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Aqua Designs MBR technology.*



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**AQUA D
EXPRESS**



MD'S DESK

Dear All,

The much talked about topic throughout the world, affecting many in all walks of life is the current recession scenario in the industries.

We are no less immune to the situation. Even our fund flow is getting affected due to this recession. Hence, we all have to gear up and overcome this. It is time to tighten our belts and bring in Cost Effective measures by cutting short the expenses to the maximum possible level, speed up the Project implementation and collect the payment at the earliest. However, there is no need to worry about the current scenario, as corrective measures are being charted out to tackle the situation.

I am glad to notice that the inclusion of key personnel in the Top and Middle Management level in some of the main Departments has brought in positive outputs. I would like to see this trend continue and enhancement of performance seen by their subordinates.

I saw the high level of interest shown by our Staff when they attended the Health Management Presentation given by Mrs. Ambika, a popular face in the small screen. I want the HR Dept. to conduct such interesting programs which will benefit the Staff enormously. Health is wealth and I Wish our associates follow the tips given for maintaining good health seriously.

Next month we are due for our second quarter ISO Internal Audit and I expect to see improved performance level than the previous quarter. I am sure that updating and documentation procedures are done meticulously and the System is followed and maintained at its best.

Wishing you all a Merry Christmas in advance.....
Regards


S. Sathakar
Managing Director

NEW PROJECTS OF NOVEMBER 2008



BYD Company Limited is now the world's leading manufacturer of IT components and a fast growing force in automobile industry. BYD has 8 production bases across Asia and also setup branches in America, Europe, Japan, Korea, Hong Kong and Taiwan.

BYD Electronics India (P) Ltd., the Indian subsidiary of BYD Company Ltd., has set up its new factory in Chennai since March 2007. BYD India is mainly involved in precision moulding industry. One of the repeat customers of Aqua Designs, BYD has entrusted the job of providing a 600KLD WTP with Pre-Treatment RO to us.



Jamshedpur Utilities and Services Company Limited (JUSCO), A TATA Enterprise is dedicated for comprehensive and sustainable development and management of Civic Infrastructure and Allied services. It is committed towards accomplishment of the national vision 2020 of making infrastructure available for growth and development in India. For almost a century, JUSCO has been providing civic and allied services to the city of Jamshedpur- a home to the first integrated steel plant in the country. Aqua Designs has bagged the prestigious order of providing a 360 m³/hr ETP and a 55 m³/hr DM Plant.



SRF Ltd. is a leading Indian player in Technical Textiles, Refrigerant Gases and having operating interests in Packaging Films and Pharma Intermediates sectors. The company comprises a group of different businesses like Technical Textile Business, Chemical Business and Packaging Films Business. The job of upgrading of 400 KLD 3 Stage RO has been entrusted to Aqua Designs.

NEW ENTRANTS TO AQUA DESIGNS



With a wide experience of 32 years in the field of Purchase and Stores, Mr Alagarasany Muralidaran has joined our force as GM- Purchase and Logistics

Mr.C. Kumaran as Executive Accounts and has 10 Years of Experience in the Field of Sales & Collection.



Mr. S.Manohar Joined as Deputy General Manager HR & Admin and has 34 Years of Experience in the Field of HR, ADMIN & IR.

Mr.P.K.Viswanathan as Manager E&C and has 15 Years of Experience in the Field of Water and Waste Water Treatment



Mr.P.Y.Mohan Kumar as Senior Engineer Projects and has 13 Years of Experience in the Field of Projects.

Mr.L.Shanmugha Muthu Kumar has joined our team as Assistant Manager Accounts and has around 9 Years of Experience in the Field of Accounts, Auditing and also acquired proficiency in SAPB1/R3 Versions.



Mr.S.Vijaya Kumar as Engineer E&C and has 18 Years of Experience in the Field of Projects.

Mr.A.Govinda Raj as Deputy Manager Spares and has 13 Years of Experience in the Field of Sales & Service.



FACTS ABOUT BRAIN

- Your brain uses 20% of your body's energy, but it makes up only 2% of your body's weight.
- Brain is having 75% of water.
- Your cerebral cortex is about as thick as a tongue depressor. It grows thicker as you learn and use it.
- Your brain is about 1300-1400 cubic centimeters in volume, about the size of a cantaloupe and wrinkled like a walnut.
- The brain feels like a ripe avocado and looks pink because of the blood flowing through it. Your brain generates 25 watts of power while you're awake---enough to illuminate a light bulb.
- A newborn baby's brain grows almost 3 times in course of first year
- Humans have the most complex brain of any animal on earth.
- Your brain is divided into two sides. The left side of your brain controls the right side of your body; and, the right side of your brain controls the left side of your body.
- Toxins in commonplace items such as carpeting and shower curtains may be contributing to memory loss over time.
- Overexposure to aluminum compounds in foil, cookware, deodorants, antacids, toothpaste can affect brain function
- Lavender can help you sleep.
- A cooked potato can jump-start your brain when you're feeling foggy.
- The essential oil of jasmine can quickly restore mental alertness
- Eating foods rich in vitamin E, beta-carotene, and vitamin C may help lower your risk of Alzheimer's disease.
- Certain prescription and nonprescription drugs may dramatically affect your ability to concentrate.

EVENTS OF THE MONTH

Mrs Ambika representing BODY FOCUS gave a two hrs presentation on personal health management and on dietary habits to our associates in our premises. She and her team also carried out weight checks and Mrs Ambika also had an interactive session with our associates and answered various questions on health. Incidentally, she also anchors a program in "Kalainzar TV" called "Arogi Samaiyal" every week.



IN-HOUSE COMPUTER WIZARD SPEAKING.....

WordWeb

WordWeb is a comprehensive one-click English thesaurus and dictionary for Windows. It can be used to look up words from almost any program, showing definitions, synonyms and related words. It includes pronunciations and usage examples, and has helpful spelling and sounds-like links.

WordWeb fully covers American, British, Australian, Canadian and Asian English spellings and words. It is updated regularly, and has no annoying adverts

This thesaurus/dictionary can be used to look up words from almost any program. In addition to displaying sense definitions and synonyms, **WordWeb** can find sets of related words. The database has more than 150,000 root words and 120,000 synonym sets, many proper nouns, pronunciations, and usage tags. **WordWeb** works off line, but when online you can also quickly view Web references such as the Wikipedia encyclopedia. Version 5.52 has minor updates and compatibility fixes.

The interface feels like an expanded version of any major word processing app's dictionary function, giving users an instant familiarity--even if they've never used **WordWeb**. After you type a term into the Lookup dialog box, the word's definition will appear in the interface's top pane, along with tabs that link to various functions.

The bottom pane offers tabs for such items as synonyms, antonyms, and related words. The app's most notable feature is its hot key support; you simply use a hot key combo when the cursor is pointed over any word, and **WordWeb** will pop up onscreen with all pertinent information.

There are tools for changing the database to one of several English variations, altering the text size, and disabling **WordWeb** from recognizing offensive terms. The depth and functionality of **WordWeb** would be worth paying for, but thankfully you don't have to redefine your budget to get it--it's free.



Design & Process of Desalination by RO Method

The existing designing option is envisaged for drawing sea water either by gravity flow or by using suitable water transfer pump. For gravity flow, a seawater intake head with pipe line laid in the seabed to the designed quantity of raw water or a Caisson (intake well) is built off-shore with erection of required size pump to transfer the sea water to the RO plant.

A Capture Tower will be installed at the shore end in order to avoid entry of sand and floating debris. The water will be pre-filtered through a rotating filter and chlorinated by applying a dose of Sodium Hypochlorite in the underwater intake channel and the pump aspiration chamber.

The seawater will then be filtered in two stages using sand and anthracite filters. Before allowing into cartridge filter, it is important to eliminate fine micron level particles.

For Pretreatment process, chemicals such as chlorine, ferric chloride, polyelectrolyte, sulphuric acid also antiscalant and other chemicals as per design is normally used. Similarly to achieve the final product water, chemical stabilization will require the controlled addition of lime and CO₂ to adjust water pH, hardness and alkalinity.

To prevent fouling in the reverse osmosis membrane an ultra filtration unit will be installed.

The required excess pressure for the reverse osmosis membranes, the high pressure pumps are used along with the energy recovery equipment. The ERI consist of Recirculation or Booster pumps to increase the pressure of the remaining water transferred in the direction of the Reverse Osmosis Membranes. The water discharged from the RO module is used to feed hyper baric / compression chambers, thus achieving maximum energy economy due to the performance of these groups.

The final product water will meet the required characteristics of potable water as per certified agency.

There will be periodical chemical cleaning for the performance of RO membranes and the quality of potable water.

The discharge of the high saline reject water will get fully neutralized within short area from the point of discharge. The effluent may be properly treated by suitable methods to remove toxic trace metals and other contaminants before discharging into the coastal water.