultural, industrial and municipal streams



SCRUBBER

Wet scrubber is a form of pollution control technology. The term describes a variety of devices that remove pollutants from a furnace flue gas or from other gas streams. In a wet scrubber, the polluted gas stream is brought into contact with the scrubbing liquid, by spraying it with the liquid, by forcing it through a pool of liquid, or by some other contact method, so as to remove the pollutants.

APPLICATIONS

- Packing Industries
- Paint Industries
- Metallurgical Industries



EVAPORATOR:

Evaporator is a method of removing water from water-based waste by converting the water in the waste to a vapor and leaving contaminants. The function of a wastewater evaporator is to reduce the volume of waste materials. Wastewater evaporation has become an effective method for removing contaminants and concentrating liquid waste. It can remove salts, heavy metals, and hazardous materials.

APPLICATIONS

- Surface Water Application
- Removes TDS
- Removal of heavy metals from wastewater



REVERSE OSMOSIS (RO)

Reverse osmosis (RO) removes contaminants from unfiltered or impure water, or feed water, when pressure forces it through a semi permeable membrane. Water flows from the more concentrated side (more contaminants) of the RO membrane to the less concentrated side (fewer contaminants) to provide clean drinking water. The fresh water produced is called the permeate. The concentrated water left over is called the waste or brine.

APPLICATIONS

- Treating bore water, sea water, Corporation water
- Production of Drinking water
- Treating brackish water, Tap water, Generator feed water
- Treating effluent water



SOFTENER PLANT

Softening by ion exchange resin is also known as Base Exchange softening. It is the most common and probably the easiest method of removing hardness (that is calcium & magnesium) from water and renders the water suitable for utility purpose.

APPLICATIONS

- Production of water fit for domestic purposes
- Production of water fit for industrial purposes eg. Cooling Towers
- Pretreatment of RO feed water



WATER TREATMENT PLANT

Water Treatment Plant (WTP) is a method of improving the physical, chemical, & biological quality of impure or raw water by removing available impurities like color, turbidity, algae, solid waste, debris, heavy metals, oil, germs and other microorganisms for making the water suitable for drinking purposes without affecting our environment and WTP can significantly make the color, smell, and taste of the water better.

APPLICATIONS

- In Mineral Water industry
- Surface Water Application
- Pre-treatment for RO systems
- Final Treatment in STP and ETP



IRON REMOVAL PLANT:

Iron removing plants use iron removing filters to remove excessive amount of iron from groundwater by the process of biological oxidation followed by rapid sand filtration. This process converts dissolved ferrous iron salts into insoluble ferric salt, following which it is precipitated on a filter bed. In addition, presence of Iron in drinking water leads to bad color, odour and appearance of water.

APPLICATIONS

- In Mineral Water industry
- Surface Water Application
- Drinking Water
- Pre- filtration for RO



MINERAL WATER PLANT

The processes used in a mineral water plant can vary, based on the products and requirements. In addition to the process of raw water filtration, the process of mineral water must adhere to stricter standards, as set by the government. These guidelines include sanitary conditions, and quality standards based on the norms and available water qualities.

APPLICATIONS

- Treating Tap, Bore, Well, Sea & Brackish water
- Production of Drinking water



DEMINERALIZATION PLANT

Demineralization or deionization is the process of removing dissolved salts from water by using Ion Exchange Resin. Basically Ion exchange demineralization is a two step process with both Cation and Anion resin. The raw water called influent water is first passed through the Cation resin bed containing SAC Resin in H⁺ form. Ca, Mg & Na are removed and the salts are converted to their respective acids.

APPLICATIONS

- Treating Boiler Feed water
- Production of water for industrial use
- Production of water for Power Plant Generators



PUMPING SOLUTIONS

HYDRO PNEUMATIC SYSTEM

A domestic & industrial water supply system in which water is pumped from the supply system into a pressure tank for storage. Air in the tank is compressed by the water entering the tank.

APPLICATIONS

- Commercial offices and industries
- Clubs and sports complex
- Restaurants & Hotels
- All Istorey buildings



BOOSTER PUMPS

Booster pumps – are designed to increase the water flow in the domestic & industrial sectors. We Gram always focus on the perfect water pressure just when our customers needs it. These are also useful in applications where a single pump cannot deliver the desired service.

APPLICATIONS

- Auto mobile industry
- Residential Requirements
- Individual villa and Resorts
- Food joints & Processing unit



MAGNETIC WATER CONDITIONER

Magnetic Water Conditioner -the special product in the field of 'HARD WATER' treatment process which helps in the field where water is soul of process. Product is a specially designed product in which - Ultrasonic, Magnetic static as well as pulsing power technology with added values of Catalytic technology in our water conditioner. The most benefits are consuming less power, provide us the best results in hardness treatment and controlled by the advanced designed micro - processor.

APPLICATIONS

- Hotels
- Apartments
- All Residential Structures



COMPREHENSIVE OPERATION AND MAINTENANCE(O & M)

“Operations and Maintenance are the decisions and actions regarding the control and upkeep of property and equipment.”

Operations are the activities to make sure the plant produces the desired quality and quantity of treated water and meets the current legislation, while maintenance are the activities to make sure the plant equipment continues to work efficiently to achieve the operational objectives. Also provide entire chemicals and consumables used in the respective plant will be provided with OEM prices. The growing trend in outsourcing the operation and maintenance of water and wastewater treatment plants.



ANNUAL MAINTENANCE CONTRACT (AMC)

The concept of AMC Contract is designed to achieve the trouble free quality Plant maintain by the technically qualified and experienced people in the specific field of the water treatment with periodic monitoring system.

The Annual Maintenance Contract (AMC) takes care of preventive maintenance. The AMC ensures the longevity of Components, trouble free operations and lower downtime. Services include scheduled inspection & scheduled maintenance of the Plant. Backed by this we ensure longevity of Components, trouble-free operations and lower downtime. Our annual maintenance contract services comprises of scheduled inspection & scheduled maintenance of the Plant.



THE BLOOM BOX STP WITH SOLAR SYSTEM

GETS is the first water treatment company in india to introduce BLOOM BOX the single sytem with all Pollution Control Measures.

THE BLOOM BOX

GETS BLOOM BOX will be the next revolution in waste water treatment market. BLOOM BOX is the only solution to control the water pollution,air pollution, noise pollution wihtin the limits, there is no need of plant rooms and numerous civil tanks



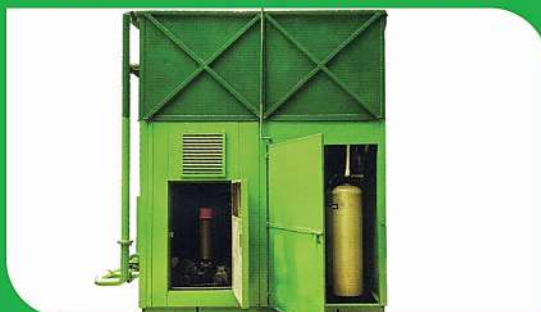
STP 50 KLD PLANT



STP 100 KLD PLANT



ACOUSTIC WITH ENCLOSURE



MBR TECHNOLOGY



THE BLOOM BOX WITH SOLAR POWERED

We Gram has introduced India's first type of indigenous system hybrid packaged sewage treatment plant which powered with solar energy .These Solar energy is a renewable resource, and many of our technologies can harvest it directly for use directly in domestic, commercial and industrial areas for effective power consumption and sustainable with more cost energy savings alternative for conventional electricity power generation.



THE BLOOM BOX ETP

GETS is the first water treatment company in india to introduce BLOOM BOX the single sytem with all Pollution Control Measures.

GETS BLOOM BOX will be the next revolution in waste water treatment market. BLOOM BOX is the only solution to control the water pollution,air pollution, noise pollution wihtin the limits, there is no need of plant rooms and numerous civil tanks

OIL INDUSTRY ETP



HOSPITAL ETP



COIR INDUSTRY AND AUTO MOBILE ETP



PHARMA INDUSTRY ETP



WE ARE PROUDLY LAUNCHING FUTURISTIC SEWAGE TREATMENT PLANT HERE



THE GETSBR TECHNOLOGY

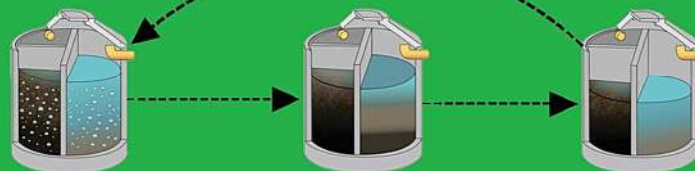


GETS is the first water treatment company in india great launch for **GERMAN TECHNOLOGY** with **INDIAN ENGINEERING**-India's Most Advanced Automated Sewage Treatment Systems, fully biological SBR Domestic wastewater treatment plants.

FULLY AUTOMATIC SBR SYSTEMS

AQUATO GRAM Has succeeded in what has been tried for a long time-the small sewage treatment plant with almost no sludge removal-approved and with outstanding cleaning performance. Systems under the most varied conditions have proven over the years that works "without ifs and buts".

The selection and use of high-quality components plays just as important a role in the success of our GETSBR solutions as the simple assembly of the components on site.



1. Aeration Phase

2. Sedimentation Phase

3. Discharge Phase



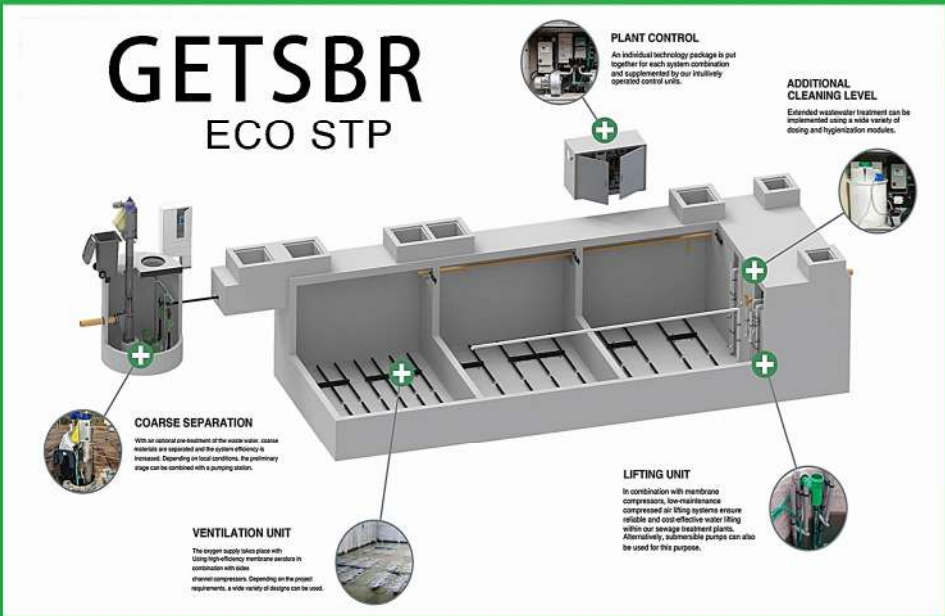
THE GETSBR TECHNOLOGY



FULLY AUTOMATIC SBR DOMESTIC SYSTEMS



FULLY AUTOMATIC SBR COMMERCIAL SYSTEMS



We can able to polishing the treated water by integrated with UF and UV.



FEW OF OUR PRESTIGIOUS CLIENTS



MK Builders & Developers
Visakhapatnam



M.V.V BUILDERS



LOOK AHEAD-LOOK SOUTH



Kovai Medical Center and Hospital
MAKING THE IMPOSSIBLE POSSIBLE



**SRI RAMAKRISHNA
EDUCATIONAL
INSTITUTIONS**



PROZONE
LIFE BEGINS HERE



ALSTOM
SCE



C&C | **CLASSIC POLO**
SIGNATURE



CASA GRANDE
PRIVATE LIMITED
"Building Aspirations"



aroma

SABARI CONSTRUCTION
We combine service & experience for better RESULTS
We bring best practice of engineering Challenges over 15 years



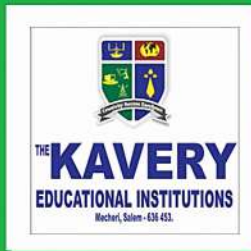
S.P. APPARELS

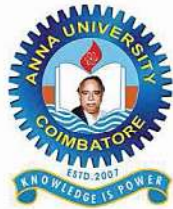


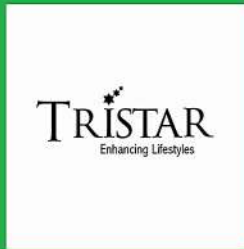
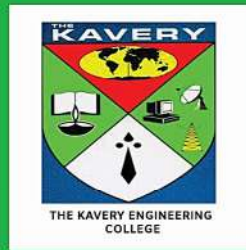
Sreevatsa Real Estates (P) Ltd
Building on the Foundation of your trust











And many more.....

FACTS & FIGURES

2011

GRM ENVIROTECH SOLUTIONS was started by the founder G.Rajamanickam. The company is based on water and waste water treatment with operation & maintenance of waste water treatment plants.

2016

GRAM ENVOSOLUTIONS PVT. LTD. is a world-class environmental engineering company founded by G.Rajamanickam which provides unique solutions for all kinds of renewable energy and environmental engineering works.

> 100

Direct and indirect potential employees with years of experience and highest level of expertise.

> 10

years of experience in providing remarkable contribution to the environment.

> 3 CRORE

Liters of water is being recycled by our Installation per day.

> 7 CRORE

Liters of Hygiene drinking water delivered to hospitals, malls, apartment, schools, colleges, industries and farms per month.

300

No. of Installations in STP, ETP, RO, WTP for hospitals, malls, apartment, schools, colleges, industries and farms.

7000

Square meter work space including factory, office, R&D division, godown etc..

> 250

Clients got benefited from our products and the plants are running smoothly.

> 10 CRORE

Average annual turn over





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