

Your Trusted Engineering Partner



Construction Flags

Company Profile

Engineering and Construction Services

2024, Construction Flags Company



STEPPING INTO A SMART FUTURE

FOREWORD

Construction Flags (CF) is a multi-disciplinary engineering and construction company, with proven capabilities over a wide range of different fields in the construction and Engineering Industry. CF is a registered company with the Saudi Contractors Authority (SCA) as a contractor in Saudi Arabia (membership# 232223220).

As a part of our development, CF established multiple divisions to provide construction, engineering, project management, and technical field services.

Our Services include:

- · Electrical Engineering Design and Consulting Services.
- Project Management Services.
- On-site testing, Commissioning, and Maintenance Services
- Protection System and Distribution Equipment Upgrades.
- Instrumentation and Control Systems (SCADA, PLC, and DCS).
- Coordination studies and power system analysis.
- Construction Services (turnkey solution).
- Supplying, installation, testing, and commissioning for LV/MV ATS rated from (150-4000 A).



Construction Flags VISION

Be one of the premier engineering and construction services providers in Saudi Arabia by achieving extraordinary results for our customers, building satisfying careers for our employees, and earning a fair return on the value we deliver.

VALUES

- **Ethics**. We are uncompromising in our integrity, honesty, and fairness.
- Safety & Health. We are relentless in keeping people safe from harm, and we provide a healthy work environment.
- Quality. We are passionate about excellence and doing our work right the first time. Our reputation depends on our delivered value in the eyes of every customer and community.
- **Employee**. We inspire each other with important work full of purpose, challenging development opportunities, and rewarding careers. We aspire to be the employer of choice in our industry.
- Culture. We actively build a diverse, inclusive, and collaborative work environment where all views are welcomed, openness is encouraged, and teamwork and merit are cornerstones. We are proud of what we do and how we do it—and we enjoy doing it!
- **Relationships**. We build positive, long-term relationships with our customers, joint-venture partners, subcontractors, suppliers, and colleagues that are built on trust, respect, and collaboration.
- Innovation. We develop and apply top-class services. We listen, learn, and seek out the best ideas. We attack complacency and continually improve.
- Sustainability. We improve the quality of life in communities where we work by respecting local cultures, engaging local people, and protecting the environment.





COVENANTS

Wherever we go and whatever we do, we:

- **Demonstrate Integrity.** Exercise the highest level of professional and ethical behavior.
- Are Respectful. Treat people with respect and dignity. Listen actively. Communicate in a timely and forthright manner.
- Collaborate. Ask for and welcome help; offer and give it freely. Mutually resolve ambiguity and conflict.
- **Build Trust.** Make commitments responsibly and always keep our word. Be candid while building shared understanding.
- **Deliver**. Set high aspirations, plan responsibly, and honor all commitments.
- Live Our Culture. Embrace, embody, and actively contribute to Saudi Arabia 2030 Vision, Values & Covenants. Nurture a proud legacy.



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Design

Implementation

Supervision





ABOUT Construction Flags

Welcome to Construction Flags Company

We are a group of highly dynamic and creative people, ready to go that extra mile to create premium value for our customers. It's our employees that make Construction Flags a great place to work, and the reason why our clients choose to work with us on their most challenging projects.

This is the foundation on which our successful and innovative reputation is based. We have created Construction Flags Company to reinvent existing business models and industry standards, developing state-of-the-art class civil engineering solutions for our customers.

When we say we are your trusted partner for engineering and construction, we mean it. Through solid experience and sectoral expertise, we strive to become one of the leaders in engineering and construction, which are not only the backbone of our business but also the trigger of our growth into new challenges. Our main differentiators are based on constant innovation and strategic expansion. Owing to such mindset, we have confidently marched towards new market and service expansions; successfully proved ourselves in electrical engineering services, construction, project management and whole engineering and construction lifecycle; with many sub-services full of diverse solutions in engineering and construction.

We are looking forward to working with you!



THE DAWN OF A Construction Flags

OUR PROMISE





Valuable Experience and Expertise

Construction Flags is one of the frontrunners in the field of engineering and construction services, intending to build an established name in the Kingdom of Saudi Arabia.

Our Key Experience







Construction Flags focus seriously through the engagement lifecycle process on:









Construction Flags 5 P's

Our Construction Flags mix 5 P's (Process, Partner, Product, People, and Performance) are the 5.

Pillars of Smart Engineering service and project management framework.





A SMART JOURENY

Our Service Catalog

Our combined expertise in engineering and construction implementation will set your business up for success and create exponential value from the get-go.

Engineering Services

We offer a range of specialized engineering services primarily to clients in the energy and infrastructure sectors. Our engineering services is offered by a team of highly trained professionals who meet the highest quality standards while ensuring a high level of care and attention to detail that our clients expect.

Our Engineering Services include:

- Engineering Design and Consulting Services
- Project Management Services
- On-site testing, Commissioning, and Maintenance Services
- Protection System and Distribution Equipment Upgrades
- Instrumentation and Control Systems (SCADA, PLC, and DCS)
- Coordination studies and power system analysis
- Technical training
- Operation & Maintenance





Once we decided to go to market with a service in our portfolio, we tackle the below aspects:



1 Plan

We have a well-established plan for every service we intend to introduce to the market.



02 Do

Once we engage with our customer, we make sure we meet and exceed our customer's expectations.



03 Check

Review the test, analyze the results, and identify what we've learned. Build a lesson learned manual to tackle area of improvement in the future.



04 Act

Take action based on what we learned in the study step. We use what we learned to plan new improvements, beginning the cycle again.



CF Service Portfolio includes:



- Power Generation System Complete Electrical Installation
- 110 KV GIS Sub Station Installation
- Installation of High, Medium & Low Voltage Switch Gear
- Installation of Transformers SFE, Vacuum & Oil Dehydration, Air Blast
- Installation of emergency power supply (Engine / Gen Set with completed fuel line and ATC Installation
- · High, Medium & Low-Tension Power Cabling

Electrical System

- PLC & Control Cabling
- Internal & External Plant Electrification
- All types of relevant Tests as well as Commissioning assistance



Industrial
Automation &
Industrial
System

We have vast experience in providing System Integration support to SIEMENS System (Step - 5, Step - 7, HMI, and wince SCADA), OMRON, and ALLEN BRADLY.

Our team of professionals is expert in the following areas:

- Industrial PLC Programming. (SIMATIC)
- Design of control loops.
- Engineering and Schematics.
 - Control & Regulation (PID).
 - Design & Programming Graphical Interface. (SACADA WWCC)
 - Start-up and commissioning
 - Installation of Pneumatic System, Electrical/Electronic field Instruments of Power & Process Industrial Plants.



CF specializes in electrical retrofitting, complete or partial re-wiring, and panel, sub-panel, and circuit breaker upgrades.

Our goal is to the modernization of your electrical equipment and systems to meet today's safety code standards and energy savings options.

• We guarantee the safety and quality of our craftsmanship on your system and property.

WHY RETROFITTING?

- New construction can be costly when a simple modification can yield the same, or better results at a fraction of the price. The main function is to see how much money you will save if you make your infrastructure as energy-efficient as possible. To determine if electrical retrofitting is right for your system, get in touch with us today to book a free consultation with one of our retrofitting experts.
- We'll walk you through the process, analyzing your current electrical systems and designing and implementing adjustment plans that align with your current and future electricity consumption requirements.



Retrofitting



Site Services

Transformer on-Site Services
The site services provided by
CF technical services are an
alternative to reduce the
downtime and cost in the
maintenance of the
transformers.



We mobilize a complete team of fully equipped experts to the sites to carry out the diagnostics, overhauling, and repair of the transformers, without compromising on the Quality of service.

- Assembly Testing & Commissioning of new and old transformers
- Attending Shutdowns and preventive maintenance activities
- On-site OLTC inspection and preventive maintenance
- · Oil Filtration / Regeneration / Passivation activities
- Internal inspection of core and windings with repair
- Drying CCA at Site
- On Site Winding Replacement
- · Shifting of transformers & other substation equipment
- Attending all types of leakages
- Refurbishment / Repair / Replacement Cooler
 Installations



TESTING & COMMISSIONING



CF offers professional expertise in Testing, precommissioning, and commissioning services of electrical power systems, Generation and T&D, of various voltage levels with a very strong team of experienced engineers and technicians numbering and various testing and commissioning equipment, CF caters to various types of power systems, including all substations.

With key experience in the testing and commissioning of GIS switchgears, power transformers, protection and control systems, substation auxiliary equipment, fiber optic cable splicing and generation equipment, CF is committed to provide benchmark services to its clients.

Our T&C services include:

- Testing of relays of all types and makes
- Testing of primary injections, busbars and transformer stability
- Testing of outdoor switchgears
- Testing of 13.8kV and 33kV switchgears
- · Performing on-load measurements
- Testing of ACDBs, DCDBs, auxiliary transformers, NERs and RMUs
- Smart grounding measurements.
- Providing testing engineers along with world-class test equipment, on a project hire basis.
- Low Voltage switchgear and switchboard.
- Low Voltage motor control centers



- Soft Starters
- Automatic Transfer Switch ATS
- Power Factor Correction.

Our T&C services include Fiber Optics:

- Pre & Post installation testing
- Splicing of Fiber optic cables
- Termination of Fiber optic cables
- End-to-end testing
- Fitting of splicing boxes on towers
- · Pilot protection cable testing.
- · Pilot telecommunication cable testing.



Construction SERVICE:

EHSS Policy



CF is committed to maintaining the highest Environment, Health, Safety & Security (EHSS) standards throughout the organization, extending to all Entities, Divisions, and partners. We aim to match best-in-class standards, to conduct all operations "Beyond Compliance," and to inspire this mindset in everyone who works for or with CF. In keeping with this ambition, we also believe in prompt, full, and transparent reporting of any non-compliance with our requirements and obligations.

Our EHSS Policy provides an overall direction to the whole organization and forms the basis that drives our efforts and journey towards EHSS improvement.

- We ensure world-class HSE performance as the most important outcome for every ERM activity.
- We provide HSE systems, processes, procedures, equipment, and training for all ERM employees, enabling our work to be performed responsibly.
- We assess identifiable HSE risks before commencing work and take actions to monitor, manage, and reduce those risks.



- We operate in compliance with applicable HSE legislation, regulations, client policies and procedures, ERM policies, and relevant external international standards.
- We empower every CF employee with the authority to stop any CF-controlled work activity that they believe presents a danger to themselves, personnel under CF control, the public, or the environment.
- We establish clear, global HSE objectives to drive towards zero employee injuries and occupational illnesses and minimize adverse environmental impacts associated with our activities.
- We believe in sharing our HSE learnings throughout CF and with interested CF stakeholders to improve continuously based on our experiences.
- We encourage the participation of employees in implementing these commitments and proactively consult with them to drive continual improvement.

These HSE commitments are reflected in the values of CF and are implemented through our Safety Policy, Safety Management System, and Sustainability Program



Construction Flags **Quality Policy**



Quality is one of the fundamental pillars of HM's strategy. As stated in the motto; working Smart, quality assurance during execution by both the Company itself and the suppliers and subcontractors gives Clients full assurance that their projects will operate correctly by the contract requirements.

Furthermore, Client satisfaction creates the dynamics of being invited to participate in new investments and even different projects, thereby developing a recurrent portfolio of projects. Employees and procedures have a key role in the quality aspects of the CF performance.

CF relies on an excellent team to tackle any challenge it faces and attain its objectives sustainably, responsibly, and with the quality standards required by the market.

CF Quality Policy:

Commitment:

Quality is a degree of excellence, which is ever-changing. Every member of staff is involved in managing how we can improve today, tomorrow, and long into the future. From the smallest procedure to the largest contract, quality is our passport to customer satisfaction and our future business. This quality policy statement has been implemented into the CF Construction and Engineering management system and will be reviewed at regular intervals.



Aim and Scope:

Our quality management system aims to ensure that:

- · We deliver a quality service to maintain excellent customer relations.
- Customer satisfaction remains a priority to our business.
- Our customer's requirements have been fully understood and met.
- All work is carried out consistently to a defined standard.
- We have the skills and resources to fulfill our customer's requirements.
- Our staff are fully trained and involved in quality improvement.
- We strive to continuously improve our systems and procedures.
- We only use services that meet our quality assurance standards.
- A professional approach to customer interface is maintained at all times.
- Any complaints are dealt with efficiently and within an acceptable period.

CF recognizes the importance that the quality of our service has to the future of our business. We require the full and active participation of all our employees, for the principles outlined in this policy may be achieved



Innovation



Innovation enhances CF
competitiveness in a challenging
market, where success depends on
ensuring client satisfaction through
the offer of products and services
with high added value.

Key Aspects

CF uses an innovation model aimed at improving efficiency in project implementation. To this end, its activities focus on the four key aspects:

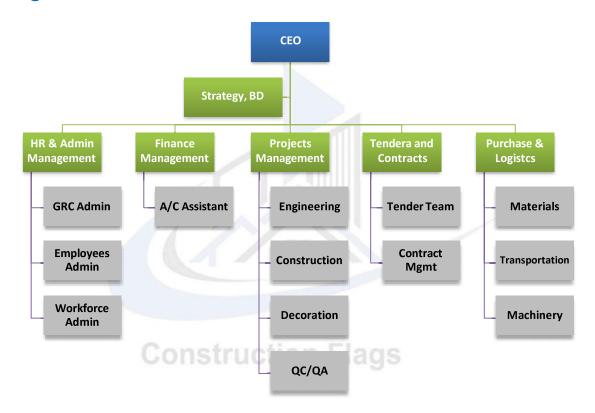
- 1. Quality.
- 2. Budget.
- 3. Adherence to plans.
- 4. Compliance with safety and environmental requirements, consolidating its know-how and transforming its working methods, as part of its ongoing drive for excellence.



THE A-TEAM

THAT CAN PUT THE ART IN SMART

Organizational Structure







Our Core Team



Nader Fathi CEO

25 years of experience leading successful business in engineering, construction and technology fields



Helal Ibrahim Business Development Head

18 years of experience designing, delivering and managing complex engineering projects



Ahmed Mustafa Projects Head

16 years of experience delivering state of the art engineering projects.



Ahmed Okasha Construction Manager

20 years of experience in the construction business, managing complex civil projects



Kareem Mohamed Field Team Leader

10 years of experience in managing field services for contracting business



Mohamed Omar Sales Head

20 years of experience in sales with successful customer engagement history



Mohamed Ibrahim Projects Manager

5 years of experience in managing mega engineering and construction projects



Engineering Workforce

Over14 highly skilled engineers in engineering and electrical service (project based-consortium agreement)



Construction Workforce

Over 35 highly skilled Field staff in construction and Project delivery services (Project-based- consortium agreement)



OUR CAPABILITIES

Our mission in **Construction Flag** is to create a bridge that connects you to your goals and objectives and to be your trusted partner in your journey. We call it a service only if it eliminates the problem that will occur later, to find your facility not affected by future civil and engineering changes, and the path of engineering growth is paved for the longest distances. We have always created those engineering services par excellence, by exploiting our unique mix of capabilities, which combines advanced engineering services with a stunning team.

Our Solutions Never Stop Growing

CF, with a strong intention, will be able to be one of the major names in the field of engineering and construction, and of its biggest service provider in the kingdom.

Today, we have tens of clients, and continue to expand to most cities in the Kingdom.

We are committed to going the extra mile to turn your business vision into reality.

CF understands the importance and the criticality of each project and has the right capability to address its needs and requirements. We will capitalize on our operational expertise in this domain while leveraging the latest market trends and our strong partnership. We have vast experience in providing engineering and construction services across sectors and are committed to offering the best and most cost-effective services that fit the customer's business goals and objectives.



ERING Construction Flags

Construction Flags

SUCCESS STORIES

Our partnership arms you with tools, technologies, and solutions that have been tried, tested, and proven to be driving successes. Below you will see a selection of examples of how our solutions have delivered the desired outcomes, at speed and scale.

Information Technology Sector

• Project Name: Data Center RYD

• Customer: MMR

End User: Data Center RYD

Business Challenge	DC RYD wanted to do a Testing & Commissioning of Electrical Equipment to build their DC and cloud services.
Approach	 Capitalizing on our professional electrical engineers, we tested and commissioned the DC facility with efficiency. Ensured compliance with the client strict standards, and specifications and service level commitments
Outcome	 Helped DC RYD speed up their processes Applied predicative analysis to enhance DC activities





Oil & Gas Sector

End User: Saudi Aramco

Customer: MIA ARABIA CompanyProject Name: Aramco Main Relay



KJO wanted to do a replacement of 3 Damaged SF6 Breaker for Section - 11 at UTP-SWGR-2.



• Capitalizing on our professional electrical engineers, we had replaced the breakers with minimum downtime.



• Ensured compliance with the client strict standards, and specifications and service level commitments



Helped KJO minimizing downtime

___ Outcome Ensured KJO service availability

Oil & Gas Sector

End User: Saudi Aramco

Customer: MIA ARABIA CompanyProject Name: Aramco Main Relay



Saudi Aramco wanted to make an end to end and interlocking testing of main relays.





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• Capitalizing on our professional electrical engineers, we had conducted E2E interlocking & testing of the main relay.

Approach

 Ensured compliance with the client strict standards, and specifications and service level commitments



 Helped Saudi Aramco conducting E2E interlocking & testing of main relay

Health Sector

End User: Sulaiman Al Habib Hospital

• Customer: ECO Company

Project Name: Sulaiman Al Habib Hospital



SHH wanted to have a site supervision for its hospital to make sure engineering services are implemented according to the standards



Approach

• Capitalizing on our professional QA engineers, we had successfully did a Site Supervision for Sulaiman Al Habib Hospital



 Helped the hospital implementing the engineering requirements as per the standard code of conduct



Government - Ministry Sector

End User: Ministry of WaterCustomer: EATON Arabia

• Project Name: Buraidah Pump Station



MOW wanted to do testing work at Buraidah site for low voltage switchgears and switchboards



Approach

 Capitalizing on our professional electrical engineers, we had successfully did testing work at Buraidah site for low voltage switchgears and switchboards



 Helped MOW implementing the testing work at Buraidah site for low voltage switchgears and switchboards

Health Sector

End User: KFSH&RCCustomer: AlbawaniProject Name: KFSH



Business Challenge KFSH wanted to do make oil sampling and filtration



Approach

 Capitalizing on our professional electrical engineers, we had successfully did oil sampling and filtration





Helped KFSH having the reported oil sampling and filtration

Government - Ministry Sector

End User: NICCustomer: Artar

• Project Name: NIC Project



Business Challenge Testing and commissioning for MV SWGR

• Testing and commissioning for transformers



Approach

 Capitalizing on our professional electrical engineers, we had successfully conducted testing and commissioning of MV SWGR and NIC transformers



• Helped NIC having the project completed in short time

Engineering Sector

• End User: GE (General Electric)

Customer: GESAT



• Project Name: GE Turbine Plant - 2nd Industrial City Dammam

Business Challenge	 Testing work Installation of cables trays and cable
Approach	 Capitalizing on our professional electrical engineers, we had successfully conducted the testing and Installation of cables trays and cable
Outcome	Helped GE having the project completed on time

Oil and Gas Sector

End User: Saudi Aramco

• Customer: CRCC

• Project Name: Dhahran Residential Project

Business Challenge	LV PB Testing work
Approach	Capitalizing on our professional electrical engineers, we had successfully conducted the LV PB Testing work
Outcome	Helped GE having the project completed on time



Education Sector

End User: Saudi AramcoCustomer: MOBCO

Project Name: KAUST Project

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Testing and commissioning of low voltage system



Approach

 Capitalizing on our professional electrical engineers, we had successfully conducted Testing and commissioning of low voltage system



• Helped Saudi Aramco having the project completed on time

Aviation Sector

• End User: King Khaled Int'l Airport (KKIA)

Customer: KKIA

Project Name: KKIA Project



Business
Challenge
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Testing and commissioning of ABB MV SWGR



 Capitalizing on our professional electrical engineers, we had successfully conducted Testing and commissioning of ABB MV SWGR



• Helped KKIA having the project completed on time

Engineering Sector

End User: GCC LabCustomer: CEPCO

Project Name: GCC Lab Factory Project



Business Challenge • Testing and Pre-coms. In UPS, Batteries & LVSWGR



Approach

 Capitalizing on our professional electrical engineers, we had successfully conducted Testing and Pre-coms. In UPS, Batteries & LVSWGR



• Helped GCC Lab having the project completed on time



Government - Directorate Sector

Supervision of Installation & Testing
 Capitalizing on our professional electrical engineers, we had successfully conducted Testing and Pre-coms. In UPS, Batteries & LVSWGR
Helped GCC Lab having the project completed on time

Oil & Gas Sector

End User: Saudi Aramco

Customer: ATC

Project Name: Dhiba City

Business Challenge	Testing And Pre-Comms. OF SYNC. Panel
Approach	Capitalizing on our professional electrical engineers and QA team, we had successfully conducted Supervision of Installation & Testing
Outcome	Helped Makkah Emirate having the project completed on time



Educational Sector

End User: Um Alqura University

• Customer: Artar

• Project Name: Um Alqura University Project

Business Challenge	Testing and commissioning of low voltage SWGR
Approach	 Capitalizing on our professional electrical engineers and QA team, we had successfully conducted Testing and commissioning of low voltage SWGR
Outcome	Helped Um Alqura University having the project completed on time



CARVING Construction Flags PATH

OUR PRESENCE

Together, CF, and their well-established partners pack vast experience and exposure to offer you the firepower you need to fulfill your ambition across the KSA and GCC.

Trusted Partners and Alliances

Domain	Partner Name	Agreement
Engineering Services	MOBCO Company	Consortium Agreement
Construction Services	First Contractor Company	Consortium Agreement
Decoration Services	First One Designs Decoration Company	Fully Owned by Construction Flags Engineering Company
Materials/Equipment/ Tools Supply	Construction Flags Engagement Company	Fully Owned by Construction Flags Engineering Company



Proficient in:



How Do We Make Our Customer Happy?

This question has always come to our minds in Construction Flags whenever we get to know a new project/service or hear about a new field in the world of engineering and construction. Our passion for harnessing emerging ways at our service and our customer service is what makes us always take the first step, towards a civil future. More importantly, this passion is supported by tremendous expertise from engineering capabilities, arch-building experts, and an amazing team of engineers in various disciplines, as it is one of the unique instances where passion meets experience and practice.





Construction Flags INTEGRATED DELIVERY MODEL





AT Construction Flags GLANCE

Manpower

Core Team:

- Management
- Business Relationship Management
- Projects Management

Extended Teams:

- Sales
- Projects Management
- Vendor, suppliers, and subcontractors' management





Tools & Equipment































Construction Flags BY THE DAY

Completed Projects

Project	Customer	Country
Saudi Armco Udhaliyah Lab renovation.	Saudi Aramco	KSA
Saudi Armco Manifah offshore platform	Saudi Aramco	KSA
Saudi Aramco Ithra.	Saudi Aramco	KSA
Saudi Armco Abgig Plant.	Saudi Aramco	KSA
Saudi Aramco KAPSARC	Saudi Aramco	KSA
Sabic Sharg Tam 2014.	Sabic	KSA
Sabic United LV Mcc	Sabic	KSA
Sabic Kemya SEP	Sabic	KSA
Sabic Sharq relay job 2015.	Sabic	KSA
CHEM Chvron relay job 2017.	chevron	KSA
Sabic Sharq relay job 2018.	Sabic	KSA
Maaken Phosphate.	Maaden	KSA
Rabigh bulk plant U01	Petro-Rabigh	KSA



Project	Customer	Country
KJO UT Extension Technip	KJO	KSA
KJOY2P Relay Replacement	KJQ	KSA
KJO PDP4&5 Technip CHINA	KIO	KSA
MakkaH Haram Extension.	Bin laden Group	KSA
MANIFA off shore	McDermott	Dubai/UAE
Bahrain Khalifa Marine port substation.	Bahrain Gov	Bahrain
US MARINE BASE @ Bahrain / Contrack Co.	US base Bahrain	Bahrain
GIZAN Refinery (Petrofac package North/South Tank farm)	Saudi Aramco	KSA
GIZAN Refinery (IGCC package SUB 160/41 GIZAN Refinery (TR Subs)	Saudi Aramco	KSA
SHARMA Project	Saudi Aramco	KSA
AL-Fahdli FGB	Saudi Aramco	KSA



Customers

Some of our success partners





CONCLUSION



We are excited and geared up to support you in achieving your business vision. We are confident about the unique strengths and synergies our partnership brings and will work with you every step of

the way to realize your goal. Our vast experience and expertise in engineering and construction implementations, the strength of our team experience, and our understanding of the market position us as a natural ally and a partner of choice to work with you. We're all on board to kick-start this journey and empower you to shape a smart journey.

We are willing to establish a long-term strategic relationship with you. We are the ideal partner to work with in delivering and managing the ideal services that have a full identical set of your requirements.

Construction Flags

Thank you for spending time exploring our company.











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