

IEI's Water Assurance for Building Projects

A serious problem that new residential complexes experience is water shortage. The problem is worsening throughout India, and stringent regulations to conserve water are being introduced. For example, The Brihanmumbai Municipal Corporation proposes to reduce per capita water supply from 140 to 90 litres per day. In several metros, incorporation of rainwater harvesting and water recycle plants has been made mandatory for large building complexes.

Another critical concern is the deteriorating quality of water due to the increasing pollution of water supply sources, both surface and ground water.

Residents increasingly have no alternative but to depend on borewell water which is usually hard and brackish with microbial contamination. This can affect their health as well as quality of hair and skin, and the life of expensive sanitaryware and kitchen appliances. Tanker water is of unknown quality and also very expensive. Besides, as water gets scarcer, from where will tankers get their supplies?

Indeed water – its availability and its quality, has become a priority item on the agenda of builders, architects and housing societies who are seeking solutions that incorporate advanced technologies and are at the same time cost-effective, with a good payback period, and also compact (space being at a premium).



20 m³/h reverse osmosis (RO) system for drinking, cooling tower and boiler purposes at CGO Scope Office (20,000 inhabitants) at Lodhi Road, New Delhi. Five year annual maintenance contract.

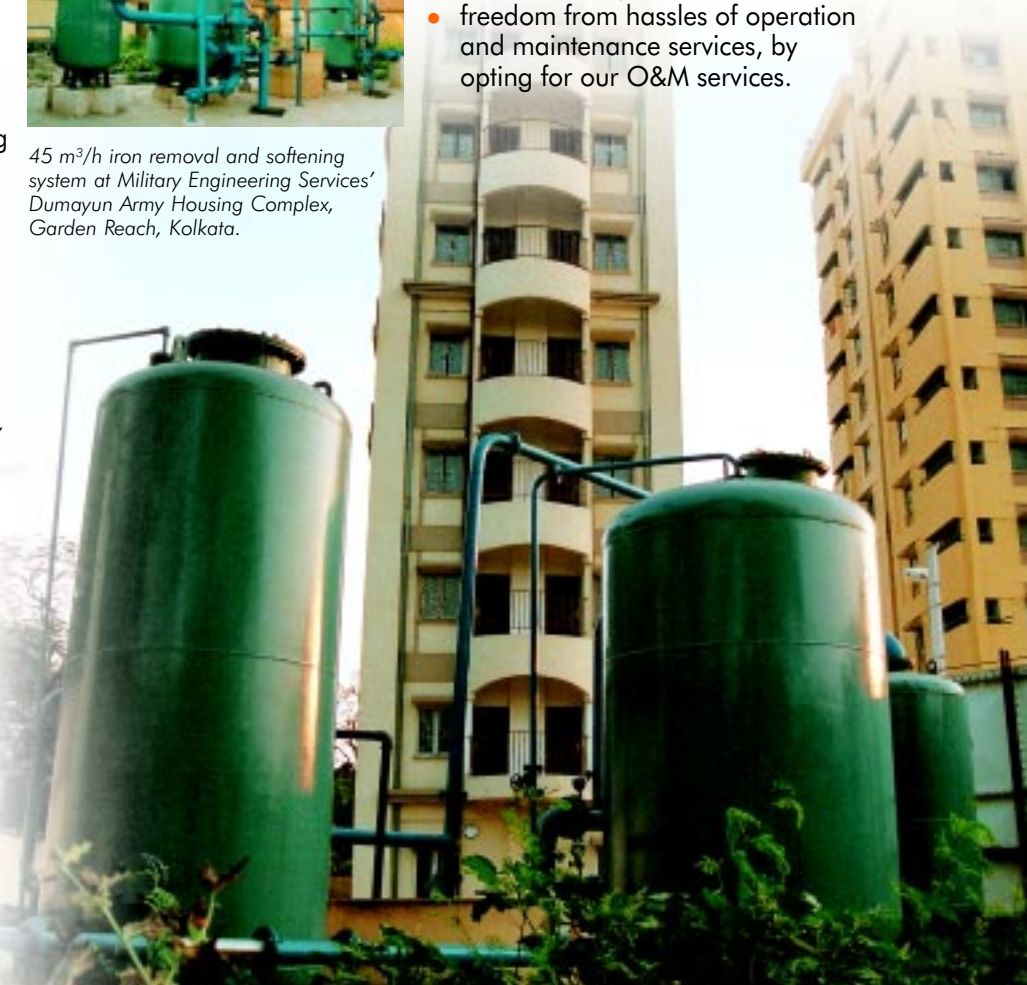


45 m³/h iron removal and softening system at Military Engineering Services' Dumayun Army Housing Complex, Garden Reach, Kolkata.

And this is why IEI's Water Management Solutions, customised to specific needs of residential and commercial complexes, are becoming increasingly popular. These include point-of-use drinking water purifiers as well compact, centralised drinking water systems that can turn borewell water soft and potable (because of its high levels of calcium and magnesium salts, borewell water requires softening as well as further RO (reverse osmosis) purification before it is used for drinking or cooking). IEI's compact, modular, sewage treatment & recycle systems too are much in demand – using advanced treatment processes, they enable saving of upto 60% fresh water as the treated, recycled water can safely be used for toilet flushing, gardening and car washing.

Thus, with IEI's water assurance solutions, building complexes are assured of:

- safe and pure water for drinking and cooking,
- soft water for bathing and washing clothes,
- clean and crystal clear swimming pools,
- protection against water shortages with water recycle,
- freedom from hassles of operation and maintenance services, by opting for our O&M services.





At Bengal Ambuja's City Centre Multiplex, Salt Lake, Kolkata – eastern India's largest mall, designed by Charles Correa, centralised treatment plant comprising iron removal and softening of 36 m³/h capacity. In addition, a drinking water RO system of 1 m³/h with complete pretreatment.



Installed at premier housing properties in Kolkata – iron removal filtration system, 8 m³/h, for Mani Group, and iron removal and softening system, 8 m³/h, for MK Jalan Properties.



5 m³/h RO system for drinking and other applications, caters to the 180 flats in Shakti Apartments, Dwarka.



For drinking water, RO system of 0.6 m³/h capacity, with full pretreatment consisting of filtration, iron removal, activated carbon, softening and ultra violet sterilisation, at Defence Complex, Hastings, Kolkata.



25 m³/h iron removal and softening system at Middleton Mansion Housing Society, Kolkata.



At Indian Navy's INS Netaji Subhas, Hastings, Kolkata, RO system of 0.6 m³/h capacity for drinking water, along with full pretreatment consisting of filtration, iron removal, activated carbon, softening and ultra violet sterilisation.



15 m³/h iron removal and softening system at Tolly Residency Housing Society, Kolkata.

New generation packaged sewage treatment plant at S. Tech P. Ltd. call centre at New Delhi.

