

COMPANY PROFILE



Advanced Solutions For Machinery & Equipment Co. Ltd.



WHO WE ARE:



A leading Solutions Provider of the electrical, instrumentation, automation & control system solutions in the Kingdom of Saudi Arabia at:

- Oil & Gas Plants.**
- Petro-chemical Plants.**
- Power & Water Plants.**
- Food, Cement, Glass, Concrete, Steel & Asphalt Plants.**
- Commercial Building (Fire & Gas Safety and Security).**

OUR AIM:



ADVANCED SOLUTIONS is a Saudi based organization founded in 2019, our aim is to be a well-known company in the region by our commitment, high standards, efficient services and work implementation in the premises and sites of our customers in Oil & Gas and Heavy Industry sectors at YANBU & JUBAIL.

For ensuring a smooth project execution we established the following:

- Commitment to a contract with an integrated team, not with multiple involved parties.
- Commitment to maximize the local content.
- High care of health and safety – zero tolerance of accidents.
- Implementation of appropriate quality standards.
- Certainty of schedule and completion date.

Projects Execution & Maintenance Works Capabilities & Responsibilities:

- Project preliminary scope of work, BOQ, technical solutions, and budgetary proposals preparation.
- Project development including; CDP and FEED packages preparation.
- General construction design & engineering services including; 30%, 60%, 90% & 100% DEP (IFC) as well as red marked up and as built documentations.
- Construction and vendor materials procurement & supply.
- Site installation & construction including; MOS, project planning.
- Quality & safety management including PQP, ITP, HSEP, JLA, etc.
- Testing & commissioning support including SAT and procedures.

WHY ADVANCED SOLUTIONS?



- Being strategically located in JUBAIL & YANBU cities closed to the industrial project zones and sites has given us the privilege to provide an expedited engineering, construction and maintenance services as well as client support at short notice and consequently add extra service for them by saving both time and money, the thing which is playing an effective role in reducing time off of a project and release our clients from dependency on resources from outside of Yanbu industrial area and KSA as well.
- We are local company but with world-class quality management standards which can fully satisfy our clients.
- ADVANCED SOLUTIONS provides a wide range of services in process instrumentation & control system, advanced industrial software's, process automation and process electrical monitoring & control and process safety systems.
- ADVANCED SOLUTIONS offers a fully turnkey solutions for electrical, instrumentation, fire & gas, automation and control systems including design, engineering, quality, safety, construction and planning management.
- ADVANTIONS offers a fully turnkey solutions for electrical, instrumentation, fire & gas, automation and control systems including those needed civil and mechanical related works.

OUR SERVICES:

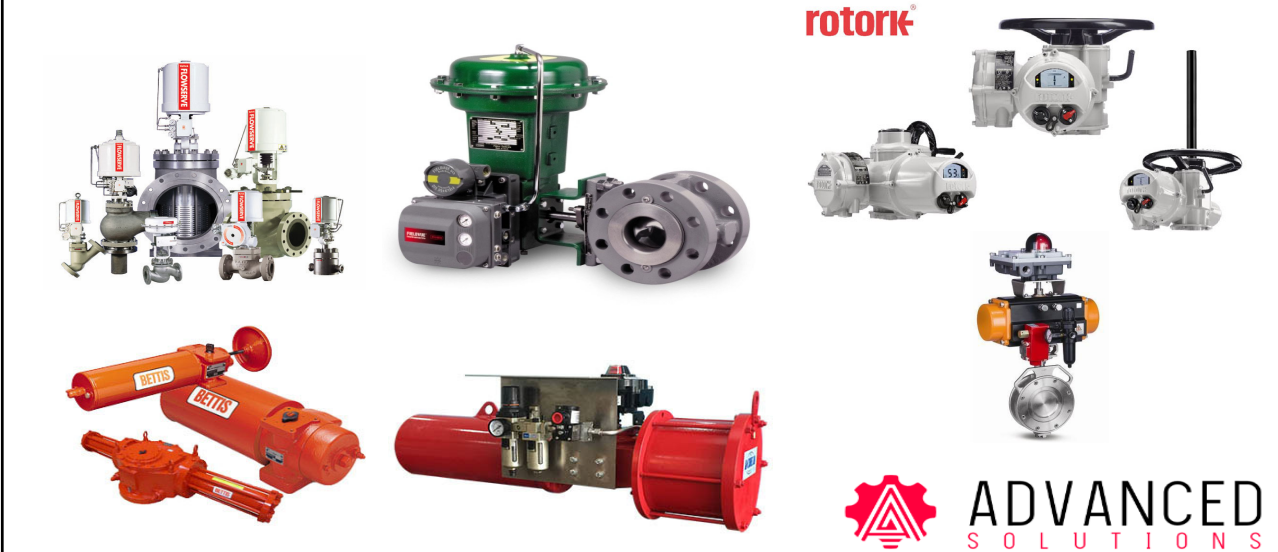


- All field instrumentations; design, engineering, installation, testing and commissioning “all type of transmitters such as pressure, differential pressure, temperature meters and their elements, flow meters and their elements, level meters and their elements, valves, valves positioners, convertors & actuators, etc.
- Fire and gas systems (addressable, conventional & fire fighting, etc.).
- Process & ambient air quality analyzer systems and cabinets / shelters.
- Control system (DCS, ESD, PLC, ATG, VMS, SCADA, and any special automation, etc.).
- Electrical systems (motors, drives, SWGR's, power distribution & electrical boards, lighting, heat tracing, transformers, cables, capacitor banks, UPS, battery bank, battery chargers, protection relays, etc.).
- Chemical dosing skid systems and water treatment systems.
- HVAC systems (safe area & explosion proof for hazardous area).
- Mechanical equipment (Diesel Generators, pumps, dryers, etc.).
- Electrical, instrumentation, control and communication cable raceways installation and cables laying.
- Vendor equipment (Yokogawa, Honeywell, Emerson, Schneider Electric, ABB, Siemens, etc.) installation and commissioning support.
- General construction and vendor engineering services.
- Civil works (foundations, duct banks, etc.) related to E, I, CS and automation requirements.
- Piping works (modifications for valves and instruments installation, etc.) related to E, I, CS and automation requirements.

Field Transmitters (All Brands; Emerson/Rosemount, Honeywell, Yokogawa, Azbil, Foxboro, Vega, ABB, Servomex, Ametek, Thermofisher, Dr. Thiedig, etc.)



Valves, Positioners & Actuators (All Brands; Emerson, Fisher, Samson, Starline & Air Torque, Bettis, Rexa, Rotork, Bernard, etc.)



Fire & Gas solutions; gas, smoke, fire & heat detection systems as well as firefighting solutions (Honeywell Notifier, Simplex, Minimax, Apollo, Drager, Detcon, etc.)



ESD, DCS, PLC, MMS, SCADA & Metering systems upgrade including system design, engineering, supply, integration, testing and commissioning support, all brands; Rockwell, Triconex, Honeywell FSC, Yokogawa Pro-safe, Siemens, Schneider Electric, Hima, Bently Nevada, Emerson, ABB, etc.

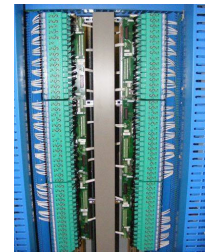
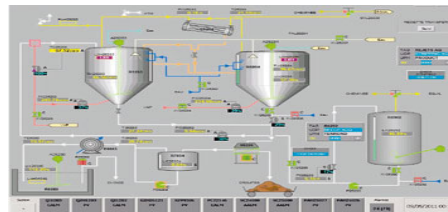


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DCS and metering system (MS) cabinets' integration, installation and commissioning support for vendors, all brands; Yokogawa, Foxboro, Siemens, Honeywell, Omni, Daniel, etc.



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Industrial and explosion proof HVAC systems & exhaust fans design, engineering, supply, installation, testing and commissioning, all brands; Zamil, Petra, Shield Air (Bidwell, Marc)...



Industrial machines and equipment engineering, supply, installation and commissioning like; UPS and battery systems, electric motors, motor operated pumps, MCC's, Transformers, SWGR's, junction boxes, indoor & outdoor cabinets, glands, conduits, cable trays, cables, substation automation and protection relays, industrial labs' equipment and boiler burners...



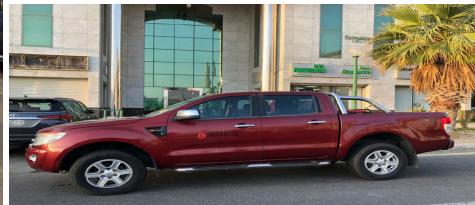
Supply of piping, tubing and fittings, all brands (pipes, tubes, flanges, isolation valves, pressure safety valves, strainers, steam and electrical heat tracing, etc.)



General services; Civil (concrete foundations, duct banks, etc.), Mechanical (piping) and Electrical (conduits, cable trays and cable laying) works as required for E, I, CS installation works as well as the repair and maintenance works.



ADVANCED SOLUTIONS FACILITIES:



ADVANCED SOLUTIONS TEAM:

شركة الحلول المتكاملة للإنارة والصيانة



LIST OF MAJOR EXECUTED PROJECTS:



S.N.	Project Name	Contract Type*	Project Type**	End User
1	ESD Upgrade, Instrument and PLC Replacement at EG-1 Plant (Includes MCC's Upgrade for New UPS Power Supplies)	E, P&C	C, M, CS, E & I	SABIC-YANPET
2	Replacement of Service Transformers and MCC Buckets	P&C	E	SABIC-SAFCO
3	Upgrade the Obsolete SWGR for 21 Area (ACB Replacement and Relays Testing & Commissioning)	E, P&C	E	SABIC-SAFCO
4	Installation of Upgraded MCC and Existing MCC Modifications	E, P&C	E	SABIC-SAFCO
5	Supply, Installation, Testing & Commissioning of Still Pipes at Ethylene & VCM Tanks	E, P&C	M, E & I	SABIC-SADAF
6	PH-1 Khobar / Dammam S/S's Protection System Upgrade	E, P&C	E	SEC-KHOBAR
7	Upgrade of Electrical System (Motors & MCC) at U10	E, P&C	E, CS & I	SABIC-YANPET
8	SF-3 MCC, UPS & Battery Rooms Upgrade Project	P&C	E & I	SABIC-SAFCO
9	UNIT#83 Complete MCC Upgrade, Cables, Trays and Conduit Replacement	P&C	E & I	SABIC-PETROKEMYA
10	SWGR and Power Cables Replacement in PE Plant	P&C	C & E	SABIC-PETROKEMYA
11	Acrison Controllers & Honeywell CLM DCS Upgrade Project (Includes MCC's Modifications)	E, P&C	CS, E & I	SABIC-YANPET
12	Electric Motors, Local Control Stations Installation, Power Cable Laying & MCC Modifications & Commissioning	P&C	E & I	SABIC-PETROKEMYA
13	Installation of 2 No's ACB's with Protection System for Flare MOV's MCC Buckets	E, P&C	E & I	SABIC-PETROKEMYA
14	Upgrading 200-T-002 Starting Device in Ibn Zahr MTBE Plant (Including SWGR Modifications)	E, P&C	E, CS & I	SABIC-IBN Zahr
15	Re-conditioning of Compressor Panels and Installation of New MCC buckets, Junction Boxes, Cables, etc. in Compressor House	P&C	E & I	SABIC-PETROKEMYA
16	S/S PDB Upgrade & DCS Upgrade at MTBE-1 & Utilities	E, P&C	E, CS & I	SABIC-IBN Zahr
17	Replacement of 4 No's Existing Obsolete MCC in U&O	E, P&C	E & I	SABIC-YANPET
18	Provide Online PH Meter at the Common Line of Waste Water to EC (Includes MCC interlocks)	E, P&C	I & A	SABIC-IBN Zahr
19	MCC Relays, Meters, Indicators, Switches Upgrade Project at PPS Area	E, P&C	E & I	SABIC-SHARQ
20	CRM Burners PLC's and MCC's Enhancement Project	E, P&C	CS, E & I	SABIC-HADEED
21	Upgrade of Al-Adamah 69/13 8kV Substation	E, P&C	E	SEC-DAMMAM
22	Reinforcement of Al-Manakh 69/13 8kV Substation	E, P&C	E	SEC-QATIF
23	Reinforcement of KFUPM 69/13 8kV Substation	E, P&C	E	SEC-DHAHRAN
24	Vibration Monitoring System & Electrical SWGR Upgradation	E, P&C	M, S, CS, C, E & I	SABIC-SHARQ
25	YMT B71 & B72 Loading Arms MCC Replacement	C	S, E & I	YASREF
26	YMT Rehabilitation Emergency Scope, MOA S/S SWGR & MCC Upgrade	E, P&C	I	YASREF
27	YMT Rehabilitation Emergency Scope, MOA S/S XFMR Replacement	E, P&C	C & I	YASREF
28	YASREF Ambient Air Quality Monitoring Analyzer Shelters Including MCC Upgrade	E, P&C	I, E & A	YASREF
29	YMT Cathodic Protection System Design, Engineering & Supply Including MCC Modifications	E&P	S & E	YASREF
30	YASREF Complex T/A MCC's Engineering Review & Materials Procurement Including SWGR's, MCC's & XFMR's	E&P	C, S, A, CS, E & I	YASREF
31	YMT Slope Pumps Installation & SWGR Modifications	C	M, S, E & I	YASREF
32	Propane, Butane & Naphtha Skids Inlet & Outlet Valves Operation Failure (ESD Valves) & MCC Modifications	E, P&C	E & I	YASREF
33	Replacement of RTU for SCADA SW & IW for Lift Stations Including MCC Panels Modifications	E, P&C	C, E & I	MARAFIQ-YANBU
34	Air Quality Monitoring System Project (Including MCC Modifications)	E, P&C	CS, FG, A, E & I	LUBEREF
35	Installing Ground Fault Protection at PE-1 480V SWGR	E, P&C	E	SABIC-GAS-Y
36	Replacement of Ph-1 Emergency Diesel Generator & SWGR Installation	E, P&C	E	SABIC-GAS-Y
37	Install Fixed Ambient Air Analyzers Project at existing shelter 274-AH-01 and new shelter 74-AH-01	E, P&C	CS, FG, A, E & I	SABIC-YANPET
38	Hydrocarbon Release mitigation at finishing 2 Buildings	E, P&C	CS, FG, A, E & I	SABIC-YANPET
39	YASREF Marine Terminal Sanitary Pumps & MCC Upgradation	E, P&C	E	YASREF
40	Installation of Oxygen Detection System (EPC)	P&C	I & CS	SABIC-GAS-Y
41	Replacement of BSDG's & 4.16kV SWGR Upgradation	E, P&C	C, E & I	MARAFIQ-YANBU
42	Installation of new 480V Emergency Diesel Generators	E, P&C	E	ARAMCO-TANAJEED
43	Replacement of Obsolete Emergency Diesel Generator DGEN-5701 at UOD Plant	E, P&C	E	SABIC-KEMZA
44	U-10 PSA Unit PLC Upgrade	E & C	I & CS	SABIC-YANPET
45	YASREF MOA Area Fire Water Intake Upgrade	E, P&C	C & E	YASREF

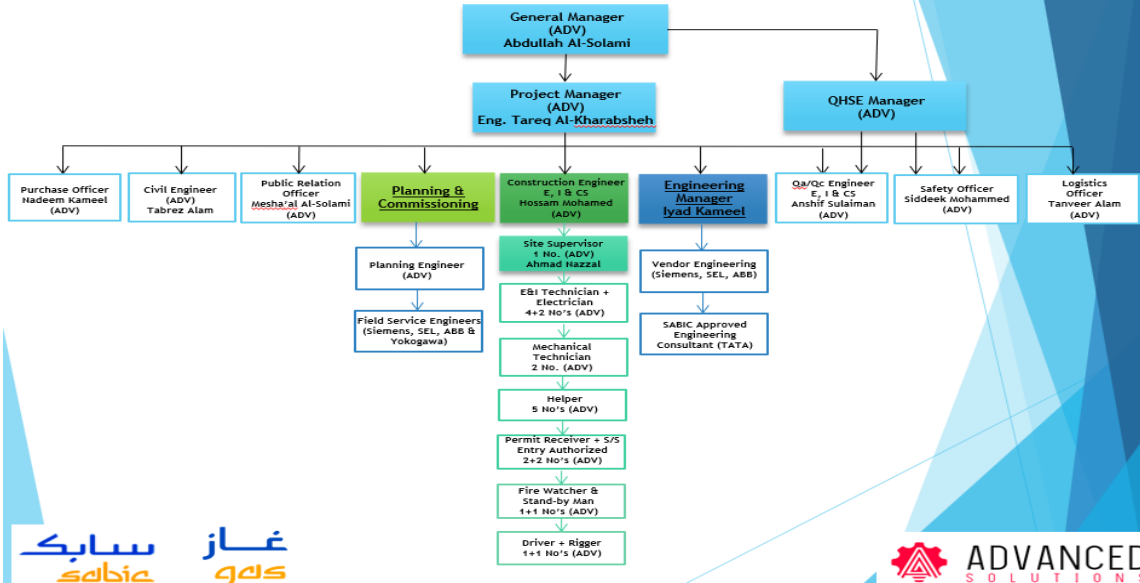
*Contract Type (E: engineering, P: procurement, C: construction)
 **Project Type (S: Structure, E: Electrical, C: Civil, CS: Control System, I: Instrumentation, FG: Fire & Gas, M: Mechanical Piping & A: Analyzer).
GREEN highlighted are the on-going projects.

ADVANCED SOLUTION CERTIFICATIONS:



SAMPLE PROJECT ORGANIZATION CHART:

SABIC Project No. SP-203200014 | SABIC-GAS YANBU PH-2, MAIN SS & PH-3 SCADA REPLACEMENT PROJECT | Project Organization Chart



Advanced Solutions Co. Address & Contacts:



ADVANCED SOLUTIONS FOR MACHINES AND EQUIPMENT CO. LTD.

شركة الحلول المتقدمة للألات و المعدات ذ.م.م.

Yanbu Al Sinaiyah 9128, Saudi Arabia

Radwa 8 District, Al Wadi St.

Building No. 3729 (Namlah Bldg.), Office No. 1

Zip Code: 46452

Tel: +966 (012) 640 4800 ext-105 (Jeddah),

Mob:+966 (53) 935 5899 (Jubail), Eng. Iyad Kameel;

iyad.kameel@advantions.com

Mob: +966 (50) 066 2333 (Yanbu), Mr. Abdullah Al-Solami;

abdullah@advantions.com

Email: info@advantions.com, Web: www.advantions.com

