



Our Esteemed Clients

Industrial				Municipal			

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MEP PROJECTS & ENGINEERING SERVICES LIMITED

A 100% wholly owned subsidiary of Voltas Limited
 A **TATA** Enterprise

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SHAPING THE FUTURE OF SUSTAINABLE WATER



TRUSTED PARTNER FOR COMPLETE WATER SOLUTIONS

OVERVIEW

Realizing the importance of environment sustainability, Voltas entered the field of Pollution Control in the early 70's itself. In 1977 a collaboration agreement was entered into with Ames Crosta Babcock of U. K. for wastewater treatment know how.

INTRODUCTION

UMPESL – Water business – 100% subsidiary of Voltas Limited is one of the leading EPC companies in India with proven track record of over 4 decades. This business segment provides comprehensive Water-Management solutions through its concept to commissioning capability involving Design, Detail Engineering, Procurement, Construction, Installation, Project Management, Commissioning and O&M services. Our integrated approach, adaptability, and dedication to quality have placed us at the forefront of infrastructure development in India & globally.

ING A TER RROW

PROCUREMENT & CONSTRUCTION

All of the items procured for the project are inspected & tested as part of the quality assurance process. Civil construction activities are done under strict supervision and approved drawing.

OPERATIONS & MAINTENANCE

Our dedicated Operations & Maintenance (O&M) team serves industrial facilities, mainly iron and steel plants, Municipal Sewage Treatment Plants (STP) and Storm-water Pumping Stations. Our main objectives are to reduce operating costs, sustain quality control, ensure equipment reliability, and maximize plant uptime.

Our best practices include quality monitoring, asset management, energy conservation, and preventive predictive maintenance, with focus on safety and cost.

MARQUEE PROJECTS STEPS TO SUCCESS



★ ZLD Plants & ETP - BNPM, Mysore



★ RWSS - Sundargarh - Pump House



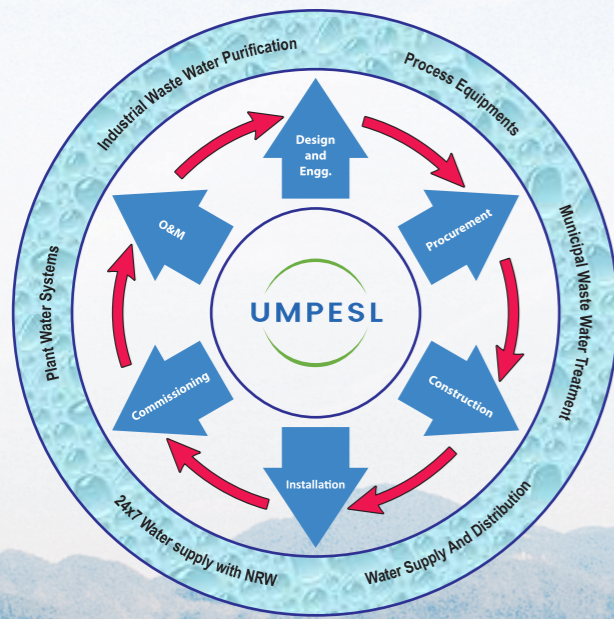
★ UPJN- Agra - WTP Belt Filter Press



★ RWSS -Rairakhol



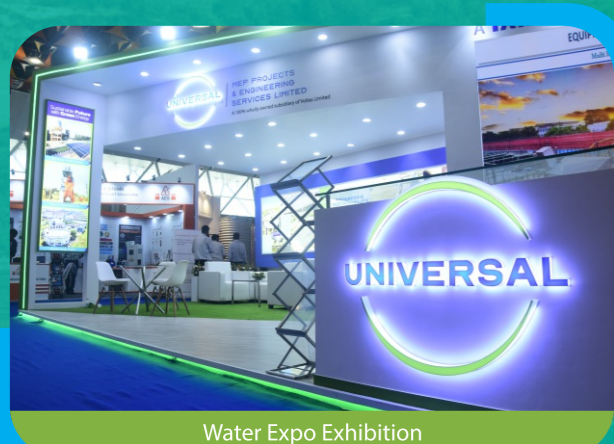
★ 36 MLD Raw Water Plant & 28 MLD Ash Recovery System _ KPCL Bellary



BUILD SMART TOMO

SMART WATER INFRASTRUCTURE

UMPEL is a leading EPC solutions provider with comprehensive domain knowledge, diverse infrastructure, and on-ground experience. Our Smart Water Infrastructure offers a range of solutions for smart city development. Our integrated design and build capability ensure that infrastructure built today is scalable in line with smart city requirements to enable urban communities, avail the benefits of sustainable development.



Water Expo Exhibition

ENGINEERING TEAM

Our team covers the full spectrum of engineering disciplines to ensure all deliverables of a project can be completed in house. Our typical project team is structured with a single window solution between the client and UMPEL for quick, clear communication and seamless integration. All engineering judgments, decisions and recommendations are supported by scientific data & calculations.

The plant is modeled using latest software's WaterGems, AutoCad Plant 3D, Revit, Etap, Dialux that enhance system performance and maximize efficiency. We offer total engineering solutions with expertise in the fields of hydraulics, fluid mechanics, process technologies and structural design covering process, civil, mechanical, electrical instrumentation, control and automation.



Pretreatment at WTP- Bhandup complex

ABOUT US

With diverse expertise in water treatment in India, UMPEL is today recognized as a leading complete solution provider with a wide range of solutions for water, wastewater treatment, and waste to energy. Every milestone we have crossed has provided us with experience that we value and has motivated us to become one of the leading companies amongst multiple government departments, state governments and civic agencies - ULB's

Leveraging our rich industry-specific experience, we commit to providing innovative products coupled with cost-effective ideas for Water Treatment to our clientele meeting their requirements with economizing cost & maximum performance benefit.



COMPREHENSIVE WATER TREATMENT SOLUTIONS

Water, one of the most vital sectors in the world today, calls for comprehensive technological & infrastructure solutions.

Our Water Management Business Division provides complete solutions, specializing in turnkey execution, operation and maintenance, in-line with maximum resource utilization, sustainability, & eco-friendly solutions with a focus on water conservation, resource optimization, and project management. We are the preferred Water Treatment, Equipment and Technology provider to the following:

01

Municipal Segment

02

Industrial Segment

KEY OFFERINGS

- ✓ EPC for Industrial Water / Wastewater / Effluent Treatment (ETP) / Recycle
- ✓ Sewage Treatment Plant (STP), I & D Work, Storm Water Drain Networks
- ✓ Drinking Water Distribution and supply to rural villages
- ✓ 24x7 Water Supply Scheme, NRW Reduction
- ✓ Equipment Manufacturing / Revamp/ Retrofit
- ✓ Utilities (O&M)

TREAT
YOUR
WATER RIGHT!



BUILDING PARTNERSHIPS
CHANGING LIVES
HAR GHAR JAL - JJM
Drinking Water Supply to Rural Household.

RWSS - ODIHSA

- Executed Turnkey projects in Puri, Sambalpur, Deogarh, Dhenkanal and Sundergarh districts providing drinking water supply to house hold of about 11,90,000 inhabitants.
- Scope consists of River intake - Jack well, WTP/CWR, ESR's and Pipe line net work of about 8500 kms and house hold water tap connections (FHTC).



SWSM - UTTAR PRADESH

- Executed Turnkey projects AYODHYA, SULTANPUR and DEORIA districts covering about 725 villages providing drinking water supply to house hold of about 12,50,000 people.
- Scope consists of tube well treatment, disinfection through silver ionisation and distribution through ESR and pipe line network of about 6000 kms.
- Through separate tap connection drinking water is supplied to each house hold.



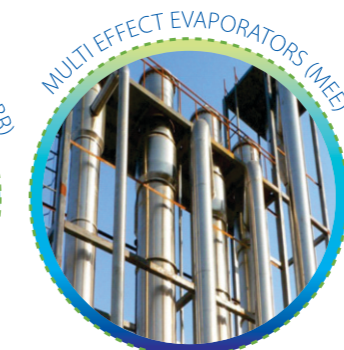
STATE-OF-THE-ART WASTE WATER & SEWAGE TREATMENT PLANTS

UMPESL's wastewater business is a Total Solutions Provider and a forerunner in integrating modern technologies in every area of wastewater spectrum including Collection, Interception, Treatment, Recycling, Resource Recovery and Reuse.



OWSSB- Diesel generator based Storm Water Pumping station

We work on recovering nature's most valuable resource from wastewater and has developed customized solutions integrating an array of technologies ranging from the age-old techniques to the most advanced state-of-the-art technologies like:



HPCL-Vizag ..DMF/ACF equipment's



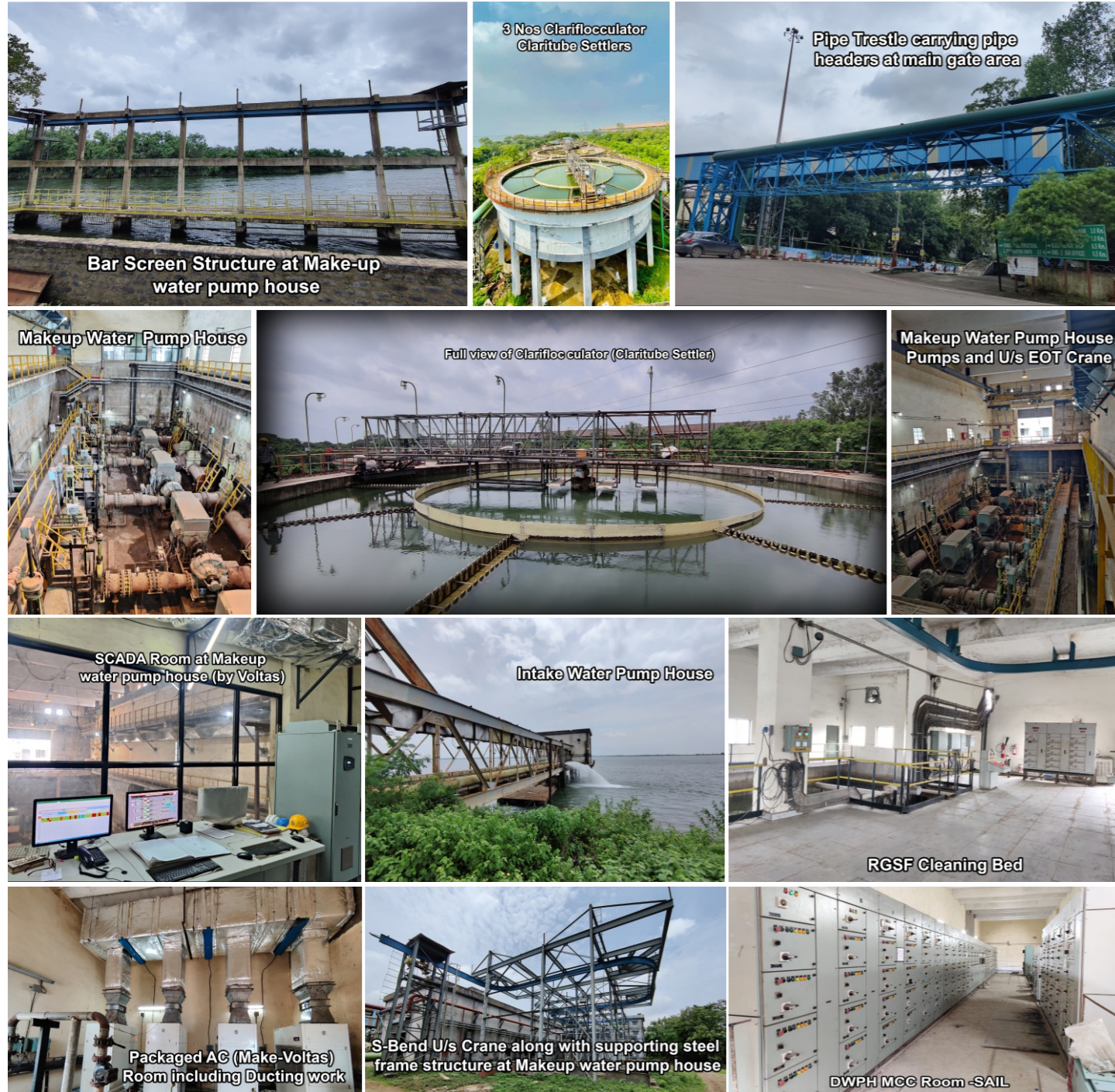
Arsenic Removal Plant - KMD -Kolkata

We conserve water through recycle of waste water and recover valuable products for reuse, achieving zero liquid discharge objectives, thus giving our customers a good return on investment while protecting the environment. Having capabilities in pumping water solutions we have always been in forefront of storm water discharge solutions.

Highlights:

- Delivered key infrastructure projects under the Namami Ganga Mission under NMCG with SBR Technology. Drinking water supply project under State Water & Sanitation Mission (SWSM)
- Completed Storm Water Drainage Network & Pumping Stations-Sewerage and Sanitation Board, Cuttack
- Executed projects in SAIL-Bhilai/Bokaro/Rourkela, and Tata Steel -Kalinganagar / Jamshedpur

SAIL - BHILAI STEEL PLANT WATER SYSTEM PACKAGE



ZLD PROJECT - PAPER INDUSTRY



WATER TREATMENT DISTRIBUTION AND SUPPLY

We provide conventional water treatment plant with our proprietary equipments for clarification, filtration, disinfection to meet critical quality requirements for various uses all across the country. Also caters to WTP based on Membrane Filtration System.



CWR - Pump House



UPJN - 144 MLD - Filter House



Highlights:

01

Successfully executed several raw water treatment plants, catering to both municipal and industrial sectors, with capacities ranging from 36 to 225 MLD

02

Executing 50MLD -WTP in GIFT city - Ahmedabad based on UF-Technology on Complete turnkey basis.

UMPESL's Water Supply & Distribution business caters to the requirements of providing quality potable water through end-to-end solutions from the source through water treatment, construction of pump-houses and reservoirs, transmitting through pipelines and distributing to end users, as per the government flagship scheme 'Har Ghar Jal'. We also provide plants for iron/ arsenic fluid removal to affected areas (Bihar / West Bengal)to purify surface and ground water making it suitable for drinking using various technologies:

CLARIFIER



STORM WATER PUMPS



REVERSE OSMOSIS



ULTRA-FILTRATION MEMBRANE



CHLORINATION

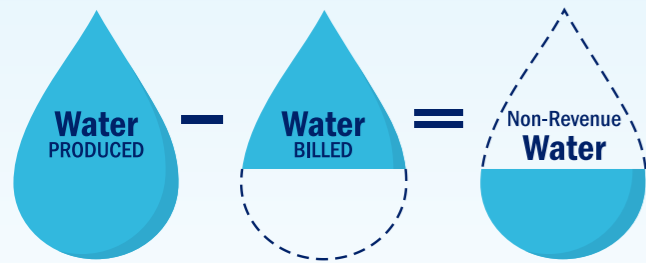


SILVER IONIZATION



24 x 7 WATER SUPPLY WITH NRW REDN PROJECT

- Turnkey Project for 24x7 water supply to 17 districts of Uttar Pradesh under AMRUT-2 Scheme - UPJN-urban group is under execution.
- Broad scope involves Rehabilitation of existing Infrastructure and facilities, establishment of DMA, Installation of AMRS, reduction of NRW and UFW during O+M Period by 5 years.

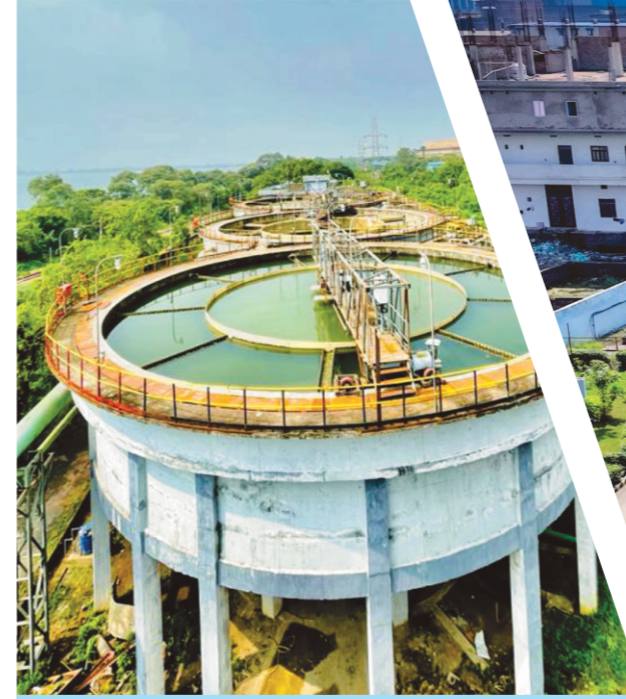


How Much of Your Water is Non-Revenue?

Average of **24%** Per year.



Automated Water Meter AMR in supply line



SAIL 40 MLD WTP & Distribution Network, Bhilai



Namami Ganga 37 MLD STP with Pumping Station, Bihar



KPCL Pre Treatment Raw Water 36 MLD & Ash Recovery System, Bellary



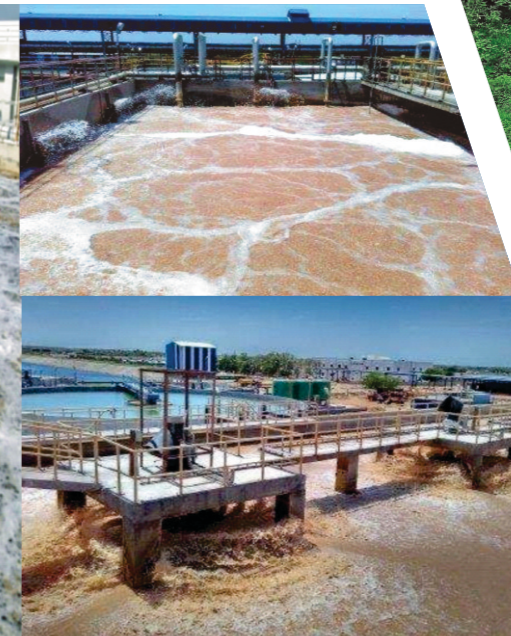
30 MGD Integrated Water Supply system for Arsenic affected Areas, Bengal



Gift City WTP & STP,
Gujarat – Ahmedabad



Bihar Madhepura drinking water project (with iron removal system)



Effluent Treatment Plant – 9MLD, TNPL



Storm Water Drainage Network
– Sewerage & Sanitation Board,
Cuttack