

### Renewable Energy Solutions



### Hydrometric & Environmental Solutions



### Aerospace and Aviation Solutions



### Medical Equipment Solutions



### Education & Training Solutions



### Operation, Maintenance and Rehabilitation



### AI & Cybersecurity Solutions



# FIRAS BALASMEH CORPORATION FOR CONTROL SYSTEMS "FB GROUP"

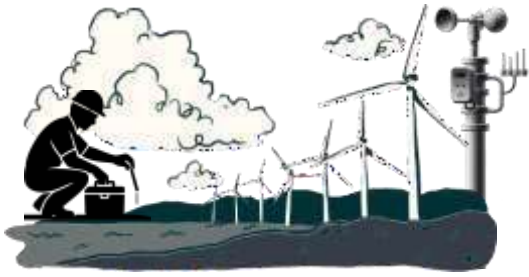
Hydrometric & Enviromental Solutions

- Renewable energy solutions
- Hydrometric & Environmental solutions
- Education & Training solutions
- AI & Cybersecurity solutions
- Aerospace & Aviation solutions
- Operation, Maintenance and Rehabilitation
- Medical Equipment Solutions

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# HYRDOMETRIC & ENVIROMENTAL SOLUTIONS

## 'WE WILL FIND A SOLUTION, OR CREATE ONE'

### 1. Introduction

#### 1.1 About Us

Firas Balasmeh Corporation for Control Systems "FB GROUP" is a Jordanian corporation that has been proudly serving the region since 2010. Headquartered in Jordan, FB GROUP is a dynamic organization that operates with a strong commitment to excellence and innovation in the fields of technology and engineering.



Turnkey  
Solutions



Design and  
Engineering



Supply and  
Installation



Commissioning  
and Testing



Training and  
Support



Operation and  
Maintenance

Our team is composed of highly experienced and multi-disciplinary engineers who bring a wealth of knowledge and expertise to every project. As a leading system integrator, FB GROUP specializes in delivering comprehensive services that help businesses and organizations connect with top-tier vendors, providing reliable and high-quality hardware, software, and professional services.

#### 1.2 Vision

To be the trusted partner for businesses and organizations seeking innovative, reliable, and sustainable solutions in engineering, artificial intelligence, automation, energy, and environmental management. We are dedicated to driving progress and delivering exceptional value through our comprehensive suite of services.

FB Group is more than a service provider; we are a partner in your success, working alongside you to turn challenges into opportunities and goals into achievements.

#### 1.3 Our Mission

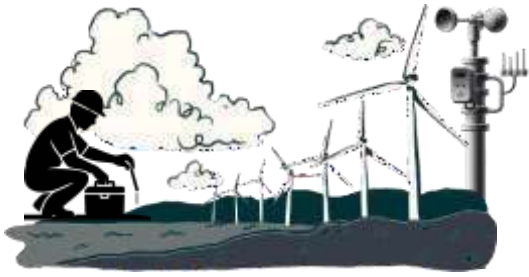
To deliver superior solutions that meet the diverse needs of our clients, ensuring that every project is executed with precision, efficiency, and a focus on long-term success.

#### 1.4 Our Objective

To be the leading provider of innovative, sustainable, and integrated engineering solutions in the Middle East, delivering unmatched value to clients across multiple sectors through cutting-edge technology, exceptional service, and a commitment to environmental and social responsibility.

We aim to drive growth and innovation while fostering long-term partnerships and contributing to the sustainable development of the communities and markets we serve.

This objective emphasizes FB GROUP's commitment to leadership in innovation, sustainability, and customer value, while also highlighting its dedication to social and environmental responsibility. It aligns with the group's diverse capabilities and its vision for growth and impact in the region.



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### 1.5 What We Value

- **Innovation**  
We are a company that keeps its promises.
- **Integrity**  
We exceed customer expectations through continuous improvement in quality, service, productivity and time compression.
- **Excellence**  
We provide our people with the tools, training and support to achieve excellence in customer satisfaction.
- **Sustainability**  
Which we seek in every element of our business.
- **Collaboration**  
We actively recognize the central role we occupy in the structure of society to improve the quality of life and the environment of a broad community.
- **Customer Focus**  
Our clients are at the center of everything we do. We listen to their needs, understand their challenges, and tailor our solutions to ensure their success and satisfaction.
- **Continuous Improvement**  
We are committed to continuous improvement, always learning, adapting, and evolving to stay ahead in a rapidly changing world, and to deliver the best possible outcomes for our clients.

### 1.6 What We Do

At FB GROUP, we are dedicated to delivering comprehensive, innovative solutions across a wide range of industries, with a focus on engineering excellence, environmental sustainability, and technological advancement. Our services are designed to meet the diverse needs of our clients, ensuring that we provide not only high-quality products but also the expertise and support necessary to achieve success in every project.

#### 1. Engineering Services

We provide end-to-end engineering solutions, including design, consultancy, project management, and implementation. Our multidisciplinary team of engineers specializes in creating custom solutions tailored to the unique requirements of each project, from concept to completion.

#### 2. System Integration

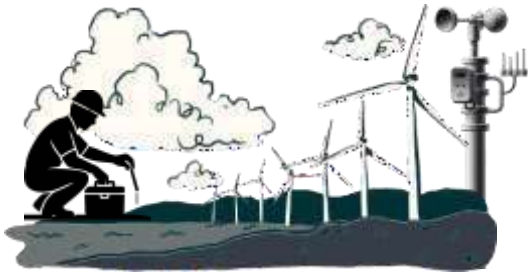
As a leading system integrator, we deliver seamless integration of advanced technologies in control systems, automation, and industrial processes. We ensure that our clients benefit from efficient, reliable, and scalable systems that optimize performance and productivity.

#### 3. Turnkey Projects

We deliver fully integrated turnkey solutions, managing every aspect of a project from initial design and engineering to procurement, construction, commissioning, and operation. Our turnkey approach ensures that projects are completed on time, within budget, and to the highest standards of quality.

#### 4. Training and Support

We provide specialized training programs and ongoing support to ensure our clients have the knowledge and skills needed to operate and maintain their systems effectively. Our training services cover a broad range of disciplines, empowering clients to maximize the value of their investments.



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### 5. Consulting and Advisory Services

Our expert consultants offer strategic advice and technical guidance to help clients complex challenges, optimize operations, and achieve their business objectives. We work closely with clients to develop tailored solutions that address specific industry needs.

### 6. Supply of High-Quality Products

We source and supply a wide range of high-quality hardware and software products from leading manufacturers around the world. Our product offerings are selected to meet the stringent requirements of our clients, ensuring reliability, performance, and longevity.

### 7. Environmental and Sustainability Services

Committed to environmental stewardship, we offer services that promote sustainability, including environmental impact assessments, resource management strategies, and implementation of green technologies. Our goal is to help clients achieve their sustainability targets while enhancing operational efficiency.

### 8. Renewable Energy Solutions

FB Group is at the forefront of the renewable energy sector, offering comprehensive services in the design, installation, and management of solar, wind, and hybrid energy systems. Our commitment to sustainability drives us to provide energy solutions that reduce environmental impact while enhancing energy security.

### 9. Hydrometric & Environmental Solutions

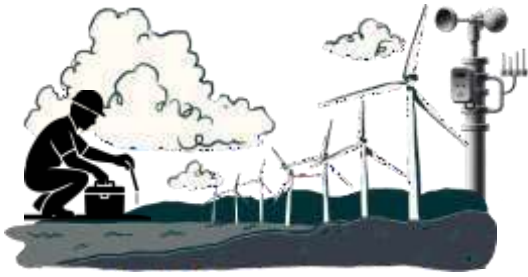
We specialize in hydrometric monitoring, environmental data management, and consulting services that help our clients manage natural resources responsibly. Our solutions enable accurate measurement and analysis of water resources, air quality, and environmental impact, supporting informed decision-making.

### 10. Aerospace and Aviation Solutions

We provide cutting-edge Airspace and Aviation Solutions designed to enhance the safety, efficiency, and reliability of aviation operations. Our expertise spans a broad range of services and technologies, ensuring that our clients in the aviation industry can meet the Highest standards of performance and compliance.

### 1.7 Our Core Business Lines





## HYDROMETRIC & ENVIRONMENTAL SOLUTIONS 'WE WILL FIND A SOLUTION, OR CREATE ONE'

### 2. Hydrometric & Environmental Solutions

#### 2.1 Introduction

FB Group is a leading provider of Hydrometric & Environmental Solutions, dedicated to delivering innovative and sustainable services that address the critical challenges of water management, environmental monitoring, and ecological preservation. With a deep commitment to advancing environmental stewardship, FB GROUP leverages cutting-edge technology and expertise to offer comprehensive solutions that support informed decision-making and sustainable development.



#### **Hydrometric & Environmental Monitoring**

Advanced systems for measuring and analyzing water levels, flow, and quality. Integrated systems tracking air quality, soil conditions, and biodiversity to ensure regulatory compliance and promote sustainable practices.



#### **Data Management & Analysis**

Utilizing sophisticated data management platforms for real-time data collection, analysis, and reporting, enabling clients to make informed decisions based on accurate and timely environmental data.



#### **Consulting & Advisory Services**

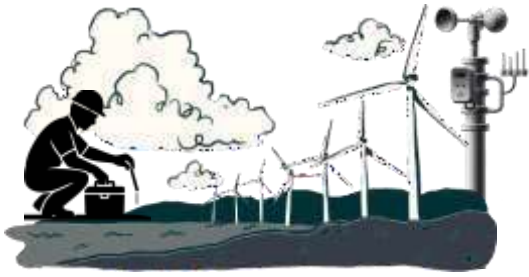
Providing expert guidance through the complexities of environmental regulations, impact assessments, and sustainable development strategies to help clients achieve their sustainability goals.

Our solutions are designed to meet the unique needs of diverse sectors, including government agencies, industrial operators, and environmental organizations. By combining technical expertise with a deep understanding of environmental challenges, FB GROUP is committed to helping clients achieve their sustainability goals and contribute to the protection of our planet's vital natural resources.

Since 2011, FB GROUP has established itself as a leading force in Jordan's hydrometric and environmental sector, renowned for its extensive portfolio of successful projects and strong partnerships with key stakeholders. Our distinguished clients include the Ministry of Water and Irrigation, the Water Authority of Jordan, numerous public universities, and prominent national and international agricultural, environmental, and water research centers.

FB GROUP is committed to delivering high-quality, performance-driven solutions for the remote measurement and monitoring of water and environmental parameters. Our expertise extends to air quality and Odor monitoring systems, along with advanced analyzers for water, air, soil, and food. We cater to a wide range of industries and applications, including agricultural systems, meteorological networks, water resource management, and industrial processes.

Our integrated solutions are designed to meet the highest standards of accuracy and reliability, ensuring that our clients can make informed decisions based on real-time data and comprehensive environmental insights. As a trusted partner in Jordan's environmental landscape, FB GROUP continues to innovate and expand its offerings to address the evolving needs of our clients and contribute to sustainable development across the region.



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### 2.2 Partners

#### **PICARRO – USA:**

FB GROUP has been the authorized reseller of Picarro in Jordan since 2016. Picarro is a US-based technology leader specializing in high-precision instruments and solutions for measuring greenhouse gases, trace gases, and stable isotopes across air, water, and soil applications. Its core offerings include advanced gas monitoring systems, emissions measurement and reduction solutions, leak detection for the natural gas industry, environmental and industrial monitoring tools, mobile and handheld analyzers, regulatory compliance support, and comprehensive service, training, and support solutions serving environmental, energy, semiconductor, and scientific research sectors.

PICARRO

#### **Scentroid – Canada**

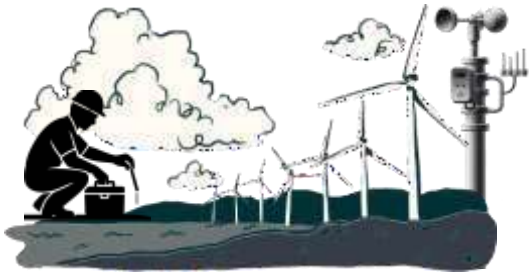
FB GROUP has been the sole agent for Scentroid in Jordan since 2018. Scentroid is a global leader in air pollution and odour measurement technologies, specializing in the design and manufacture of advanced instrumentation for environmental, industrial, nuclear, and medical applications. Its core portfolio includes chemical analyzers, olfactometers, samplers, software, and accessories, supported by comprehensive services such as environmental odour impact assessment, emissions inventory, hazardous environment monitoring, leak detection, occupational exposure evaluation, regulatory advisory, equipment rental, and sector-specific solutions across oil & gas, wastewater, waste management, manufacturing, agriculture, and research facilities.

SCENTROID

#### **KISTERS – Germany**

FB GROUP has been the distributor of KISTERS in Jordan and the Gulf countries since 2024. Founded in 1963, KISTERS is a global provider of environmental data management and IT solutions, supporting the sustainable management of water, energy, air, and natural resources. Its core portfolio includes environmental monitoring hardware for meteorology, water level, flow, quality, groundwater, and agriculture, combined with advanced software solutions such as KISTERS Datasphere, iLink, HydroTel telemetry systems, and HyComm for data acquisition, early warning, reporting, and emergency management applications.

 **KISTERS**  
Empowering decisions of tomorrow



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### Atek Alfa

#### **ATEK Sensor Technology – Turkey**

FB GROUP has been an authorized partner for ATEK Sensor Technology in Jordan since 2025. ATEK Sensor Technology is a leading manufacturer of industrial and environmental measurement solutions, delivering high-precision sensing technologies for hydrometric, environmental, water, energy, and industrial applications. Its core product portfolio includes sensors and systems for pressure, level, temperature, flow, linear and rotary measurement, speed and motion, inclination and seismic monitoring, proximity and laser distance sensing, as well as signal conditioning, displays, counters, connectors, and related accessories designed for reliable data acquisition and long-term performance in demanding field environments.



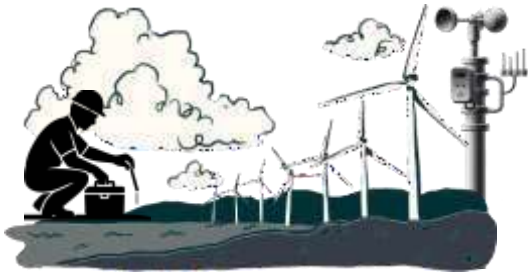
#### **Beijing Zetron Technology Co – China**

FB GROUP has been an authorized partner for Beijing Zetron Technology Co., Ltd in Jordan since 2025. Beijing Zetron Technology Co., Ltd is a specialized provider of gas detection, air quality monitoring, and environmental safety solutions, delivering advanced technologies for industrial and environmental applications. Its core portfolio includes portable and fixed gas detectors, gas analyzers, natural gas and HVAC monitoring equipment, pharmaceutical and food safety monitoring systems, and integrated air quality monitoring solutions, supporting environmental protection, municipal engineering, energy and chemical industries, and workplace safety through accurate hazard detection and reliable data acquisition.



#### **Tianjin Union Valve Co., Ltd – China**

FB GROUP has been an authorized partner for Tianjin Union Valve Co., Ltd in Jordan since 2025. Tianjin Union Valve Co., Ltd is a reputable manufacturer of industrial valve and flow control solutions, delivering certified products for water, wastewater, energy, industrial, and environmental applications. Its core portfolio includes butterfly, gate, ball, check, and globe valves, Y strainers, rubber expansion joints, and flanges, all designed to ensure reliable fluid control, long-term durability, and compliance with international standards in demanding operating environments.



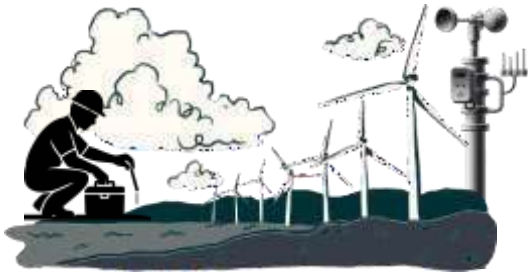
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## 2.3 Our Solutions

WATER MONITORING SOLUTIONS	AIR & ATMOSPHERIC MONITORING	ANALYSIS & DATA SYSTEMS	CORE COMPONENTS & EQUIPMENT
 <p><b>Groundwater Monitoring</b> Equipment for assessing subterranean water resources.</p>	 <p><b>Meteorological Systems</b> Instruments for collecting weather and climate data.</p>	 <p><b>Water, Soil, and Food Analyzers</b> Integrated devices for comprehensive sample analysis.</p>	 <p><b>Control Valves</b> Essential components for managing fluid flow in monitoring systems.</p>
 <p><b>Water Quality Analysis</b> Tools to measure chemical, physical, and biological characteristics of water.</p>	 <p><b>Air Quality &amp; Odor Monitors</b> Analyzers for detecting pollutants and nuisance odors in the ambient air.</p>	 <p><b>Analytical &amp; Lab Sampling Equipment</b> A range of tools for precise laboratory sample collection and preparation.</p>	 <p><b>Pumping Units</b> Reliable pumps for sample extraction and fluid transfer applications.</p>
 <p><b>Water Level Measurement</b> Sensors and systems for tracking water body elevations.</p>	 <p><b>Olfactometers</b> Specialized equipment for sensory analysis and measurement of odor concentration.</p>	 <p><b>Data Loggers &amp; Acquisition</b> Systems for automatically collecting, storing, and retrieving sensor data.</p>	
 <p><b>Water Flow Meters</b> Devices to accurately measure the rate of water movement.</p>		 <p><b>Bundled Systems</b> Pre-configured, integrated packages for turnkey monitoring projects.</p>	

## 2.4 IT and Software Solutions

- Chart Digitisation:**  
Digitise your paper charts and gain valuable insights into historical data whilst saving resources for storage.
- Remote Hosting:**  
Focus on the data as we operate and maintain the data infrastructure.
- Data Management and Reporting:**  
Collect, manage, and process environmental data for reporting and informed decision making.
- Telemetry and Data Acquisition:**  
Efficient data transfer from any sensor or remote data sources to your data management system.
- Publishing and Notifications:**  
Smart software solutions that offer sharable data and can alert anyone you want when action is needed.
- Cloud Solutions for Monitoring and Warning:**  
A faster and more efficient way to gain access to your data whilst staying alert and up to date.
- Advanced Analytics and Decision Support:**  
Intelligence, guidance, valuable and timely insights from your data.



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### 2.5 Ionic Projects



**Ground Water Station Mahasi,  
Al-Ramtha TeWaRON 3**



**Rain Fall Station Wadi Mousa School  
TeWaRON 3**



**Ground Water Station Wadi Al Walah,  
Madaba, TeWaRON 2**



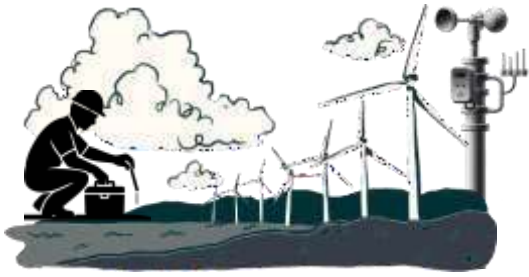
**Water Quality Station Red Sea,  
Tabuk University, KSA**



**Automatic Weather Station,  
University of Jordan, Amman**



**Isotopic CO<sub>2</sub> System  $\delta^{13}C$  Analyzer  
Water Authority of Jordan –  
Labs & Quality Affairs**



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**Automatic Weather Station  
Al Hussein Bin Talal University, Ma'an  
Integrated with 3 MW  
Solar Energy Plant**



**Automatic Weather Station  
German Jordanian University, Madaba  
Integrated with 2.11 MW Solar Energy Plant**



**Automatic Weather Station - Hashemite University, Az-Zarqa  
Integrated with 5 MW Solar Energy Plant**

### 2.7 Our Advantages

- **Diverse Expertise**

Proven capability across multiple sectors, delivering high-quality solutions that outperform competitors.

- **Strong Market Relationships**

Longstanding ties with public and private stakeholders in the Kingdom, built on trust and influence.

- **Financial Strength**

Solid financial foundation supported by strategic partnerships with leading institutions and developers.

- **Trusted Partnerships**

Authorized agents and distributors of reputable manufacturers, ensuring quality and reliability.

- **Reliable Execution**

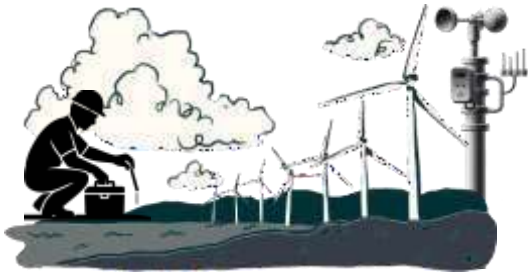
Consistent delivery on commitments through dependable, long-term client relationships.

- **Innovation-Driven**

Customer-focused solutions designed to exceed expectations.

- **On-Time, On-Budget Delivery**

Established brands delivered precisely to requirements, on schedule and within budget.



## HYDROMETRIC & ENVIRONMENTAL SOLUTIONS 'WE WILL FIND A SOLUTION, OR CREATE ONE'

### 2.6 References

Client	Project
Jordan Water Company (Miyahuna)	Supply of Hydrostatic liquid level meter
Jordan Water Company (Miyahuna)	Supply of Gate Valves
Water Authority of Jordan	Spare Parts for the Water Analysis Equipment, $\text{B}13\text{C}$ analysis. >> Supply, installation, and commissioning.
Jordan Atomic Energy Commission	Weather station, air quality station, off-grid power plant and diesel generator, located at Amra Palace >> Operation and Maintenance
Water Authority of Jordan, Laboratories & Quality Bureau	Water Analysis Equipment, $\text{B}13\text{C}$ analysis in DIC (liquids) and carbonates (solids) >> Operation and maintenance.
University of Jordan	Automatic Weather Station (Water, Energy and Environment Center) >> Operation and maintenance
Yanbu National Petrochemicals Company, KSA	Automatic Weather Station >> Supplying, installation, and commissioning
University of Jordan	Automatic Weather Station (Water, Energy, and Environment Center) >> Operation and maintenance
Ministry of Water and Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 145 stations
Al Hussien Technical University	Automatic Weather Station for Research Purposes - Donation >> Supplying, installation, commissioning, operation, and maintenance
Irbid Specialized Hospital	Automatic Weather Station - Integrated with 0.80 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
Civil Defense Directorate	Automatic Weather Station - Integrated with 1.1 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
German Jordanian University	Automatic Weather Station - Integrated with 2.11 MWp solar power plant >> Supplying, installation, commissioning, operation and maintenance
Al Hussien Bin Talal University	Automatic Weather Station - Integrated with 3 MWp solar power plant >> Supplying, installation and commissioning
International Center for Agricultural Researches in Dry Area, Egypt	Simultaneous Conductivity Magnetic Susceptibility Meter
Hashemite University	2 Automatic Weather Stations - Integrated with 5 MW solar power plant >> Supplying, installation, commissioning, operation and maintenance
Ministry of Water and Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 130 stations
Water Authority of Jordan, Laboratories & Quality Bureau The University of Jordan	Water Analysis Equipment, $\text{B}13\text{C}$ analysis in DIC (liquids) and carbonates (solids) >> Supplying, installation, commissioning, operation and maintenance & training Automatic Weather Station (Program of MSc in Climatic Environment) >> Supplying, installation, commissioning, operation and maintenance
Water Authority of Jordan	PV Water Pumping System
International Center for Agriculture Researches in Dry Area, Jordan	Automatic Weather Station >> Supplying, installation, commissioning, operation and maintenance
Yarmouk University	Wireless Sensor Network Components for Soil & Automatic Irrigation >> Supplying, installation, commissioning, operation and maintenance
Tabuk University - KSA, Sensor Networks and Cellular System (SNCS) Research Center	Water Quality Station, Phase 2
The University of Jordan	Automatic Weather Station (Water, Energy and Environment Center) >> Supplying, installation, commissioning, operation and maintenance



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Client	Project
Tabuk University - KSA, Sensor Networks and Cellular System (SNCS) Research Center	Water Quality Station, Phase 1
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network, Phase 3; >> Supplying, installation, commissioning, operation and maintenance of 30 stations
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network; >> Operation and maintenance of 105 stations
BGR - Ministry of Water & Irrigation	11 stations at Al Disi (Ground water, supplied by OTT) >> Operation and maintenance.
Ministry of Water & Irrigation	Telemetric Water Resources Observation Network, Phase 2; >> Supplying, installation, commissioning, operation and maintenance of 35 stations