

ION EXCHANGE WATERLEAU: One Stop Shop For Environmental Solutions & Services For Industries & Municipalities

Greater water demands and the increasing problems of environmental pollution as well as of industrial and municipal waste disposal call for an integrated approach of total environment management.

Ion Exchange Waterleau Ltd., a joint venture of Ion Exchange (India) Ltd. and the Waterleau Group, Belgium offers a complete portfolio of advanced environmental solutions and services for industrial, infrastructure and municipal applications. Technology solutions encompass water, liquid & gaseous effluents, solid waste & bio-solids and renewable energy, while services include consultancy, turnkey contracting, O&M and BOOT projects.

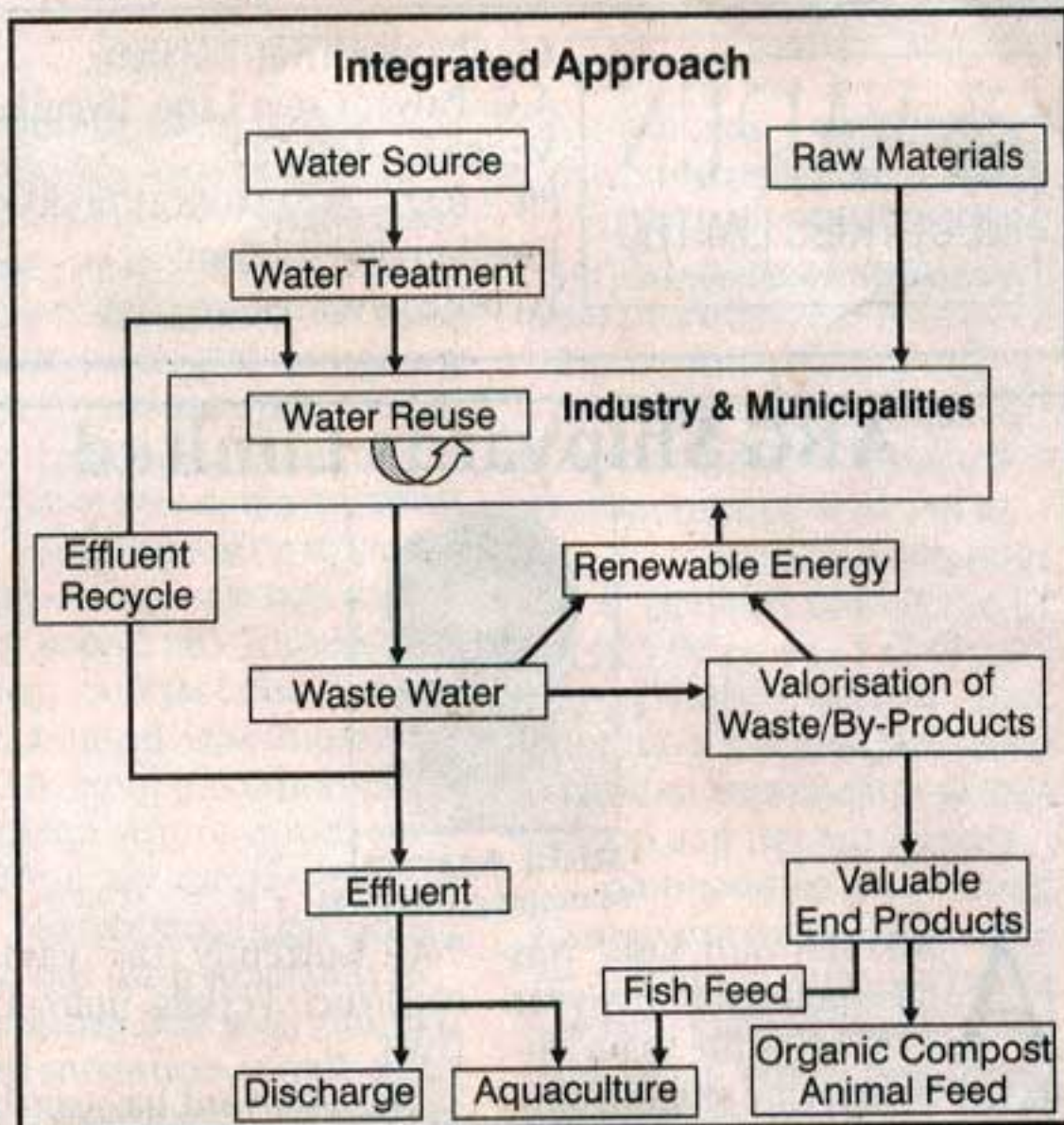
Waste Water Treatment & Recycle:

Advanced aerobic technology combines advantages of conventional and sequencing batch reactor systems and, with autonomous monitoring and controlling system, treated water is continuously of highest quality, allowing

for safe effluent discharge and stable process performance. No external clarifiers, sludge rakers, recycle pumps/screws/piping are needed and reactor volume is always used for 100%. Additionally, the system can be easily controlled & treatment efficiency is very high (80-95%).

Anaerobic technologies include UASB (upflow anaerobic sludge blanket), with high removal efficiency (70-90%) of organic matter, particularly suited to treat highly concentrated waste waters such as from brewery, distillery, tannery, paper, fermentation and pharma industries. The advantage lies in high COD removal efficiencies with concomitant production of energy-rich gas which can be converted into heat and/or electricity, while producing very limited amounts of excess sludge.

Waste water recycle technologies include advanced membrane processes such as the membrane bio-reactor which



produces an effluent that is extremely pure and appropriate for immediate reuse, the fluidised media reactor and packaged sewage treatment systems.

Waste & Bio-Solids Treatment:

Indirect convective drying technology is the safest way to dry biosolids due to the very low oxygen vapour atmosphere in the dryer. Ion exchange offers evaporation capacities ranging from 300 kg/h to 14000 kg/h. Integrated treatment of the vapour stream is included. It can produce partial or complete drying with dry solid content between 25-90%, and conversion into hard, dust free granules for safe disposal as non-hazardous solid waste or for use as fuel. A complete range of combustion technologies are offered for the ultimate treatment and thermal valorisation of solid, liquid and

pasty wastes of industrial sludges and slurries. Biogas generated from waste treatment processes can be used in biogas engines to produce electricity, in brewery boiler system (steam production) and hot water producing boilers.

Gaseous Treatment: Flue gas treatment plants are offered in combination with drying and/or combustion technologies. Comprehensive process knowhow combined with selected flue gas cleaning technologies enable compliance with stringent emission limits. Gaseous treatment using advanced thermal and catalytic oxidation processes enables control of odour from municipal/effluent treatment plants, NOx and dioxin abatement, and removal of VOCs generated by solvent using/producing processes.

Water Treatment:

Technologies encompass process and drinking water treatment - clarification, filtration, ion exchange, membrane separation (micro/ultra/nano filtration & reverse osmosis), desalination, electrodeionisation, disinfection & ozonation as well as removal of iron, nitrate, fluoride and arsenic.

For more information, contact Ion Exchange Waterleau Ltd. on Tel: 022-2762 6831/2/3/4 Fax: 022-2762 6839 E-mail: iewl@ionexchange.co.in

Introducing Clear-Ion Range of Services & Supplies

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