

# POWER BEHIND WATER



## Total Water Solutions for Residential Complexes

Water management is a major challenge facing town planners, builders, architects and housing societies. The quality of water, particularly for drinking, is a critical concern on account of the increasing pollution of water supply sources, both surface

and ground water. Moreover, many residential complexes suffer from inadequate water supply because of growing water scarcity. Indeed, water – its availability and quality – has become a key deciding factor in the purchase of a flat.



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For residential complexes there is an urgent need for total solutions that provide assurance

against water shortage as well as assured quality of water for every use – from drinking and cooking, to bathing, laundry and air conditioning ...swimming pools and gardening... And for service



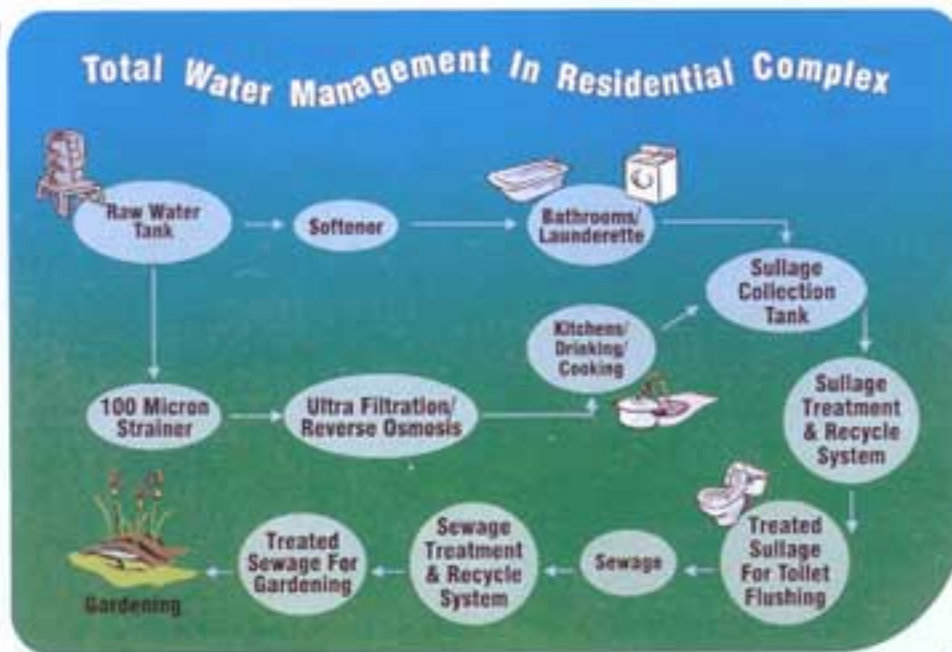
backup

– such as annual maintenance contracts and O&M services by trained and experienced service personnel – that completely relieve societies of the hassles of



operation,

maintenance and supervision.



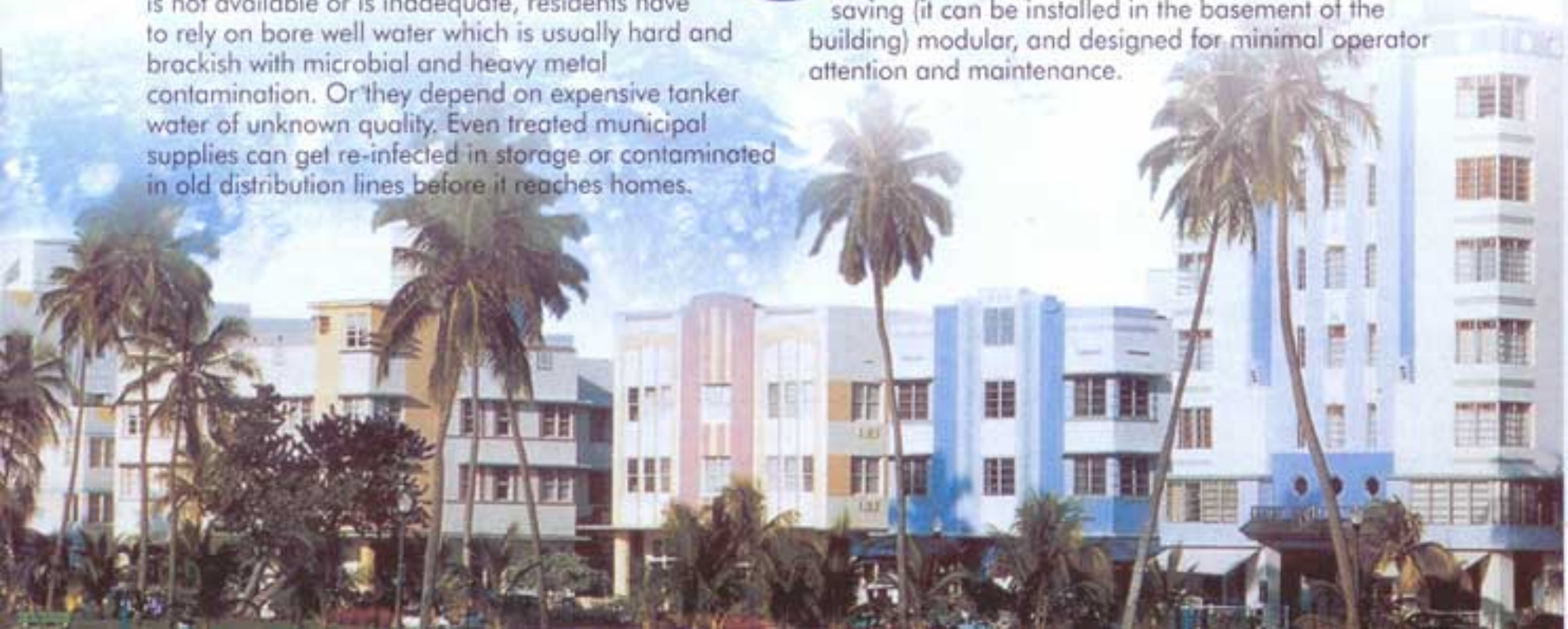
### Safe Drinking Water

80% of diseases are waterborne. So when it comes to protecting health, it is important that residents get only the best quality drinking water. In many areas where piped treated water is not available or is inadequate, residents have to rely on bore well water which is usually hard and brackish with microbial and heavy metal contamination. Or they depend on expensive tanker water of unknown quality. Even treated municipal supplies can get re-infected in storage or contaminated in old distribution lines before it reaches homes.



Central Drinking Water Treatment System: This is a very effective solution to provide safe drinking water for the entire complex.

The system is simple and compact, yet effective and versatile enough to handle water from practically any source. Equipment is space saving (it can be installed in the basement of the building) modular, and designed for minimal operator attention and maintenance.



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**Water that's crystal clear and absolutely safe to drink... beverages and food also taste better!**

## **INDION® Ultra Filtration/RO**

- Removes all dissolved solids, harmful minerals and metals
- Removes bacteria and viruses
- Removes all undissolved contaminants like



suspended solids and colloidal particles  
 • Also removes high molecular weight organic compounds



**Water that's soft... for every day household needs.**

## **INDION® Softener**

- Reduces problems of hair loss, dry and dull skin
- Less detergent required for washing clothes
- Clothes resist fading and last longer
- No scum formation, scale and deposits in taps, pipes and showers
- Toilets, tubs and wash basins remain sparkling clean
- Prevents scale build-up in boilers and geysers –



more efficiency, less energy consumption, less maintenance, longer life



It consists typically of ultra filtration. In case the water received is brackish, then it is treated through a reverse osmosis (RO) unit. A softening unit can be incorporated to remove hardness to provide soft water for bathing and laundry. Treatment units specifically for removal of iron, arsenic, nitrates or fluoride can be incorporated in areas where these contaminants are present in ground water supplies.

**Water Vending Stations:** As an alternative to a central drinking water system, a water vending station may be installed so that individual flat owners can come and collect water in their containers.



## **Point-of-Use Products for Water Disinfection & Conditioning:**

Many residents are turning to the additional safety net of point-of-use drinking water purifiers. These offer high quality, good tasting water on demand and are available in a wide range to suit all budgets and needs.



Zero B Pristine Counter Top Reverse Osmosis Purifier



Zero B Puriline On-line Purifier



Zero B Resiline On-line Purifier



Zero B Ultimate Iron Remover

Water conditioners are also available to treat problems of hardness and iron in water.

## **Assurance against Water Shortages**

A major problem facing most housing complexes is regular availability of piped water supplies, and many today are dependent on tanker water. With water supply getting more and more scarce, in future it will be difficult even for tankers to get their supplies.

**Sullage Recycle Systems:** Simple and cost-effective, sullage recycle is an effective answer to crippling water shortages. Besides residential complexes, these are also ideal for hotels, hospitals, commercial complexes, schools and colleges.

Waste water from kitchens and bathrooms (grey water or sullage) is treated and re-used for toilet flushing, gardening and other low-end uses. Sullage recycle thus reduces the requirement of fresh water by upto 60%; it makes more fresh water available for uses such as drinking, cooking, bathing and laundry while reducing dependence on unreliable and/or insufficient water supplies and drastically cutting down expense on tanker water.

Sullage recycle systems are compact, and easy to install, operate and maintain. The simple construction

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and affordable capital cost make it easy for new and existing buildings to go in for the system and payback is often within a year.

Annual maintenance contracts too are available for trouble free operation of the system.

**Packaged Sewage Treatment Plants:** A unique system of outstanding performance and efficiency; treats sewage from the complex for re-use;

treated water can be used for gardening.

**Membrane-based Bio-reactor Systems:** are compact and very reliable. They remove bacteria and viruses and treat both sullage and sewage.

INDION New Generation Packaged Sewage Treatment Plant is ideal for housing complexes, townships, hotels and resorts.

Available in a modular range, this all-in-one system is compact and simple to operate and requires minimal maintenance. The advantages include minimal land usage, minimum power and chemical requirement, and low operating cost.



**Rainwater Harvesting:** In cities, rooftop rainwater harvesting is simple and less expensive to construct, operate and maintain. In saline or coastal areas, rainwater provides good quality water and when recharged to groundwater, helps to maintain the balance between the fresh-saline water interface.

As water scarcity increases, legislation, awareness and implementation of water conservation systems will gradually gain ground. Already, in several cities, sullage recycle and rainwater harvesting are mandatory for new, large size construction projects.

## Symposium on Water Security



(L-R) Mr. Ajay Papat, Dr. L.U. Joshi, Mr. Rajesh Sharma and Mr. R.S. Rajan.



'Planning for Water Security: Emerging Trends & Technologies', a symposium convened by IEI on December 12, 2003, at Hotel Mandovi in Panaji, Goa, saw extremely good participation from all key companies in Goa.

Mr. R.S. Rajan, Vice President – Consumer Products, welcomed the participants. The keynote address by Chief Guest, Dr. L.U. Joshi, Chairman, Goa Pollution Control Board, was followed by a holistic perspective of the water crisis by Mr. Rajesh Sharma, our Managing Director, and an in-depth and informative presentation by Mr. Ajay Papat, Vice President – Corporate Marketing, on the emerging trends and technologies for water conservation.

Enthusiastic dialogue with incisive questions from the audience continued over cocktails and dinner – even the view of the glittering Mandovi River failed to divert the attention of the gathering from the core issue of water security.