

CONCEPT TO REALITY

**An innovative and reliable partner for
engineering services**

**“DELIVERING ENGINEERING
THROUGH EXCELLENCE”**

WABAG - The company.

Overview



Wabag Engineering Services (WES) is a business unit of VA TECH WABAG, a multinational company with 90+ years of global experience in water and waste water treatment. Wabag has its offices in more than 20 countries with over 2000 employees.

WABAG realigned its structure into four clusters-India, Europe, Middle East & Africa and LATAM.

History



The water technology sectors of the renowned industry groups VA TECH (Austria), SULZER (Switzerland) and BABCOCK (Germany) were combined to form one group of companies.

Milestones

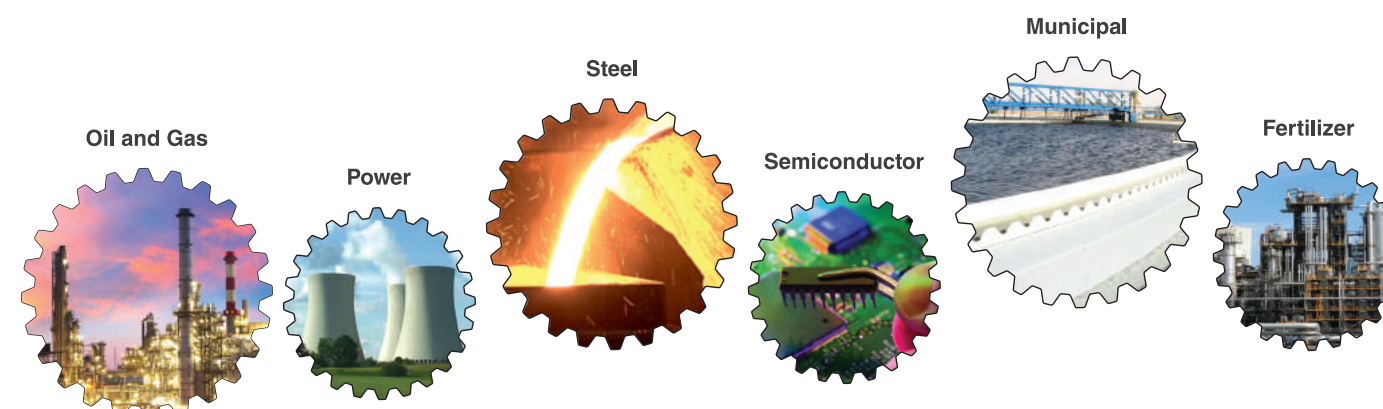


1924 : Foundation of WABAG Wasserfilterbau, Breslau
1987 : Acquisition of 100% of WABAG by Deutsche BABCOCK
1996 : VA TECH acquires the environmental division of SULZER Chemtech
1999 : VA TECH acquires WABAG group from Deutsche BABCOCK – formation of VA TECH WABAG GmbH
2005 : Merger between VA TECH and SIEMENS, sale of WABAG India
2007 : WABAG India acquires WABAG Austria group from Siemens
2010 : VA TECH WABAG Ltd. goes public (NSE, BSE)

Diversified Industries



WABAG offers solutions to municipalities and a broad spectrum of industries across global markets.



**FLOWING
WITH EXPERTISE &
COMMITMENT
FOR OVER
90 YEARS**

QUALITY MANAGEMENT

Water engineering plants are complex installations, which play a significant role in the protection of the environment and the natural resource water. It is precisely for these reasons that high levels of availability and the best possible security with regard to plant operations are of such importance. We offer structural safeguards through the implementation of the WABAG quality management system, which conforms to international standards (ISO 9001:2008).

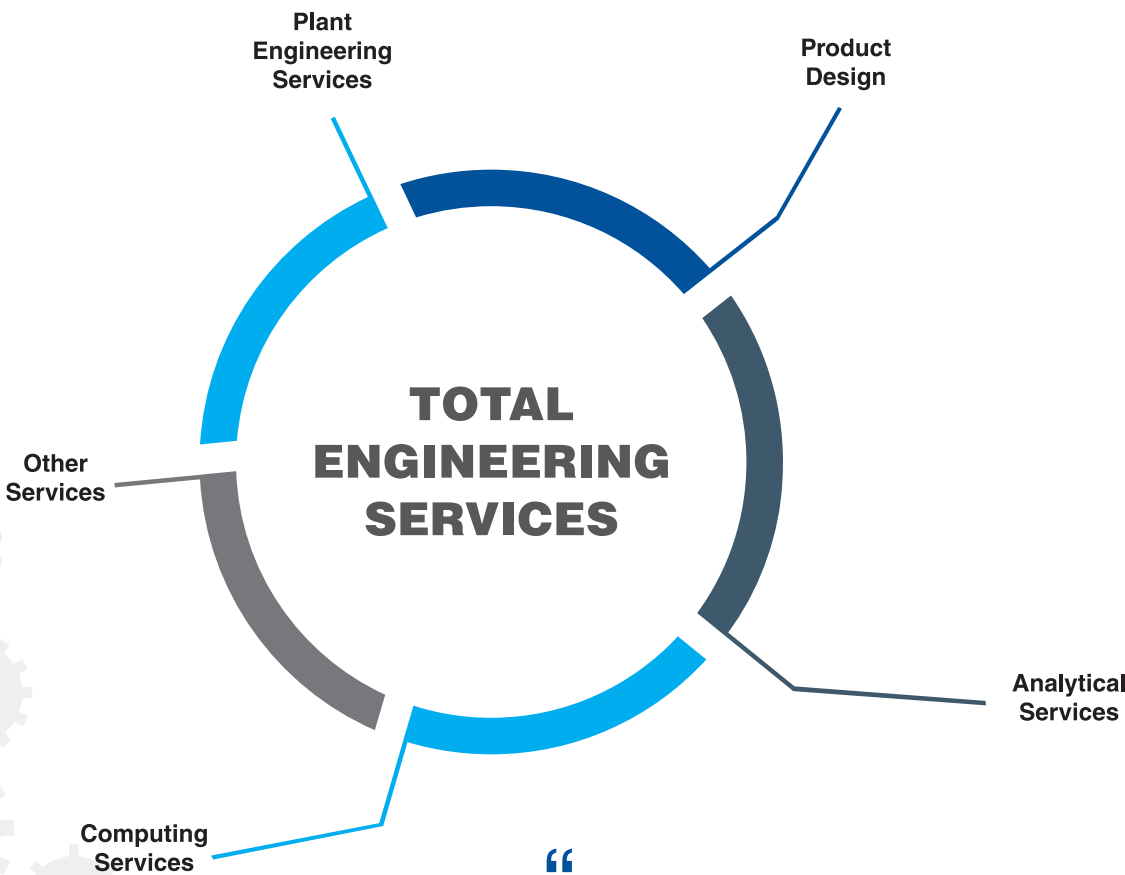
WES - Part of multinational group

WES is a business unit of VA TECH WABAG, a multinational company with 90+ years of global experience in water and wastewater treatment. WABAG has its offices / execution centers in more than 20 countries with over 2000 employees.

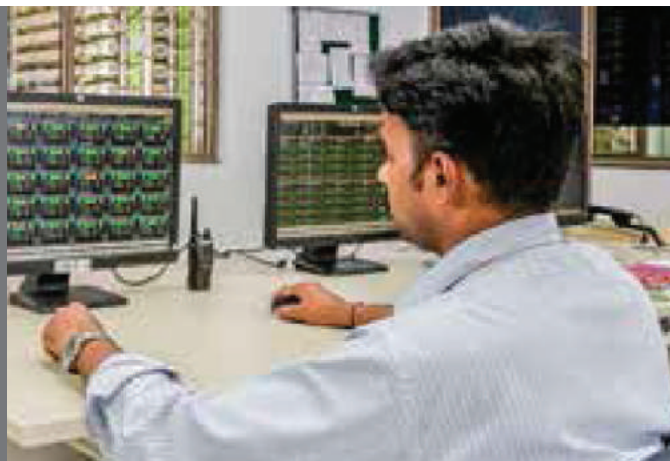
WES has engineered all types of water and wastewater treatment systems like effluent treatment, sewage treatment, raw water treatment, desalination, high pressure condensate polishing, demineralization, ultra-pure water treatment, pumping stations, filtration units, containerized units & spent caustic treatment using different types of technologies for various industry sectors.

HEALTH, SAFETY AND THE ENVIRONMENT (HSE)

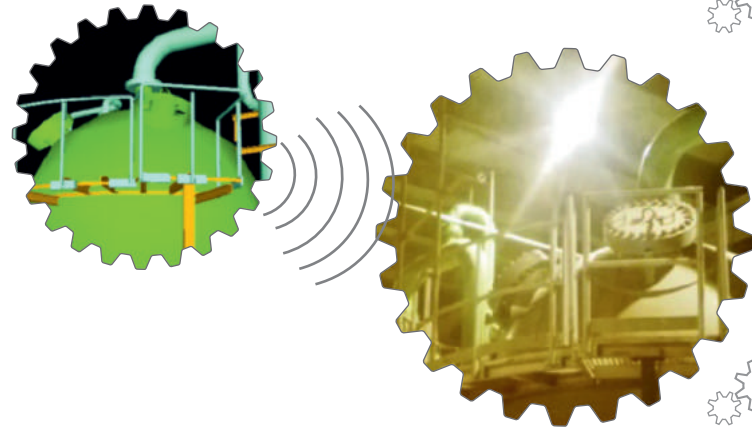
At the same time, the environmental protection plants to be operated are also of an industrial nature. Therefore, they demand great care and the appropriate precautions in relation to the safety and health of the personnel. WABAG is well aware of this responsibility and has supplemented its management system with the areas of health, safety and the environment (HSE). The highest standards in these fields have been secured by successful ISO 14001:2004 and OHSAS 18001:2007 certifications.



“ Competent partner with a sound technological background and the potential needed to dependably solve any water engineering task.”



CONCEPT TO REALITY



Concept to realization

WES has successfully brought engineering concepts to reality for specialized jobs [spherical high pressure condensate polishing units, AVGF (auto valve less gravity filter), sandwich mixed bed exchanger, ultrapure water system etc.].

WES has conceptualized and implemented value added custom built engineering software for plant engineering.

WES's investment in high end software ensures the quality and timeliness of the engineering deliverables.

Innovative ideas



We believe in the power of innovation and invest in technologies that point the way to the future. As a progressive company, we constantly make every effort to develop and implement inventive solutions to the benefit of customers.

WES deliver its services with innovative ideas of its highly experienced & skilled human resources through its well defined systems.

WES's collaborative approach and culture of performance helps it in creating value for the customer.

Excellence in engineering

WES always take challenges with its highly passionate and competent team who has clarity in all communications and ownership in tasks taken along with the flexibility to adapt to any situation leading to excellent results.

ENGINEERING EXPERIENCE

WES provides services for diverse industries

WES brings together its technically strong, highly capable, agile and customer focused team to offer sustainable engineering solutions for a better life.



Municipal



Petrochemicals



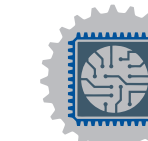
Mineral



Pharma



Steel



Semiconductor



Power



Manufacturing



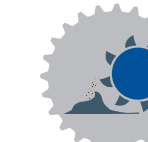
Desalination



Oil and Gas

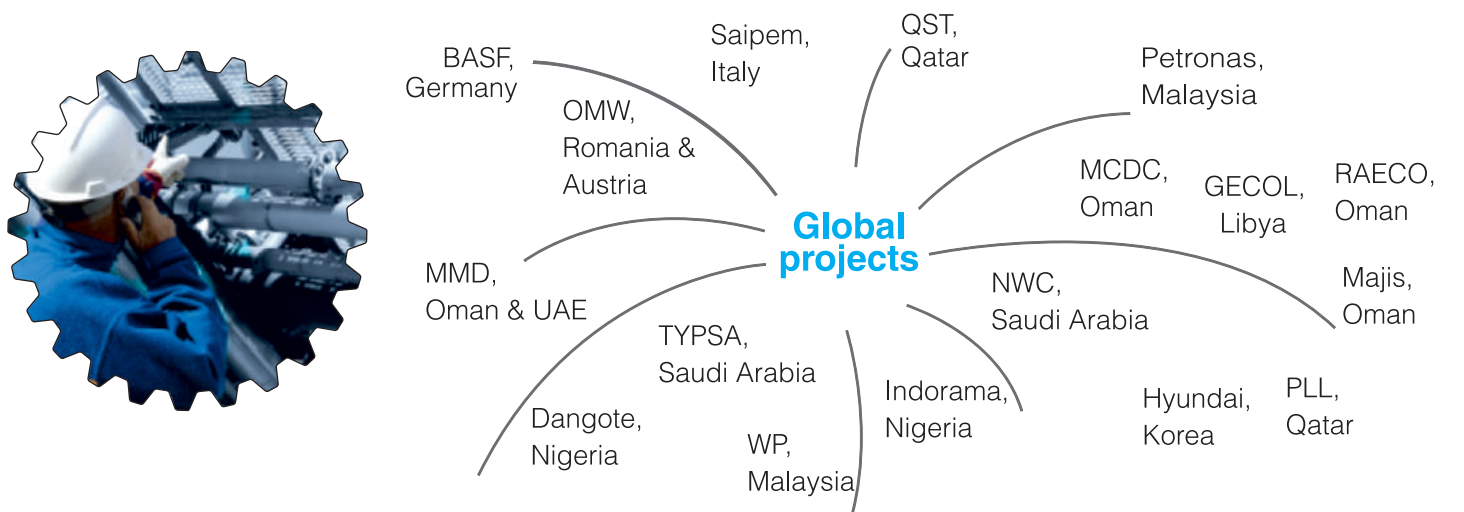


Chemical & Fertilizer

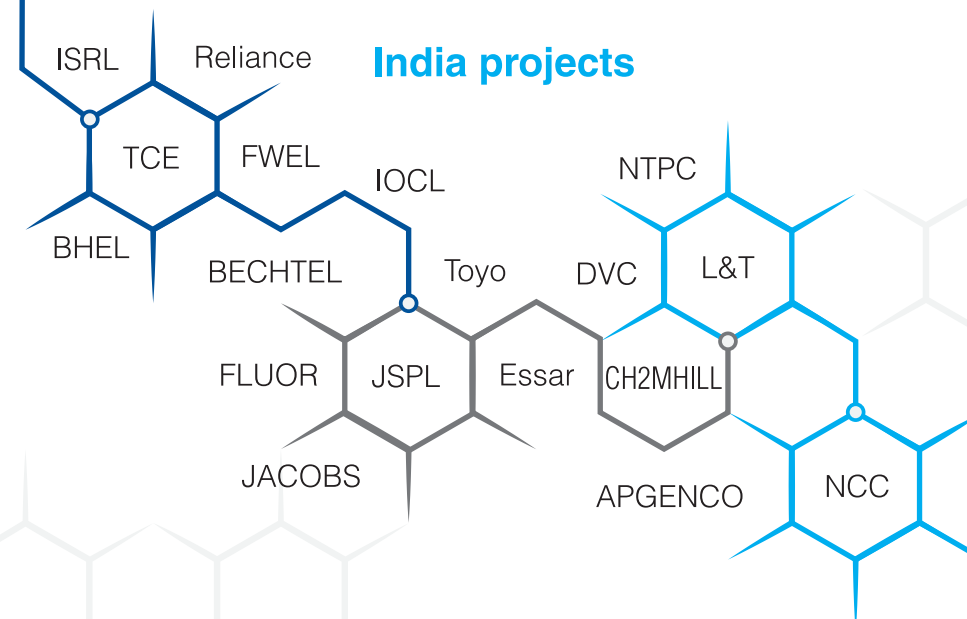


Mining

Some of our Clients / Consultants



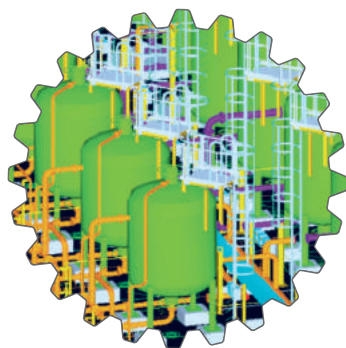
India projects



OUR SERVICES

Plant Engineering Service

- Front end engineering design
- Mechanical engineering
- Piping engineering
- Controls and instrumentation engineering
- Electrical engineering
- Civil engineering
- Pumping systems design
- Process simulation
- Plant remote monitoring support



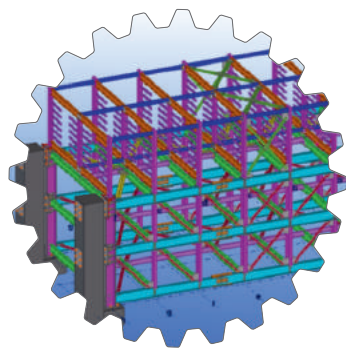
Product Design

- Pressure vessel design
- Tank design
- Skid design



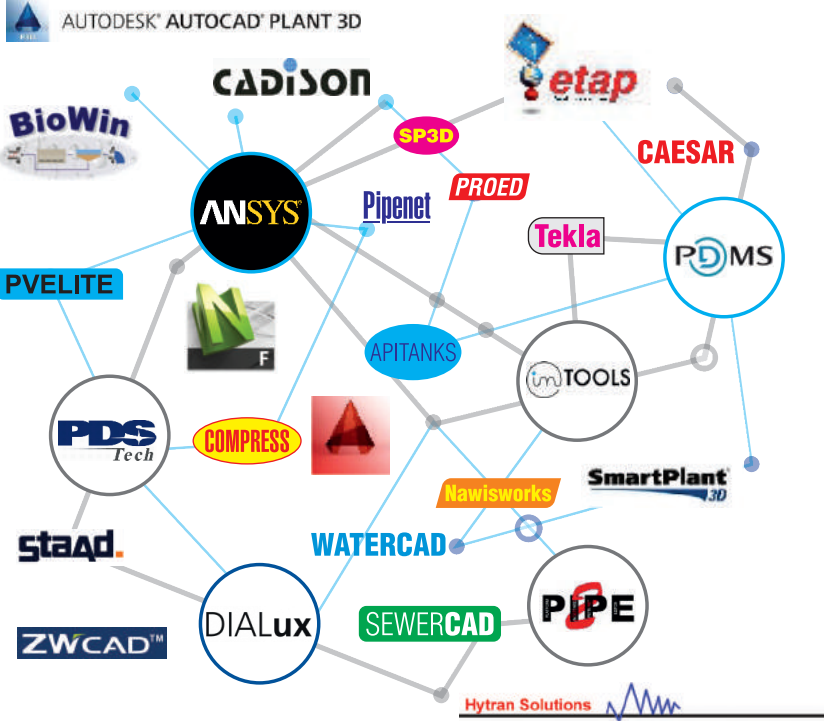
Analytical Services

- Structural and analysis
- Stress analysis
- Surge analysis
- Computational fluid analysis



OUR SERVICES

Software



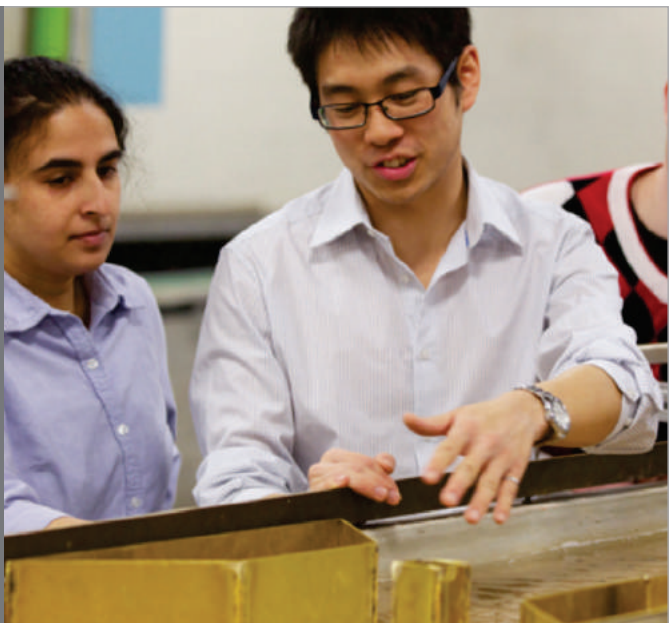
Computing Services

- Industrial Automation
- Software Development



Other Services

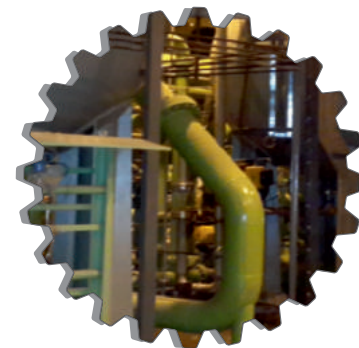
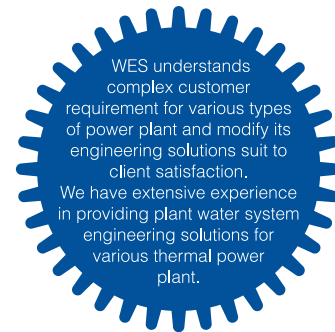
- Procurement Assistance
- Asset optimization, asset efficiency improvement and upgradation studies, Long Term Asset Plan (LTAP)
- Energy audit



PROJECT PROFILES



We partner with clients to power the world



Super critical thermal power station, India

High pressure condensate polishing units are required in super critical power plants.

High pressure design requirement, hydraulic transfer of resins for external regeneration and significant mechanical design are the major challenges for engineering of such plants.

WES innovatively met the overall design requirement with special emphasis on manufacturability of the vessels, both quality and cost wise.



WES engineer's projects which requires meticulous co-ordination



PetroBrazi Refinery ETP, Romania

The Refinery ETP of OMV Petrom SA in Brazi, which has a capacity of 30,000 m3/d, has undergone a comprehensive refurbishment and technological optimisation and upgrading programme. Wabag updated existing plant to state-of-the-art ETP. Main elements of modernisation of existing wastewater treatment plant were:

- Refurbishing of mechanical pre-treatment
- Rehabilitation of chemical treatment step
- Upgrading of the biological treatment stage
- Overhauling of dephenolisation plant



PROJECT PROFILES

When global refineries need water engineering, we'll be present there



WES has global experience in completing water engineering with customer's desired quality and on time. We have engineered complex projects for oil and gas industries.

We provide services for upstream as well as down stream water management systems.



Refinery project, Paradip, India

WES provided engineering solutions for grass root refinery project in Paradip.

Various packages involved are effluent treatment, water recovery, landfill leachate, hard COD management, spent caustic treatment.

Our consistent innovation, design capabilities and technology leadership have enabled us to build this extensive wastewater treatment facility.

We always adapt to new technology



WES understand client's problem and suggest the right solution.



Desalination, Al Ghubra, Oman

Al Ghubra 191,000 m3/d is one of the largest drinking water treatment plant in the Sultanate of Oman. Project was to produce drinking water from Sea Water. It consisted of various systems such as intake system (1.6 Km inside the sea), followed by Pre- treatment using Dissolved Air Flotation, Dual Media Filtration & Cartridge Filtration. Post treatment was done using Reverse Osmosis System followed by Remineralisation to get the Product water.



A FEW MARQUEE PROJECTS



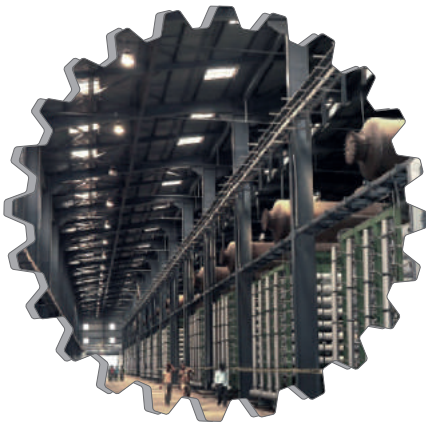
Majlis SWRO, Oman
Capacity: 24,000 m³/d



Industrial Park Ujams, Windhoek. First
industrial Reuse & Wastewater MBR
plant in Namibia.
Capacity : 5,175 m³/d



Complete water system for
2x800 MW Supercritical Thermal
Power Plant at Krishnapatnam,
Nellore district, Andhra Pradesh



Nemmeli WTP, Chennai, India:
Seawater desalination plant,
Capacity: 100,000 m³/d



Power plant water system
(pretreatment, RO-DM, SSF,
chlorination system) India

A FEW MARQUEE PROJECTS



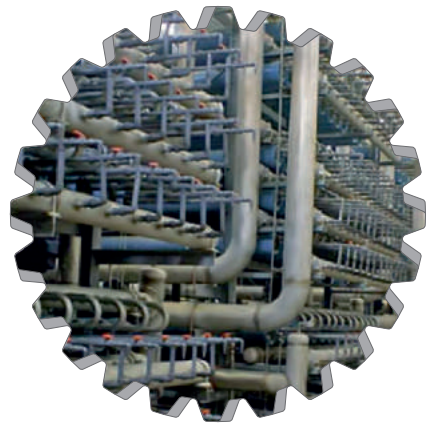
Effluent Treatment Plant,
Panipat Rentry, India
Capacity: 20,900 m³/d



Oran, main STP, Algeria,
Capacity: 271,000 m³/d



Bandar Imam, Iran:
Complete water supply system
for a petrochemical complex
Capacity: 168,000 m³/d



Adana West &
East WWTPs, Turkey
Capacity: 250,000 m³/d - West
210,000 m³/d - East



Reliance Industries, Dahej
Largest recycling facility for
PTA & PET for Dahej
manufacturing plant in India
Capacity: 32400 m³/d



CONCEPT TO REALIZATION



WES team develop concepts, design it and ensure realization through meticulous systems, software and quality management system.
Customer's certificates of appreciation validates the valuable contribution given by WES team to bring concept to reality

Effluent Treatment Plant, Reliance Industries Limited, India



CONCEPT TO REALIZATION

Demineralization plant
India Synthetic Rubber Limited, India



Desalination Plant, Majis Industrial Service, SAOC, Sohar. Oman



WABAG WORLDWIDE OFFICES

WABAG group has global presence in more than 20 countries



Europe

Austria (Vienna)
Switzerland (Winterthur)
Germany (Zwenkau)
Czech Republic (Brno)
Romania (Bucharest)
Spain (Madrid)
Turkey (Istanbul)
Russia (Moscow)

Middle East

Iran (Tehran)
Saudi Arabia (Riyadh)
Oman (Muscat)
UAE (Dubai)

Africa

Algeria (Algiers)
Tunisia (Tunis)
Libya (Tripolis)
Egypt (Cairo)
Namibia (Windhoek)

Asia

India (Chennai, Kolkata, Pune, Delhi, Baroda)
P.R. China (Beijing, Macao, Hong Kong)
Singapore
Vietnam (Hanoi)
Philippines (Makati City)



What makes WES a preferred engineering service partner?

- **Technology portfolio:** WES has vast engineering experience in all types of water treatment technologies in various industry segments. Technology portfolio includes drinking water treatment, industrial and process water treatment, desalination of sea and brackish water, water reclamation systems, municipal wastewater treatment, industrial wastewater treatment and sludge treatment.
- **WES team:** Highly qualified, experienced and skilled human resources are with an eye for detailing. The know-how that we put into practice is based on more than 90 years of experience.
- **Quality through system oriented approach:** WES ensures quality through its extensive document controlling system, usage of standardized documentation, application of high end design and drawing generation software (including customized software to meet customer demand).
- **Global presence:** Presence in 4 continents and more than 20 countries with over 2000 employees. This multinational experience ensures an understanding of various local needs to cater towards client requirement.
- **Quick turnaround time:** WES with its years of experience offers very quick turnaround time in engineering solutions.
- **Engineering practices:** Hands on experience with international engineering standards (ASME, ASTM, API, BS, ISO, IEEE, IEC, IS, DIN, etc.) and good engineering practices. It is also supported by our in-house R & D centers in Austria, Switzerland and India.
- **One stop solution:** WES offers all types of engineering services under one roof.



“WES's collaborative approach and culture of performance helps it in creating value for the customer.”

WES adds value to customer at each stage of engineering deliverables by satisfying the following objectives:

- Construction and O&M friendly design.
- Interface integration of multidisciplinary documentation.
- Meeting international standards of quality.
- Delivering engineering within agreed time schedule.
- Adequacy of engineering documentation.



An innovative and reliable partner
for Engineering Services



QUALITY, ENVIRONMENTAL, HEALTH & SAFETY CONSCIOUS



ISO 9001:2008



ISO 14001:2004



OHSAS 18001:2007

WABAG group conforms services to quality management system, environmental system, health and safety norms.





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