



COMPANY PROFILE



IRRI CONSULT[®]
Irrigation Consultants & Water Management

welcome

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IRRI CONSULT
 Irrigation Consultants & Water Management

INTRODUCTION:

IRRI CONSULT is a professional irrigation design, consulting and water management firm committed to your project success.

IRRI CONSULT is a full-service water management company that combines design , construction , auditing and management expertise to create a more efficient world of water use.

Our award-winning team specializes in green irrigation strategies that conserve resources and lower customer costs. We are ready to bring our design, management, auditing and consulting expertise to your next project.

Our work starting from the Surveying works and source of water (e.g. TSE , tanks , tapping points , wells , lakes , ...etc.) till the latest device and dripper in the network and managing through simple controller or most advanced SCADA control system , BMS and Smart City platform.

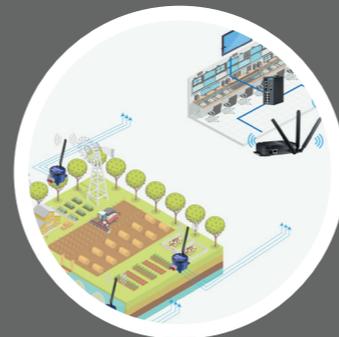
OUR VISION

IRRI Consult relentlessly pursues to be the preferred strategic partner providing design & consulting services in irrigation and water management across the Middle East by passionate & talented teams applying latest design & management software , knowledge and innovative technologies e.g. CAD ,GIS , BIM ,SCADA ,...etc.



SERVICES :

IRRI CONSULT As a professional consultancy experienced in all aspects of water management and providing all services related to irrigation and water management e.g.



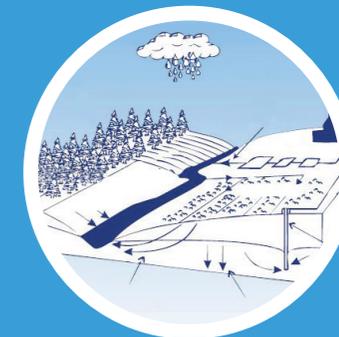
SCADA for Irrigation & Water Management – Smart Cities



Surveying Services



Geotechnical Services



Hydrology & Stormwater Management



Irrigation, TSE and Water Management



Complete Irrigation System Design and Specifications



Tertiary Irrigation Networks



Irrigation Water Treatment Design



GIS Mapping



BIM Modeling

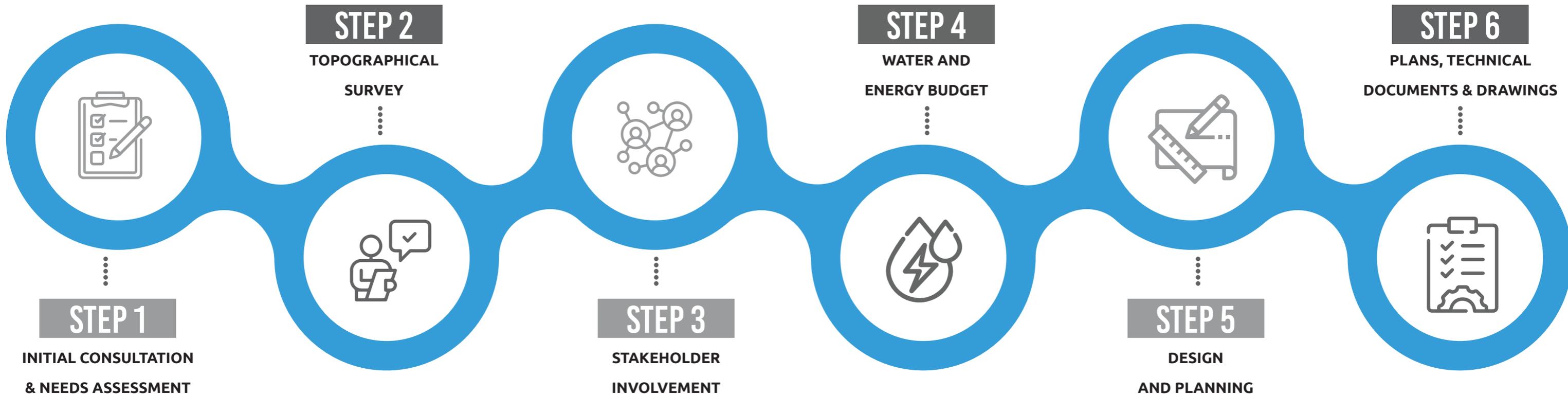


Construction Administration



Auditing and System Evaluation

GENERAL DESIGN PROCESS:



Step 1: Initial consultation & needs assessment

In our initial consultation, you'll tell us what your needs are and provide details that may impact our design. We'll want to know what type of plants and water requirements the design will have to cater for, as well as further details like scheduling requirements, plant or row spacing, irrigation and/or fertigation method, automation and type of structure (if applicable). Based on our discussions, we will provide information on what the design will entail and the estimated cost to complete the design process.

Step 2: Topographical survey

We conduct a detailed topographical survey with our state-of-the-art and precise real-time kinematic (RTK) GPS equipment, aerial survey or our GIS database. We provide a professional aerial survey service with fully orthorectified mosaic imaging and topographic information. The high-resolution mosaic is suitable as a replacement in Google Earth as background (overlay) for planning by the client. The mosaic and topographic product is suitable for engineering and irrigation design, for example in CAD and GIS systems.



Step 3: Stakeholder involvement

We make the lay-out plans electronically available to all stakeholders (with the client's permission). Our designers then sit down with the client and stakeholders like landscape architect, golf architect, soil scientists, agronomists, consultants and greenhouse manufacturers to get their input and requirements whenever required.

Step 4: Water and energy budget

We work out a water budget and the energy requirements, taking all the input, details and requirements into account.

Step 5: Design and planning

We do the overhead planning, water storage and pump station sizing, as well as the design of the Automatic control system and SCADA communication for smart cities (if applicable), transmission lines, mainlines, secondary, tertiary, filtration and fertigation systems.



Step 6: Plans, technical documents & drawings

The process ends with us supplying the client with plans, technical documents and drawings ,calculations , modeling , specifications and BOQ .



The above mentioned process is a general design process , however some steps might be not included in our package or some additional requirements can be added to the general design process and that will be based on the scope of work and official agreement.

WHY CHOOSE IRRI CONSULT ?

- Independent Irrigation & water Management Consultants.
- Awareness and Experience of each market standard in Middle East especially Saudi Arabia.
- Best Work Quality.
- Business Confidentiality.
- Reliability.
- Time Commitment.



SOFTWARE:

IRRI CONSULT using the Latest design Software to produce the design drawings and demonstrate hydraulic performance of the system e.g.



ASSOCIATIONS:



CLIENTS:

The following are some of the prestigious clients we worked in their projects :



الهيئة الملكية لحدائق الرياض
ROYAL COMMISSION FOR RIYADH CITY



الرياض الخضراء
GREEN RIYADH



بلدية دبي
DUBAI MUNICIPALITY



Jeddah
Municipality



أرامكو السعودية
Saudi Aramco



وزارة الإسكان
MINISTRY OF HOUSING



NEOM



Red Sea
Global



Talal Moustafa Group



مؤسسة قطر
Qatar Foundation



MODON



وزارة الأشغال والحضر والبلديات
Ministry of Works, Municipalities Affairs
and Urban Planning



مسك
مؤسسة محمد بن سلمان
Mohammed Bin Salman
Foundation

PROJECTS & SCOPE OF WORK



IRRI CONSULT[®]
Professional Irrigation Consultants



SCOPE OF WORK :

IRRI CONSULT has over 15 years of experience in Middle East countries especially Saudi Arabia , UAE and Egypt .

IRRI CONSULT provided irrigation and water management services for a lot of clients in the Middle East and Saudi Arabia with different scope of work e.g.

Irrigation Design & Specification:

An irrigation system is a significant investment. It is a major tool in protecting a valuable asset – parks, roads, sports turf, golf course, crops ,...etc. An irrigation system typically has a design life of 20 years, so it makes sense to get the foundations right for a system that is:

- EFFICIENT in its use of water and energy resources, saving thousands of dollars over the life of the system in reduced chemical, fertilizer, power & water costs
- PRACTICAL to use on a day-to-day basis
- EASY to install and maintain
- CAPABLE of supplying water evenly to all plants
- VALUE for money over the life of the system
- FUTURE-PROOFED as irrigation technology moves fast

- No two sites are the same so it is important to have irrigation designed for a specific application. A good design will take into consideration agronomic, water and environmental factors, along with hydraulic engineering and irrigation technology. Irrigation systems of all sizes are IRRI COSNULT speciality. We offer outstanding, cost effective irrigation design services for:
 - Sports fields, racecourses & golf courses
 - Landscape parks & gardens
 - Horticulture / Agriculture
 - Commercial & residential properties

How great design can save you money:

- By using the latest irrigation techniques and products.
- By matching your requirements and budget
- By specifying components which lower installation costs
- By reducing the water applied to provide optimum plant growth

Irrigation Auditing

A quality irrigation system is the key to effective water resource management, cost reduction and the health of turf, plants or crops. Once installed, however, it can be difficult to know if it is working as it should.

IRRI COSNULT audit services can provide reassurance or help you get the best out of your existing system, or determine if an upgrade is warranted. As demands on all organisations increase, water users are increasingly requesting audits to:

- Determine if a system is efficient & effective
- Monitor water use
- Find ways to reduce power, chemical, labor & water costs
- Help optimise plant health
- Provide benchmarks for future system performance
- Prove to the water provider that the resource is being used efficiently

- Identify specific and on-going maintenance required to optimise the system
- Parkland's irrigation technicians use the latest technology for precision analysis. These include:
 - Soil moisture with profile mapping & GPS
 - Soil compaction with profile mapping & GPS
 - pH with profile mapping & GPS
 - Irrigation infiltration testing
 - Efficiency – distribution uniformity / schedule co-efficient testing
 - Irrigation scheduling
 - Water quality testing

IRRI CONSULT irrigation audits are practical. The focus is on recommending cost-effective improvements to conserve water, improve coverage and to prevent problems from arising.

Control System Design, Programming & Maintenance

Irrigation control system technology has come a long way since the simple, mechanical wheel timers of the 1950s. Today's computer based central control systems, when correctly specified, installed and maintained, can elevate system performance and:

- Conserve water resources
- Reduce costs (labor, water, power, seed, chemical & fertilizer)
- Monitor performance & send alerts in real-time
- Allow remote user monitoring & control
- Automate ancillary tasks such as pump operation, fertigation & filter back-flushing
- Accumulate data & provide management information

The best systems integrate the use of sensors (weather stations, flow meters, tank level probes & soil moisture sensors). These sophisticated tools can control water flows over just one reserve or across

entire cities.

No matter what the application, Parkland has in-depth experience in configuring and maintaining control systems to ensure efficient water use, waste water disposal and reduced costs. No project is too difficult.

PROJECTS

The following are some of the main projects we worked on:



Madinaty – TMG - Egypt

PROJECT BRIEF

Madinaty is a natural extension of New Cairo. It is situated at Cairo 33 kilometers (kms) on the Cairo-Suez road. Its boundaries extend from 2kms before the entrance to Al Shorouk City for 10kms with a depth of 4.5kms. The city is approximately a 10 minute drive from Heliopolis and 20 minutes from downtown Cairo. It is also located near the second ring road (currently under construction). Madinaty is 270 square meters above sea level which gives it a moderate climate all year round.



DAHIYAT AL DAMMAM

PROJECT BRIEF

The Project is to develop a High Quality and self sustaining Mixed use and Light Industrial Township by the Ministry of Housing in Dammam, Eastern Region.

Total area of development under this project is 8,000 Ha comprising of 4,000 Ha Mixed Use and 4,000 Ha Light Industry.

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



HOUSING PROJECTS IN EASTERN REGION

PROJECT BRIEF

The Project is to develop housing development schemes in Eastern Region of Saudi Arabia by Ministry of Housing.

Total area of development under this project is 3,500 Ha .

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Schemes are

- Al AHSA
- Hafr Al Batin
- Dahiyat Al Hajr
- Al Khafji
- Qaryat Al Ulya
- Buqayq
- An Nuayriyah
- Warood
- Wasee
- Sikak
- Nakheel



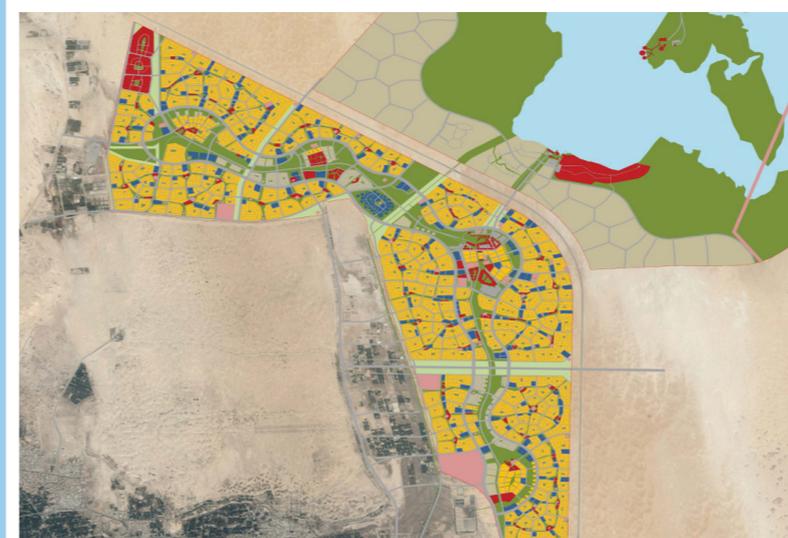
DAHIYAT AL ASFAR

PROJECT BRIEF

The Project is to develop a High Quality and self sustaining Township to match with potential city growth and housing requirements in the region by Ministry of Housing in Al Ahsa.

Total area of development under this project is 19,800 Ha comprising 5,500 Ha Core Area and 14,500 Ha Lake Area.

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



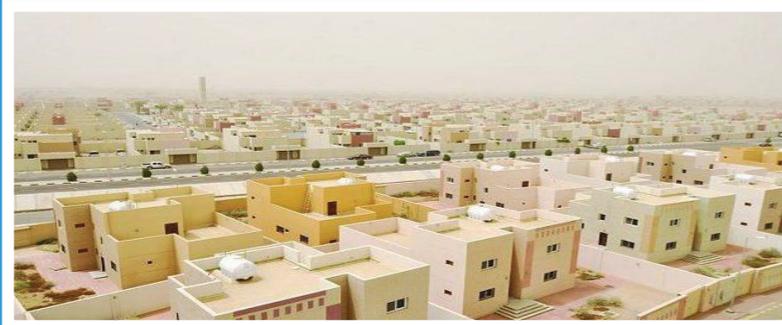
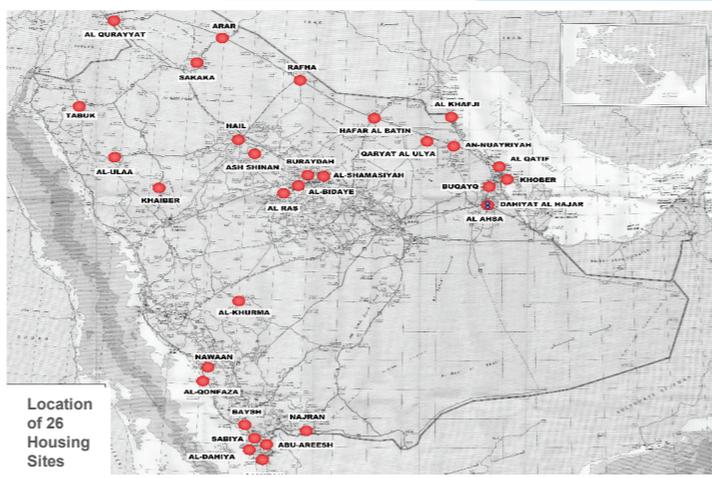
HOUSING SCHEMES IN OVERALL KINDOM OF SAUDI ARABIA

PROJECT BRIEF

The Project is to develop housing development scheme for 26 sites in different areas of Saudi Arabia by Ministry of Housing.

Total area of development under this project is 1,500 Ha

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



RAYADAAH HOUSING PROJECT – JEDDAH

PROJECT BRIEF

Project is to develop Mixed use Housing consisting of

- Villas
- Apartments
- Hospital
- Hotel
- Offices
- Commercial

Total area of development under this project is 250 Ha

The scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



FAL INDUSTRIAL CITY - RIYADH

PROJECT BRIEF

Project is to develop a high quality Private Industrial city with all amenities for following Land Uses.

- Medium Industries
- Light Industries
- Logistics and Warehouses
- Food and Beverages
- Residential
- Commercial

Total area of development under this project is 1,600 Ha.

Scope of Work includes Concept Design for overall development of 1,600 Ha and Detailed Design of Infrastructure for Phase 1 with development area of 750 Ha



MCI BUSINESS PARK -RIYADH

PROJECT BRIEF

Project is to develop a high end Business Park by Saudi Industry Property Authority MODON which includes the following components.

- SASO Headquarter
- Business Hotel
- MCI Headquarter
- Mixed Use
- Park
- Retail

Total area of development under this project is 20 Ha

The scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



DIPLOMATIC QUARTER-RIYADH

PROJECT BRIEF

Project is to develop the Area D known as FIFA area within Diplomatic Quarters and integrate with the remaining Diplomatic activities by Arriyadh Development Authority (ADA)

Total area of development under this project is 200 Ha

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



WATERFRONT REDEVELOPMENT MASTER PLAN – JEDDAH

PROJECT BRIEF

Project is redevelopment of North Corniche in Jeddah for a length of 12 km from Tahliyah Street by Jeddah Municipality with the following Development features.

- Promenades
- Plazas
- Beaches
- Festival Areas
- Play areas
- Amphitheatres
- Toilets & kiosks
- Marina

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Scope of work also includes coordination with Authorities and obtaining approval.



INDUSTRIAL CITY BUSINESS PARKS IN RIYADH AND DAMMAM

PROJECT BRIEF

Project is to develop the Business Parks for Riyadh Industrial City 2 and Dammam Industrial City 2 by MODON with the following features.

- MODON Building
- Mixed Use
- Conference Canter
- Mosque
- Park

Total area of development under this project is 200 Ha

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



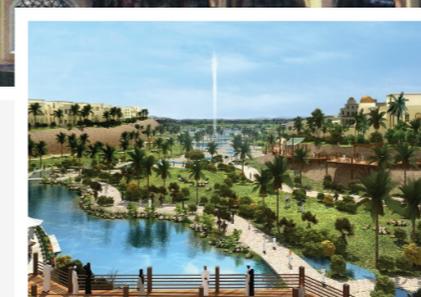
DEVELOPMENT OF AJMAKAN - RIYADH

PROJECT BRIEF

Project is to develop mixed use development with the development area of 2,500,000 square meters by the Land Holding

- Villas
- Apartments
- Hotel
- Mall
- Wadi
- Retail & Commercial

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



QASSIM UNIVERSITY SPORTS FACILITIES

PROJECT BRIEF

The project located in the heart of the site plan of Qassim University at Al Qassim and consisting of three main phases:

- Football stadium, 15,000 spectators with built up area of 15,500 m²
- Students sports hall, built up area of 16,000 m²
- Staff sports hall, built up area of 9,600 m²

In addition to number of open air playing courts for 5 players football, handball, basketball and volleyball, also recreation areas for bachelors and families.

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Scope of work also includes coordination with Authorities and obtaining approval.



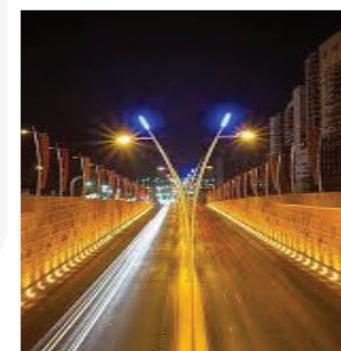
DEVELOPMENT OF KING ABDULLAH ROAD – RIYADH

PROJECT BRIEF

Project is to redevelop the King Abdullah Road to inner-city free way as main transport Corridor with High Quality urban spaces for 22 km long Corridor. The Vision is to Establish High Quality Developments and Urban Design along the Spine, which is Metropolitan and Suitable in Character.

Scope of work includes Support for the Urban Planning and detailed design of Infrastructure with the provision of Light rail Transit System and prepare the tender documents for 22 km length of Corridor.

Scope work also includes coordination with agencies and obtain the Approvals



DEVELOPMENT OF SHAMS AR RIYADH PROJECT – RIYADH PROJECT BRIEF

Project is to develop mixed use development of area about 500 Ha in north of Riyadh by Dar Al Arkan which includes

- Villas
- Apartments
- Wadies
- Retail
- Commercial
- Malls
- Towers

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Scope of work also includes coordination with Authorities and obtaining approval.



ALRAJHI UNIVERSITY EDUCATIONAL HOSPITAL 300 BEDS

PROJECT BRIEF

Educational Hospital 300 Beds The site for the proposed Hospital Project is indicated as being 83,170 m² (8.317 hectares) in area and is located along the eastern boundary of the proposed master plan.

The Hospital is to be an 'Educational' or 'Teaching' hospital which will provide a wide range of healthcare facilities and the necessary 'supporting' accommodation.

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Scope of work also includes coordination with Authorities and obtaining approval.



KING ABDULLAH ECONOMIC CITY – RABEGH

PROJECT BRIEF

The Project is the development of King Abdullah Economic City – KAEC a mega development project of Saudi Arabia with a total development area of 17,300 Ha located along the coast of the Red Sea, around 100 km north of Jeddah, the commercial hub of Saudi Arabia.

Scope of work includes for Phase 1 of about 4,500 Ha Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



King Abdullah Medical City - Bahrain

PROJECT BRIEF

The Project is the development of King Abdullah Economic City – KAEC a mega development project of Saudi Arabia with a total development area of 17,300 Ha located along the coast of the Red Sea, around 100 km north of Jeddah, the commercial hub of Saudi Arabia.

Scope of work includes for Phase 1 of about 4,500 Ha Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.



AL MAJMA'AH UNIVERSITY HOSPITAL 400 BEDS

PROJECT BRIEF

Educational Hospital 400 Beds, with total built-up area of 100,000 m², located among of the proposed university masterplan The Hospital is to be an 'Educational' hospital which will provide a wide range of healthcare facilities and the necessary 'supporting' accommodation.

Scope of work includes Preliminary Studies, Detailed Design of Irrigation, Construction Supervision and Support during Construction.

Scope of work also includes coordination with Authorities and obtaining approval.



MiSK City

PROJECT BRIEF

This will be the first non-profit city of its kind which will contribute to achieving the goals of Mohammed bin Salman Foundation in supporting innovation, entrepreneurship and qualifying future leaders by defining non-profit work in its internal operational concept and in terms of opportunities and youth training programs it will provide. In addition, the project will provide services that contribute to creating an attractive environment for all beneficiaries of the city's offerings." - HRH Crown Prince Mohammed Bin Salman Bin Abdulaziz

Location : Riyadh , Saudi Arabia

Area : 3,500,000 m²



RIYADH TOWNSHIP

PROJECT BRIEF

The Project is to develop a High Quality and self sustaining Mixed use by PIF - ROSHN Company in Riyadh, Central Region.

Total area of development under this project is 2,500 Ha

Scope of work includes Preliminary Studies, Schematic Design and Detailed Design of Irrigation, in addition coordination with Authorities and obtaining approval.

Construction Supervision and Support during Construction.



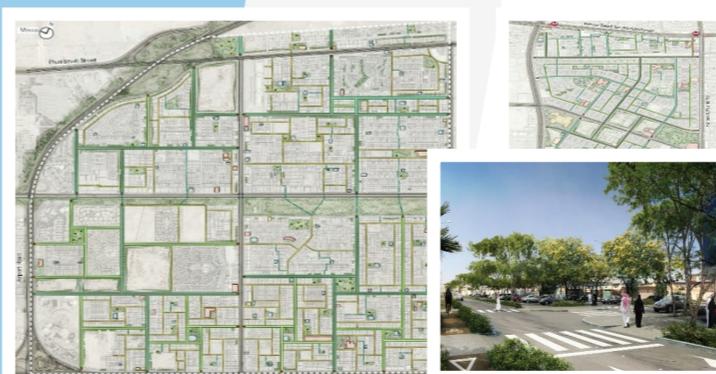
Green Riyadh Program

PROJECT BRIEF

In 2018, the Royal Commission for Riyadh City (RCRC) developed the Green Riyadh strategy, which is now considered to be one of the world's most ambitious and comprehensive greening megaprojects.

The strategy has been developed in line with international standards for urban greening and draws on learnings from leading practitioners around the globe.

The Green Riyadh project is fundamentally linked to the Vision 2030 for the Kingdom of Saudi Arabia (KSA). These linkages include improving liveability for Riyadh and supporting the health of citizens as well as driving economic diversification nationally.





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