

# Aqua d Express



Monthly Magazine  
October 2009 Edition



## MD'S DESK

Dear All,

I congratulate the Lab Team for their sheer display of hard work and Team effort shown when the pre assessment Audit was conducted by NABL. My good wishes to them to complete the final Audit successfully and obtain the Accreditation which will be an additional credit to our already impeccable laboratory services.

Good job done by HR in organizing several interesting training programs for the benefit of our Associates. I expect more such sessions to be conducted in future which will enrich their knowledge both personally and professionally.

The glitz and glamour of the colours of Deepavali was evident in the events conducted to celebrate the festival. Indeed a captivating job done by our women Associates in decorating the foyer artistically with lamps. Also appreciate the fun session organized and I could see lot of hidden talents exhibited by our associates which was really commendable.

Embarking upon tree plantation in association with the Lions club and planting 100 saplings in Muthukumaran college of Education was an ideal way of commemorating World Service Day and also realizing our motto "Plant a Tree and green the future". I want more such programs to be organized in schools and institutions in days to come.

So, we are preparing in all directions to leap forward in our business initiatives and project an impressive growth rate by this quarter ending, for which undoubtedly all our team effort is required to reorient and synergize ourselves as a team to meet all the challenges.

Regards



S. Suthakar  
Managing Director

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**AQUA DESIGNS VISION PREPARES US FOR THE FUTURE...**
**Today's Look at Tomorrow's Technology**

World Bank recent surveys have brought out some startling facts, 300 million people live in areas of serious to severe water shortage and 25 years from now, that number could reach upwards of three billion.

The demand for fresh water supply will increase and the available unpolluted water resources are depleting. The awareness of tapping into what may be considered less-than-desirable water resources is rapidly gathering momentum.

Over the past few years, an ever-increasing number of water and wastewater treatment facility managers in various Industries have decided to incorporate recycling systems. Membrane based filtration technology is being looked upon as an established and a cost effective solution for recycling.

**Membrane Technology**

Huge strides have been made in the manufacturing of membranes, from the primitive cellulose acetate based membranes. Over the past two decades, membranes base materials have evolved into highly inert substances such as Polyamides and PTFE, which are highly tolerant to chemicals and withstand harsher operating conditions

**Membrane Bio Reactor**

**Yes... Now we have membranes that will work in the most unforgiving conditions.**

MBR technology continues to evolve at a rapid pace. MBR can be economical when high quality treated water from feed effluent is required. The process achieves a superior effluent quality with fewer treatment processes. **Space occupying**

**secondary settling systems and trouble prone chemical precipitation based tertiary treatment systems are completely eliminated.**

The cost for disinfection is reduced because membranes remove pathogens and organics at higher levels than other treatment technologies. Well designed MBR systems offer the flexibility of modular construction. Membrane modules can easily expand a well-planned facility that uses MBR. MBR generates lesser waste solids than conventional processes.

Simple automation process makes the system operator friendly and eliminates human error. The MBR process is well suited for retrofits where existing tanks can be modified to fit the process.

**AQUA DESIGNS..... ADVANTAGE MBR**
**"We at Aqua Designs believe that change is the way of life"**

Aqua designs has spearheaded the MBR technology in India. After detailed deliberation and evaluation, Aqua designs has chosen to go with the hollow fiber based submerged MBR configuration. Aqua designs have partnered with Hydranautics USA, for their membranes. The effort of judiciously recommending the right technology to the industry has paid handsome dividends.

The MBR offered by Aqua designs use PTFE as the membrane material. The fibers have many unique structural advantages such as double sheath construction, dual permeate withdrawal, patented potting and self clogging on breakage.

Today with over half dozen corporate names in our client list and more than 18 installations with the oldest over 3 years old. Aqua Designs is well set in the fast track to implement mega sized MBR projects in India and other countries.

Aqua Designs MBR based installations now cover the following industrial Effluents,

- Municipal and Industrial Sewage
- Pharmaceutical Effluent.
- Automobile Industry.

**Aqua Designs is currently working on more types of industrial effluents and offers its expertise to all its clients and the industry.**

## THE MONTH'S EVENTS

# Celebrating Diwali

Deepavali, the festival of lights was celebrated in style in our premises. The fun, happiness and harmony around was further highlighted by our associate's enthusiastic involvement in the games conducted like Dumb Charade, Antakshari etc. The hidden talents of many came to the fore which was a revelation. The day concluded with the bursting of crackers etching happy and fun filled memories in everyone's mind.



## COMMEMORATING WORLD SERVICE DAY

Every Corporate has its own responsibility to demonstrate something to the society.

Aqua Designs, being connected to environment and eco friendly philosophy has 'To plant a tree and green the future' as its motto. This was realized when a group of our Associates visited the campus of Sri Muthukumaran College of Education near Mangadu for planting the saplings in their premises.

100 saplings were sourced for this purpose and everyone took great pride in participating in this worthwhile cause.



## BASIC FIRE KNOWLEDGE



### Fire needs three essential ingredients to start:

Heat, Oxygen and fuel. Try to keep these 3 from coming together and you will reduce the risk of fire.

### Please follow the important steps:

1. In a fire situation, raise the alarm
2. Keep all routes clear of obstruction
3. Ensure fire exits are never blocked
4. Ensure that notices remain on display
5. Keep all fighting equipments in the right place and never abuse it.
6. Familiarize yourself with all the escape routes in the building
7. Fire exits must be kept clear
8. Do not stop to collect personal belongings
9. Do not open closed doors to rooms where there is fire
10. Leave the building and stay at the assembly point until it's safe to re-enter

An awareness training program on Fire Safety, provided for Associates including site operators, was indeed an excellent opportunity and knowledge gain with regards to the Do's and Don'ts about fire. Some important tips to remember and to share with others.....



fire safety

### Fire Extinguishers and How to use them

1. Only use a fire extinguisher if you have been trained. There are four main types of fire extinguishers: Water, Carbon dioxide, Powder and foam
2. Water extinguishers are not suitable for electric or oil fires. They are best suited to solid fuel fires like wood, paper and so on.
3. Carbon dioxide extinguishers can be used on most fires, but they're particularly good for fires with electrical equipment.
4. Powder extinguishers can be used on most fires-gas, solid and liquid fuelled.
5. When using an extinguisher, use the entire contents
6. When using an extinguisher, keep between the fire and the escape route.
7. Fire blankets are good for people with burning clothes



### Safety tips while using gas appliances

1. Have your gas appliances checked regularly by a registered person.
2. Never tamper with gas appliances yourself.
3. Poorly maintained gas appliances emit carbon monoxide, a potentially fatal gas.
4. If there is a smell of gas, switch off your stove, keep the doors and windows open and inform the nearby gas agency.
5. Don't switch any gas appliances ON or OFF if you suspect a leak.



## INHOUSE TRAINING...



**A**n Awareness Program with regard to the benefits available with the Star Health Insurance scheme

extended by the Company, in case of hospitalization, was organized for our Associates.

**A** training program on “Interpersonal Effectiveness” focusing on ways and means to



improve our inner personality and manifest all our ability in our official and social life was given by Mr. Ganesh, Psychologist. The training turned out to be a real eye opener to all associates who participated in the program.



IEM Training – October 22<sup>nd</sup> 2009



Participants from  
Aqua Designs India Limited  
Off 200 Feet Road,  
Kolathur, Chennai 600 099

Venue : “Satellite” Poul Due Jensen Academy  
GRUNDFOS PUMPS INDIA (P) LTD.  
118, Old Mahabalipuram Road,  
Therapakkam  
Chennai - 600 097



## AROUND THE WORLD.....



The Girl Who Silenced the U.N. for Five Minutes

**A**n incredible video clipping of a Canadian girl ,who spoke to the United Nations and left them **completely silent and speechless for five minutes.** was posted recently in

the website YOUTUBE. Her name is Severn Suzuki, and her speech was given at a U.N. assembly in Brazil when she was twelve years old..Speaking about the hole in the ozone layer, pollution, the devastation of the forests and extinction of so many species, Severn charges that we adults have no idea how to fix these things, in fact can't fix them, and that we must change our ways. **“If you don't know how to fix it, stop breaking it,”** she pleads.

And here's the kicker this speech was given in 1992, at the Earth Summit in Rio de Janeiro. How much is still relevant today? All of it. And the more important question is: **How much has been changed, accomplished, since Severn spoke that day?**

Years later, Severn wrote a piece for Time magazine in which she said: “I spoke for six minutes and received a standing ovation. I thought that maybe I had reached some of them, that my speech might actually spur action. Now, a decade from Rio, after **I'm not sure what has been accomplished.** My confidence in the people in power and in the power of an individual's voice to reach them has been deeply shaken...In the 10 years since Rio, I have learned that addressing our leaders is not enough. As Gandhi said many years ago, **'We must become the change we want to see.'** I know change is possible.”

Today, Severn is an environmental activist, speaker, television host and author and also a member of Kofi Annan's Special Advisory Panel, and playing an active role environmental issues.

**A**n intensive technical training on usage of pumps was conducted by M/s. **Grundfos Pumps India (P) Ltd.** for our O&M operators which proved highly beneficial to them in enhancing their working knowledge.



## AQUANAUT'S CREATIVE CORNER

### 10 INTERESTING FACTS

Mr. P.Thiyagarajan Engineer - Process



1. Dalmatians are born without spots.
2. Bats always turn left when exiting a cave.
3. The 'v' in the name of a court case does not stand for 'versus', but for 'and' (in civil proceedings) or 'against' (in criminal proceedings).
4. Men's shirts have the buttons on the right, but women's shirts have the buttons on the left.
5. The owl is the only bird to drop its upper eyelid to wink. All other birds raise their lower eyelids.
6. The reason honey is so easy to digest is that it's already been digested by a bee.
7. Roosters cannot crow if they cannot extend their necks.
8. The color blue has a calming effect. It causes the brain to release calming hormones.
9. Every time you sneeze some of your brain cells die.
10. Your left lung is smaller than your right lung to make room for your heart.

"Aim for the Moon,  
If you miss it,  
You will be amongst  
the Stars"

"Before you see  
the change in  
the world,  
Make the changes  
within you"



Mr. K.Mohan  
Manager Accounts

## NEO AQUANAUTS



**Mr. P. Gokulakrishnan**  
joined our team as  
Senior Engineer-Process  
and has around 1.3 Years of Experience  
in the Field.



**Mr. R. Ravi**  
who has an all round, rich and varied  
experience through his various  
assignments for last 25 yrs in Water  
Treatment Industry has joined our  
team as General Manager Process & Design.



**Mr. S. Aseefullah**  
joined our team  
as Engineer Trainee

**Mr. S.Vasudevan,**  
joined our team as  
Sr. Engineer- Q.C and  
has experience in carrying  
out all kinds of NDT  
inspections independently.



**Mr. K. Mohan**  
joined our team as  
Engineer Proposal and  
has around 2yrs Experience  
in the relevant field.



**Mr. M.M. Bharath**  
has joined our team as  
Engineer Trainee (Designs)





save water  
save the planet

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