

MOHAMED HASSAN RAMADAN

Agriculture & Irrigation Manager

+966 532534132 | way2mohamed@gmail.com | linkedin.com/in/mohamed-hassan-ramadan/

PROFESSIONAL SUMMARY

Senior **Agriculture & Irrigation Manager** engineer with 25 years of experience in PMC / consultancy design management, full design cycle (concept to IFC), and giga projects. Proven track record in leading irrigation design for large-scale developments, managing multidisciplinary teams, reviewing technical submissions, and ensuring compliance with international standards. Experienced in value engineering, BOQ preparation, tender documentation, and coordination with landscape, utilities, and infrastructure. Worked on AIUla (Saudi giga project) as a consultant for my company (Advacon) on Royal Commission projects, coordinating with AVA AIUla (France), Buro Happold (England), and Saudi Consult (Saudi Arabia). Also experienced in major oil field projects in Kuwait (KOC) and projects in South Sinai, Egypt.

KEY QUALIFICATIONS

- Leading irrigation design from concept through DD to IFC stages.
- Managing and coordinating irrigation design consultants and multidisciplinary teams.
- Reviewing and approving irrigation design drawings, calculations, and technical submissions.
- Ensuring compliance with project specifications, international standards, and local authority requirements.
- Developing efficient irrigation strategies, water demand calculations, and system optimization.
- Coordination with landscape, utilities, and infrastructure teams.
- Value engineering and design optimization to meet project objectives.
- Overseeing preparation of BOQs, specifications, and tender documentation.
- Supporting technical discussions with clients and stakeholders.

WORK EXPERIENCE

Agriculture & Irrigation Manager

Yogi Co. – Saudi Arabia | Jan 2025 – Present

- Lead irrigation design development (DD) and design review for ongoing projects, ensuring alignment with client requirements and international standards.
- Manage coordination between design consultants, landscape architects, and utility engineers.
- Review and approve design drawings, hydraulic calculations, and technical submittals.
- Conduct value engineering studies to optimize water demand and system costs.
- Prepare BOQs, technical specifications, and tender documents for subcontractor packages.
- Support technical discussions with clients and stakeholders.

Agriculture & Irrigation Manager

Advacon Co. – AlUla, Saudi Arabia | Nov 2021 – Dec 2024

- Served as a consultant for my company (Advacon) on its projects with the Royal Commission for AlUla. Worked in close coordination with the supervisory consultant offices – AVA AlUla (France), Buro Happold (England), and Saudi Consult (Saudi Arabia) – as part of project integration.
- Led irrigation design from concept through design development (DD) to IFC stage for AlUla Oasis rehabilitation (300+ hectares).
- Managed and coordinated irrigation design consultants and multidisciplinary teams (landscape, infrastructure, utilities).
- Reviewed and approved all design drawings, hydraulic calculations, and technical submissions.
- Ensured compliance with international standards (ISO, ASTM) and Royal Commission requirements.
- Developed efficient irrigation strategies, including water demand calculations, system optimization using HDPE networks, VFD pumps, and automated control systems.
- Coordinated closely with landscape architects to integrate irrigation with planting design.
- Performed value engineering, reducing material costs by 15% without compromising performance.
- Oversaw preparation of BOQs, specifications, and tender documentation for subcontractor packages.
- Supported technical discussions with the client (Royal Commission for AlUla) and stakeholders.
- Installed weather stations and soil moisture sensors to enable data-driven design adjustments.
- Adhered to strict archaeological monitoring requirements throughout all design and execution activities, as AlUla is a historical area with protected heritage sites.

Agriculture & Irrigation Department Manager

Al Rabat Co. – Egypt | July 2020 – Oct 2021

- Directed design and planning of irrigation projects, including concept development, site plans, and cost estimates.
- Reviewed design calculations and ensured compliance with local regulations.
- Coordinated with internal teams and external consultants to deliver design packages on schedule.
- Prepared tender documentation and supported bid evaluations.

Agriculture & Irrigation Department Manager

Delta Sharm – Sharm El Sheikh, South Sinai, Egypt | June 2019 – July 2020

- Led design coordination meetings with clients, engineers, and architects for projects in South Sinai.
- Reviewed topographic surveys, water supply analysis, and soil drainage studies to inform design decisions.
- Developed design strategies for water distribution and conservation in arid coastal environment.

- Prepared design reports and technical submissions.
- Applied strict environmental protection measures because the project location is within a protected nature reserve (South Sinai). Ensured all irrigation and landscape works minimized ecological impact.

Irrigation Engineer

Kuwait & Gulf Link Co. (KGL) – Kuwait Oil Company (KOC) Oil Fields | Apr 2015 – Mar 2018

- Worked directly on Kuwait Oil Company (KOC) Oil Fields projects, managing irrigation design from project study stage through all subsequent phases: concept design, detailed design, tender documentation, construction supervision, and commissioning.
- Designed and supervised the construction of artificial oases and industrial ponds to treat and reduce pollution caused by petroleum extraction activities. (Note: changed to oases per request)
- Prepared design drawings, specifications, and BOQs for irrigation networks and pollution control water features.
- Coordinated design with civil, mechanical, and environmental engineering teams.
- Reviewed contractor submittals and ensured design compliance with KOC standards.
- Supported value engineering initiatives to reduce material waste and optimize water use in the oil field environment.

Irrigation Engineer

Metallic Plast Co. – Egypt | Mar 2009 – Mar 2015

- Designed drip and sprinkler irrigation systems for agricultural projects.
- Prepared technical submittals, hydraulic calculations, and BOQs.
- Supported tender processes and coordinated with contractors.

Irrigation Engineer

International for Agriculture Services – Egypt | Jan 2002 – Dec 2008

- Assisted in design and supervision of irrigation systems.
- Coordinated with contractors and ensured design compliance on site.

EDUCATION

Bachelor of Agriculture Science (Agricultural Cooperation)

Higher Institute of Agricultural Cooperation – Cairo, Egypt | Sep 1995 – May 1999 | Grade: Good

Diploma in Agronomy (Crop Science)

Al-Azhar University – Cairo, Egypt | Sep 2001 – May 2003 | Grade: Distinction

CERTIFICATIONS

- Approved Irrigation Engineer – Public Authority of Agriculture, Kuwait
- Approved Irrigation Engineer – Kuwait Oil Company
- HSE: Working at Height, Work Permit Authorizing, First Aid
- Project Management Course

TECHNICAL SKILLS

- Design software: AutoCAD 2D, RainCAD, Revit
- Irrigation design: HDPE, drip, sprinkler, VFD pumps, water demand calculations, hydraulic analysis
- Pollution control water features: artificial oases, industrial ponds for oil field wastewater treatment
- Standards: ISO, ASTM, KOC specifications, local KSA/Kuwait codes
- PMC tools: Microsoft Office, cost estimation, BOQ preparation, tender documentation

ADDITIONAL INFORMATION

- Giga project experience: AlUla (Saudi Arabia) – consultant for Advacon on Royal Commission projects, coordinated with AVA AlUla (France), Buro Happold (England), Saudi Consult (Saudi Arabia)
- Oil field experience: KOC (Kuwait) – full project cycle from study to commissioning, including pollution control oases
- Consultancy / design management background – proven ability to lead design consultants and review submissions
- Experience in remote / complex environments (desert, heritage sites, oil fields, South Sinai coast); willing to work on island projects.