



الخرّيف لتقنية المياه والطاقة
Alkhorayef Water & Power Technologies



شركاؤكم
في النجاح

Success through
partnership

Alkhorayef Group

Alkhorayef Group has been building a legacy of integrity and quality through its diversified business ventures since 1957. Our commitment to excellence has led to our success in the Kingdom of Saudi Arabia and the rest of the GCC region.

We have come a long way and are continuously growing our international presence. As of date, Alkhorayef group is operating across 40 countries and 6 continents. We plan to secure a strong market position in the global arena and thus be able to reach and provide solutions for our clients and consumers. Alkhorayef Group takes pride in being deeply rooted in the farming sector. We have engineered an array of sophisticated businesses that supply the market with high quality pumps, pipes, power generators and machinery covering major projects spread across several parts of the globe. Furthermore, we are engaged in and have become key players in agriculture, water, power and oil, as well as in the marine industry and in printing and paper that offers integrated solutions for the entire lifecycle of various projects and schemes.



Alkhorayef Water And Power Technologies Company

Since its inception, Alkhorayef Water & Power Technologies (AWPT) has developed into a leading EPC and O&M company in Saudi Arabian market with excellent track record in water, wastewater , infrastructure, electromechanical and heavy civil field. AlKhorayef Water and Power Technologies capabilities comprise full-scale and integrated capabilities in Engineering, Procurement, Construction, Start-up & Commissioning, and full scale Operation & Maintenance of all types of water and wastewater projects such as, Industrial & Domestic Wastewater Plants, Water Treatment Plants, Water Desalination Plants, water and wastewater pipelines & networks, electro mechanical works, heavy civil and critical infrastructure.

AWPT has a big fleet of specialized construction equipment and a versatile multi-disciplined workforce totaling over 3,000 employees.

AWPT's Entrepreneurial Leadership structured the company into two highly organized Business Unit (O&M for all range of water and waste projects and Turn Key EPC for Infrastructure, Industrial, Large Civil and Electro/Mechanical Projects) enabling efficient management and sufficient flexibility to dominate the market and expand regionally by focusing on client satisfaction, quality, and timely completion of projects.



Corporate Vision

Alkhorayef Water and Power Technologies vision is to become the regional leader “in Water & Power Industry” as an O&M and EPC contractor.

Corporate Mission

- Sustain continuity and growth of the company by improving skill sets across all levels and adopt strict code of professional conduct to meet the commitments to the satisfaction of Clients, Lenders, Employees and Shareholders.
- Develop and maintain quality management system, be the preferred contractor to the client, preserve our commitment to on-time project delivery and sustain high quality standards.
- Control the risks to meet Contractual and Financial Commitments.



Commitment to Health, Safety and Environment:

Alkhorayef Water and Power Technologies requires that all practical efforts be taken to provide a work environment that is free from recognized safety and health hazards. Accordingly, we are committed to achieving and sustaining a “Zero Accident Tolerance” policy through continuous improvement practices. Furthermore, we are dedicated to meeting and exceeding the expectations and requirements of our clients.

We utilize the following principles to implement our HSE management system:

Accountability: All employees and related parties working on AWPT projects are accountable for their actions to work safely and endanger their health and others’.

Responsibility: All employees on AWPT projects must share the responsibilities for the maintenance of a safe and healthy work environment. We ensure that our staff continues to be motivated and committed to meet the company’s targets and objectives.

Continuity: In order to ensure the highest industry standards, AWPT benchmarks its system with the industry leaders and continuously develops training programs for its employees and so promoting an atmosphere of continuous improvements.

Integrity: The Safety and Health aspects of this system are an integral part of our operations. No job is so important or unusual that it cannot be performed in a safe and healthful manner. For that purpose, risk assessment will be implemented. All management including supervisors are accountable to the top management as leaders and overseers of HSSE matters and shall provide proper working environment, working procedures and facilities as well as establish strong awareness throughout AWPT projects.



Quality Assurance and quality Management System

The policy of Alkhorayef Water and Power Technologies (AWPT) is to deliver products and services to the client in conformance with contract requirements; on time, and free of defect. For this purpose AWPT has developed and maintained a Quality Management System (QMS) covering engineering, procurement, and construction in compliance with ISO 9001:2000 standards. The ISO uses a Quality Manual, Quality System Procedures, and Quality Plans document.

Quality Manual:

The Quality Manual Includes:

- Quality Policy, objectives and the scope of the QMS.
- Documented Procedures and processes for managing our operations and activities are established in the QMS.
- Brief description of the interaction between the procedures of the QMS.

Quality System Procedures:

The Quality System Procedures are a compilation of interrelated and interacting procedures written to reflect the management system that we currently use. The corporate quality manual is applicable to all business units. Furthermore, the procedures are drawn out for use in developing the business unit quality plans.

Quality Plan:

In addition to QMS, AWPT develops quality plans specific for each project as per ISO 10005 (Quality Management: Guidelines for quality and/or environment management systems auditing) is carried out to ensure implementation of project plan. Project quality plans, work instructions and inspection and test plans spell out the requirements of the project and lays down which company procedures are to be used to program and control the works of the project.



Alkhorayef Water and Power Technologies Engineering Capabilities

Alkhorayef Water and Power Technologies' Engineering Division backed by fully integrated and multi-disciplined engineering team drawing upon over 30 years of company experience in multitude of challenging projects.

AWPT adopts latest cutting edge technologies to push the boundaries of creative, value added and competitive design. Our engineering team is disciplined and committed to provide the safest most efficient product while keeping in mind constructability and full compliance with client's requirement.

Alkhorayef Water and Power Technologies commitment to environmentally conscious and sustainable work practices:

Alkhorayef Water and Power Technologies committed to adopting the latest environmentally friendly practices throughout the life cycle of project execution from conceptual design, selection of eco-friendly components, construction, commissioning and ending up with Operation and Maintenance. AWPT mandate is to lead the conservation effort in Saudi Arabian market in order to preserve the kingdom's water and energy resources for a sustainable and prosperous future.



Our Main Sectors

1. Operation & Maintenance Sector

Alkhorayef Water & Power Operation & Maintenance Sector takes pride in having accomplished over 150 projects. We have become a leading provider of Operation and Maintenance (O&M) service to Water and Wastewater in the Kingdom of Saudi Arabia.

2. EPC & Construction Sector

Our strength lies in our ability to offer fast track turnkey solutions including infrastructure and electro-mechanical works for a wide range of water and wastewater infrastructure and heavy civil work projects.



Main Activities

EPC (Engineering, Procurement and Construction)

O&M (Operation & Maintenance)

- Industrial Waste Water Treatment Plants
- Domestic Waste Water Treatment Plants
- Desalination Plants
- Brackish Water Treatment Plants
- Water, Sewer & Storm Water Networks
- Pumping & Lifting Stations
- Main Transmission Pipelines
- Deep Water Wells
- Electro-Mechanical Works
- Heavy Civil Works
- Critical Infrastructures
- Environmental Services
- Full Scale Design & Value Engineering
- Conservation Services



Geographical Coverage





Projects | EPC



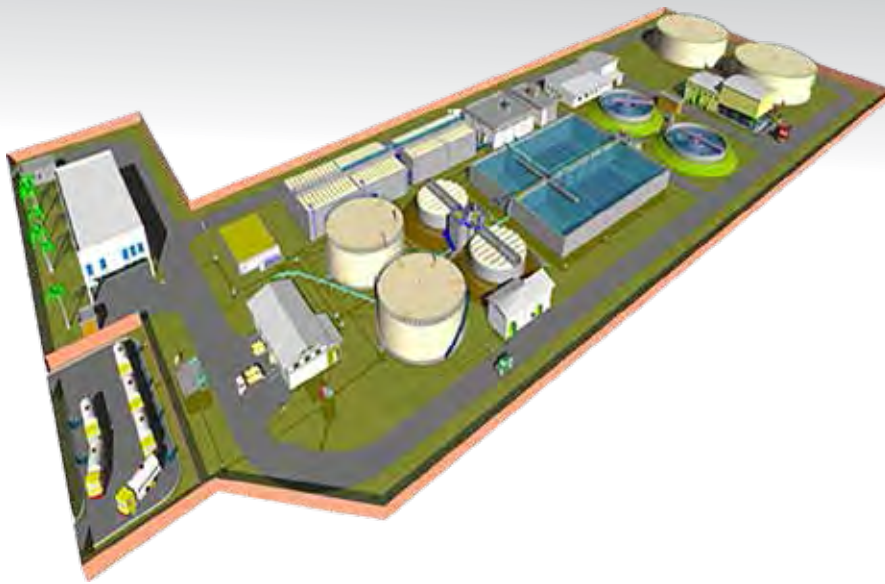
Riyadh Metro Project

Client :
Arriyadh Development Authority

The Riyadh metro is a rapid transit system under construction in Riyadh, Saudi Arabia. It will be the backbone of the city's public transport system with a total of 176 KM integrated with an -85kilometre (5 three-line bus rapid transit (BRT) network).

Project Scope :

Design, procurement, installation, rehabilitation and relocation of critical utility and infrastructure for ArRiyadh Metro Lines 5 ,4 and 6 totaling 72KM. Alkhorayef Water and Power Technologies is one of the premier multi-faceted EPC firm to successfully complete scope for metro on turn-key basis. Work involved coordination and managing multiple infrastructure owners and high profile stakeholders while completing all tasks on time.



Al Kharj Industrial Waste Water Treatment Plant

Client :

MODON – Saudi Industrial
Property Authority

Capacity : 10,000 m³/day

Project Scope :

Design, Supply, Construction, Installation,
Commissioning and O&M of a new Industrial waste
water treatment plant including:

1. Coarse and Fine Screens
2. Grit Grease Removal
3. Balancing Tank
4. Biological treatment (Air defused system)
5. Activated Carbon System
6. Sludge Treatment (Centrifuge)
7. Odor Control System
8. SCADA system



Al Kharj Road Waste Water Treatment Plant Phase II

Project	Al Kharj Road WWTP PHASE II
Capacity	100,000 m ³ /day
Client	National Water Company
Project type	EPC



Al Kharj Road Tertiary Treatment Plant Phase I & II

Project	Al Kharj Road Tertiary Treatment Plant PHASE I & II
Capacity	200,000 m ³ /day
Client	National Water Company
Project type	EPC



Al Kharj City Waste Water Treatment Plant

Project	Alkarj City WWTP
Capacity	30,000 m ³ /day
Client	MOWE
Project type	EPC



Khamees Mushit Waste Water Treatment Plant

Project	Khamees Mushit WWTP
Capacity	40,000 m ³ /day
Client	MOWE
Project type	Construction



Buraidah Sewer Network

Construction of sewer network which includes sewer lines, manholes and pumping stations to serve more than 16,000 houses at Five residential areas in Buraidah. This sewage network is designed to receive the flow from some parts of Buraidah by gravity.

The influent will be collected by several pump stations, and then it will be discharged to Buraidah Sewage Treatment Plant.

Excavation and backfilling Works:	223,977 m ³
Excavation of rocks:	70,000 m ³
Pipe Works Installation:	
Clay pipes ND: 200 mm - 700 mm	118,269 m
GRP- ND: 900 - 800 mm:	610 m
Manholes Installation:	2,892
House connections:	16,000
Pump stations:	3



Domat Al Jandal Sewer Network

Construction of sewer network which includes sewer lines, manholes and pumping stations to serve more than 4,800 houses at Domat Al Jandal.

Excavation and backfilling Works:	135,463 m ³
Excavation of rocks:	21,243 m ³
Pipe Works Installation:	
Clay pipes ND: 200 mm - 700 mm	55,558 m
GRP- ND: 800 - 900 mm:	9,804 m
Manholes Installation:	1,471
House connections:	4,800
Pump stations:	1

A photograph of a row of red industrial valves in a tunnel. The valves are arranged in a line, receding into the distance. The background shows the concrete walls and floor of the tunnel, with some light reflecting off the surfaces. The valves are connected to a network of pipes.

Projects | O&M



Dammam Water and Wastewater Project

Scope of work includes full scale management of Dammam City Water and Waste Water Systems: Fully operated customer service, complaint support, which is integrated with multi disciplined maintenance teams for over 1 million residents, Around the clock emergency dispatch system for repairs ranging from service lines to critical city infrastructure.

Waste water plants – 470,000 m³ per day, Sewage lifting stations – 45 Each, Over 2 million meters of Sewage Networks, Main Effluent Transmission Line – 10 KM, Over 2.7 million meters of Potable Water Networks conveying 500,000 m³ daily, Wells – 140 Each, RO Plants – 36 Each, Sweet water distribution bays at 11 locations, Desalination transmission line – 55 KM, Capability to sustain Dammam's requirement of potable water in the event of shortage/ interruption of external desalinated water supply, Fully functional water, sludge and waste water test labs, Quality assurance program including sample collection and solution implementation ranging from treatment plants, networks to end users.



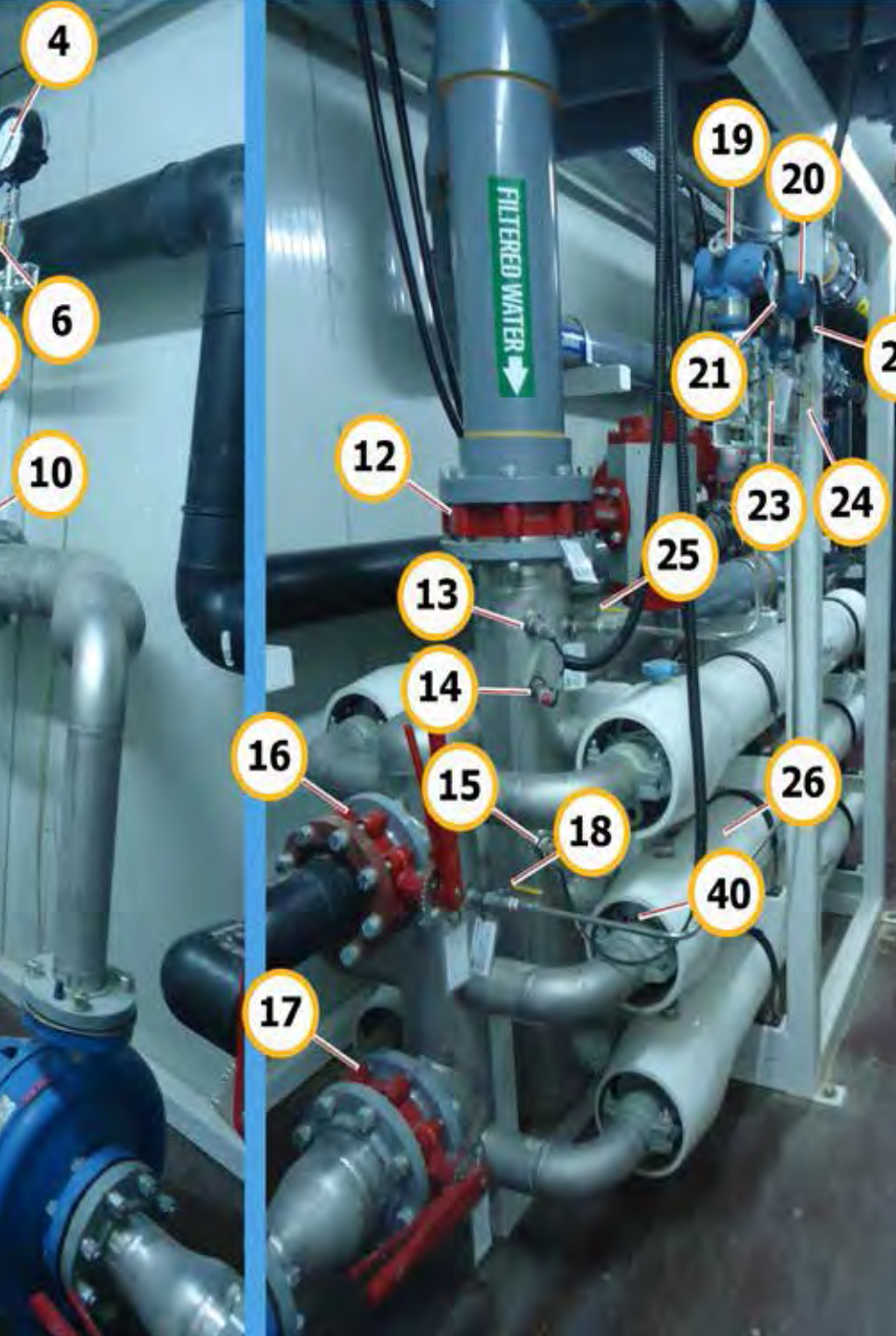
Hadda & Arana Waste Water Treatment Plant

Client :
NWC – National Water Company

Capacity : 500,000 m³/day

Project Scope :

Haddah & Arana Project consists of 2 Wastewater Treatment Plants with a total capacity of 500,000 m³/day average flow and 750,000 m³/day at peak. Both plants serve Makkah Al Mukarama City including pilgrims in the Holy City. The treated effluent of these plants are used for Holy Mosque cooling system.



Riyadh Water Source Group2- Water Treatment Plant

Client :
NWC – National Water Company

Capacity : 83,000 m³/day

Project Scope :

Riyadh Water Source Group2- Water Treatment Plant Project comprises with 19 satellite R.O Plants with a production of 83,000 m³/day and is serving Riyadh City.



Hail Water Treatment Plant

Capacity: 100,000 m³/Day

Type: R.O Plants

Scope: 30 Water wells for raw water Raw water tank

Pre-treatment system

San filter

Feed pumps

High pressure pumps

12 R.O units

Blending system

Product tank

Pump station



Buraidah Water Treatment Plant + Water tower

Alkhorayef Water & Power Technologies Company
run the Project from 2003 to 166,000 2009 m³/day -
Reverse Osmosis (R.O) Plant
14 R.O Skid
20 Sand Filters
6 Train of UF
2 Aeration Tanks
2 Products Tanks



Onizha Water Treatment Plant

Capacity: 50,000 m³/Day

Type: R.O Plant

Scope: 20 Water wells for raw water Softener

Sand filter

Feed pump

Pre-treatment system

High pressure pump

6 R.O units

Blending system

Product tank

Pump station



Zulfi Water Treatment Plant

Capacity: 18,000 m³/Day

Type: R.O Plants

Scope: 5 Water wells for raw water

Raw water tank

Cooling tower

Feed pump

Sand filter

Pre-treatment system

High pressure pump

3 R.O units

Product tank

Pump station

City Tank



Jeddah Desalination Plant (Sea Water Plant)

Capacity: 5,000 m³/Day

Type: - M.S.F +R.O

2 M.S.F Units : In tank pump

Pre-treatment system

2 Feed Pumps

2 M.S.F Units

2 Recycle pump

Product tank

Pump station

2 R.O Units : Intake pumps Pre-treatment system

Sand filter

Feed pump

High pressure pump R.O Unit

Product Tank

Pump Station



Dawadmi & Afif Water Treatment Plant

Capacity: 50,000 m³/Day

Type: Chlorination system

Scope: 20 Water wells for raw water

Diesel power plant 7 MW

Pump station No. 4 - 1 pumps - to Dawadmi City

Chlorination system - 2 Dosing pumps City tank

Pump station No. 4 - 2 pumps - to Ajedah City

Chlorination system - 2 Dosing pumps

Pump station No. 4 - 3 pumps - to

Dawadmi Village areas

Chlorination system - 2 Dosing pumps

Pump station No. 4 - 4 pumps - to Afif village areas

Chlorination system - 2 Dosing pumps

Pump station No. 4 - 5 pumps - to Afif City

Pumping line 400 Kilometers -600 mm



Hafer Al Baten Water Treatment Plant

Capacity: 20,000 m³/Day

Type: Filtration system

Scope: 7 Water wells for raw water

Diesel power plant to well pumps 3 MKN

4 pump stations

Pumping line 50 kilometers – 600 mm ductile Raw water tank

Sand filter

Feed pump

Product tank

Feed pump

Product tank

Pump stations

City Tank

Water network in the City



Al Quayiyah Water Treatment Plant

Capacity : 7,500 m³/Day

Period : from 1993 to 2002

Type: Electro dialysis Reverse (E.D.R)

Scope: Water well pump sources of raw water

Raw water tank

Cooling tower

Feed pump

Pre-treatment system

Sand filter

Electro dialysis units - 3 units - A,B & C

Product tank

Pump Station No. 1

Pumping line - 40 kilometers - 500 mm

Pump station No. 2

City Tank



Al Qurayath Water Treatment Plant

Capacity: 5,000 m³/Day

Type: R.O system

Scope: 10 Water wells for raw water Diesel power plant 20 MW

Pump station to the plant No. 4 - 1 pumps Pumping line 50 kilometers - 500 mm ductile Craw water tank

3 Clarifier tank

Sand filter

Pre-treatment

Feed pump

2 R.O Units

Pump stations - 3 Pumps City tank



Labkha Water Treatment Plant

Capacity: 3,000 m³/Day

Type: Electro dialysis Reverse (E.D.R)

Scope :

3 Water well pump - sources of raw water

Raw water tank

Cooling tower

Feed pump

Pre-treatment system

Sand filter

Electro dialysis units - 3 units - A,B & C Product tank

Pump Station No. 1

Pumping line - 20 kilometers - 500 mm ductile type

City Tank



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