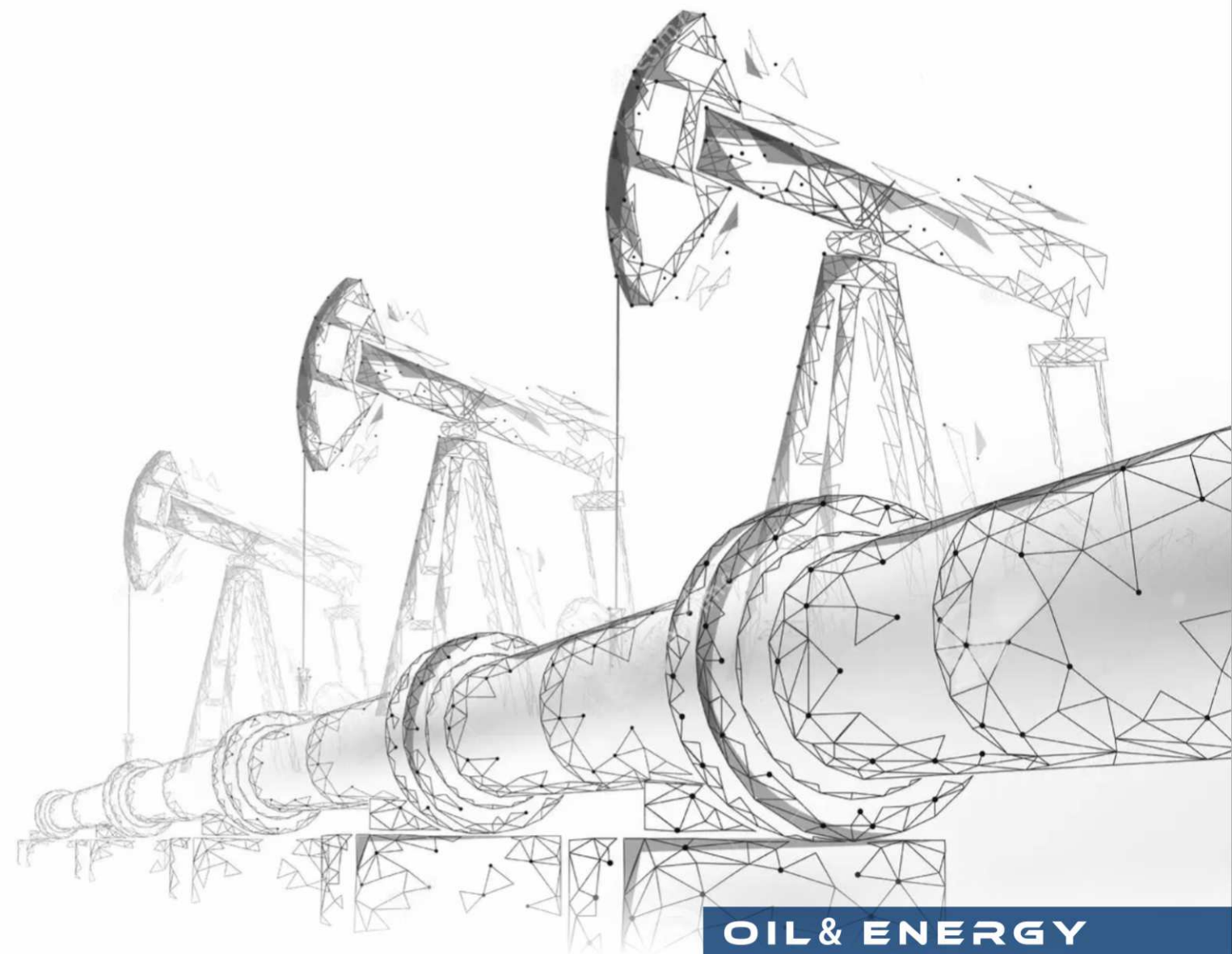


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SEHCO

صرح الابتكار الهندسي

EPC Contractor & Products Supplier



OIL & ENERGY
EPC Contractor & Products Supplier

TABLE OF CONTENTS

- ❶ Introduction
- ❸ Mission & Vision
- ❺ HSE
- ❽ Quality Control
- ❾ Fields of Services
 - ▶ Oil, Gas, Petrochemical
 - Mid & Downstream
 - Upstream
 - ▶ Power & Electricity
 - ▶ Water & Wastewater
- ❿ EPC Solutions
- ⓫ Supply & Official Agencies / Partners
- ⓬ Ongoing & Executed Projects
- ⓭ Certificates & Qualifications
- ⓮ Investment & Finance
- ⓯ Offices & Facilities

every Project
has its own Story



*Just Keep Swimming,
Never Give Up...*





INTRODUCTION

Sarh Al Ebtekar Al Handesi is privately held General Contracting and Trading Company providing Design, Engineering, Procurement and Construction Services, also Equipment Supply in the fields of Oil, Gas, Power and Water Industries.

We have gathered professional team from various countries with valuable experiences; in order to provide the best services according to international standards. SEHCO's executive team has managed lots of projects in Middle East Market and knows well the best solutions and local capacities. Strong Engineering Team is our advantage that take us one step forward in comparing to our competitors which enable us to provide better services with valued, accurate design and minimizing costs.

SEHCO is always looking for comprehensive cooperation to increase its capabilities and capacities, which has resulted in successful Partnerships with reputable Manufacturers, Packager Designers & Suppliers, Engineering Consultants and International EPC Contractors.

We are developing our Fabrication Facilities and standards to provide fast and high-quality services to customers and increase our efficiency as well.

Our company is recruiting different skilled manpower resources from Middle East that made us able to provide better quality and covering our customers in simultaneous working area.

Implementing latest HSSE instructions and training, receiving ISO 9001, 14001 & 45001 while keeping no major accident record in our projects, is what we proud of, improving that Safety is important for our staff, their family and all stakeholders.

We never stop Improving ...

MISSION

We are committed to ;
Delivering projects safely, timely, and economically with
high quality. Developing the skills and knowledge of our
employees in friendly and cooperative working
environment. Providing opportunities for the people in
region of project execution to help in their life quality

VISION

To be a socially responsible company which benefits all
stakeholders, from company shareholders to employees,
from clients to local people



HSE

Safety and health of its people, of local communities and of its partners are a top priority for SEHCO. SEHCO conducts its activities in accordance with international regulations, standards, conventions and all national/local laws and policies safeguarding the health and safety of workers.

SEHCO takes an integrated approach to safeguarding health and safety in accordance with principles of planning, prevention, protection and continuous improvement, investing all levels of Company with responsibility. We have developed comprehensive HSE Management System that meets the requirements of all applicable laws and is Certified to International Standards ISO 14001:2015 and OHSAS 45001:2018.

SEHCO's HSE Risk Management is based upon the principles of prevention, protection, awareness, promotion and participation. Its aim is to ensure health and safety of workers and to protect the environment and public's general welfare.

SEHCO recognizes that construction operations may have damaging impact upon the environment and therefore ensure that all construction activities are carried out in such a manner as to ensure high standard of environmental protection and awareness.

ENVIRONMENT

SEHCO is committed to the protection and enhancement of the environment. It takes close and responsible interest in, considers and respects the physical, economic and social environments in all projects in which it is involved.

An environmental action plan seeking continual improvement is produced on an annual basis setting out specific objectives, targets and implementation steps, with the progress routinely monitored, reviewed and reported to the board of management.

We aim to contribute towards environmental improvement and sustainable development by using best practice and innovation to minimize environmental impacts. Environmental impacts are assessed at every stage of business process in consultation with organizations working on behalf of SEHCO including designers, sub-contractors, etc. to develop agreed solutions that are sympathetic to the environment and community.

Plant a Tree
Green The Earth Clean The Air
Live Happily





QUALITY CONTROL

SEHCO implements its Quality Policy to become among first-class enterprises in Middle East by providing to its customers products and services with best quality. We utilize Quality Management System that satisfies all the requirements of ISO 9001:2015 Certification and ensures all employees understanding and abiding by its strict quality-assurance policies. We make every effort to provide the best quality with customer impression by being well aware of quality policy and accomplishing quality objectives.

FIELDS OF SERVICES

Oil, Gas, Petrochemical

MIDSTREAM & DOWNSTREAM

SEHCO 's team with 25 years' experience has been engaged in Design and Construction of Production, Storage and Transporting Facilities, Process Plants, Export Terminals, Pipelines, Pumping Stations, etc.

They have been involved in different stages of Refineries Development and possessed extensive knowledge and expertise covering all components of development of Petrochemical Units as well.

Today we can take care of every aspect of a project from initial concept to techno-economic studies, front end detailed design, upgrades and optimization plans, hazard and risk analysis, procurement, project management and site supervision.

We build long-term relationships with our clients, focusing on bringing every assignment to a successful completion, on time and with assigned budget.

STORAGE TANKS:

Design, Supply, Fabrication, Installation & Commissioning of Storage Tanks, in different types, sizes/capacities,

- Fixed/Floating Roof
- Cone/ Dome Roof
- Spherical Tanks

PIPELINES & PUMP STATIONS:

Design, Supply, Erection and Commissioning of;

- **Pipelines:** from 8" up to 46", providing high quality welders from Iraq and out side
- **Pumping Stations**
- **Valves Stations/ESD**

PIPING:

Providing **Piping Services** in Shop or Field along with shop drawings and as built-in, in different material such as C.S., S.S, Super Duplex, Alloy, with variety of thickness and pressures.

- **On/Off Valves, Motor Operated Valves (MOV)**
- **Control Valves**
- **Pressure Safety Valves (PSV)**
- **Piping Material (Fittings, Flanges, Fasteners, Gaskets)**

UPSTREAM - E&P / WELLHEAD SERVICES

SEHCO is developing its upstream department in cooperation with various Foreign Companies in the sector of Sub-Surface (G&G, Seismic, Reservoir Modelling), Drilling and Completion Operations, Engineering and Production of Oil & Gas (Green and Brown) Fields. Also, we provide Design and Procurement Services for Tailor-Made Upstream Equipment - Wellhead Equipment & Controls including;

- Wellhead X-Mass Tree
- Flowline Equipment
- Downhole, Completion Tools
- Control System: Wellhead/Local Control Panels
- Safety System: High Integrity Pressure Protection System (HIPPS)
- Chemical Injection System (CIS)
- API6A Valves
- Ancillaries

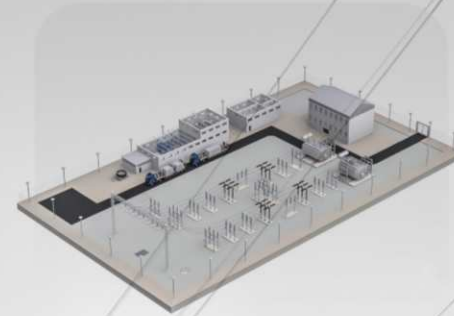


POWER & ELECTRICITY

SEHCO's power capability covers all aspects of thermal energy generation, transmission and distribution. In order to provide the correct balance of expertise to each client, our staff works in an integrated manner to utilize extensive range of skills. Our clients include private or public sectors and funding agencies. Our services range from start to finish for new power developments and across existing facilities. Transmission and Distribution provide multidisciplinary expertise at all stages of power transfer from generator to consumer. We have full range of skills in overhead lines, underground cables and substations and apply these at all voltages up to the highest in common use including high voltage DC. We follow all the stages of engineering process to provide critical evaluation and technical justification of recommended solutions.

Design, Supply, Commissioning and Testing of Electrical Equipment/Packages;

- Main Block; Installation of Turbines/GTG & Compressors
- BOP; EPC Schema of Fuel System & Storage, Piping, Mechanical, Electrical & Instrument Works
- Cathodic Protection System, Earthing, Cabling
- Transmission Lines up to 400 kv
- Sub-Stations
- E-Houses
- Switchgear & Electrical Panels



WATER TREATMENT

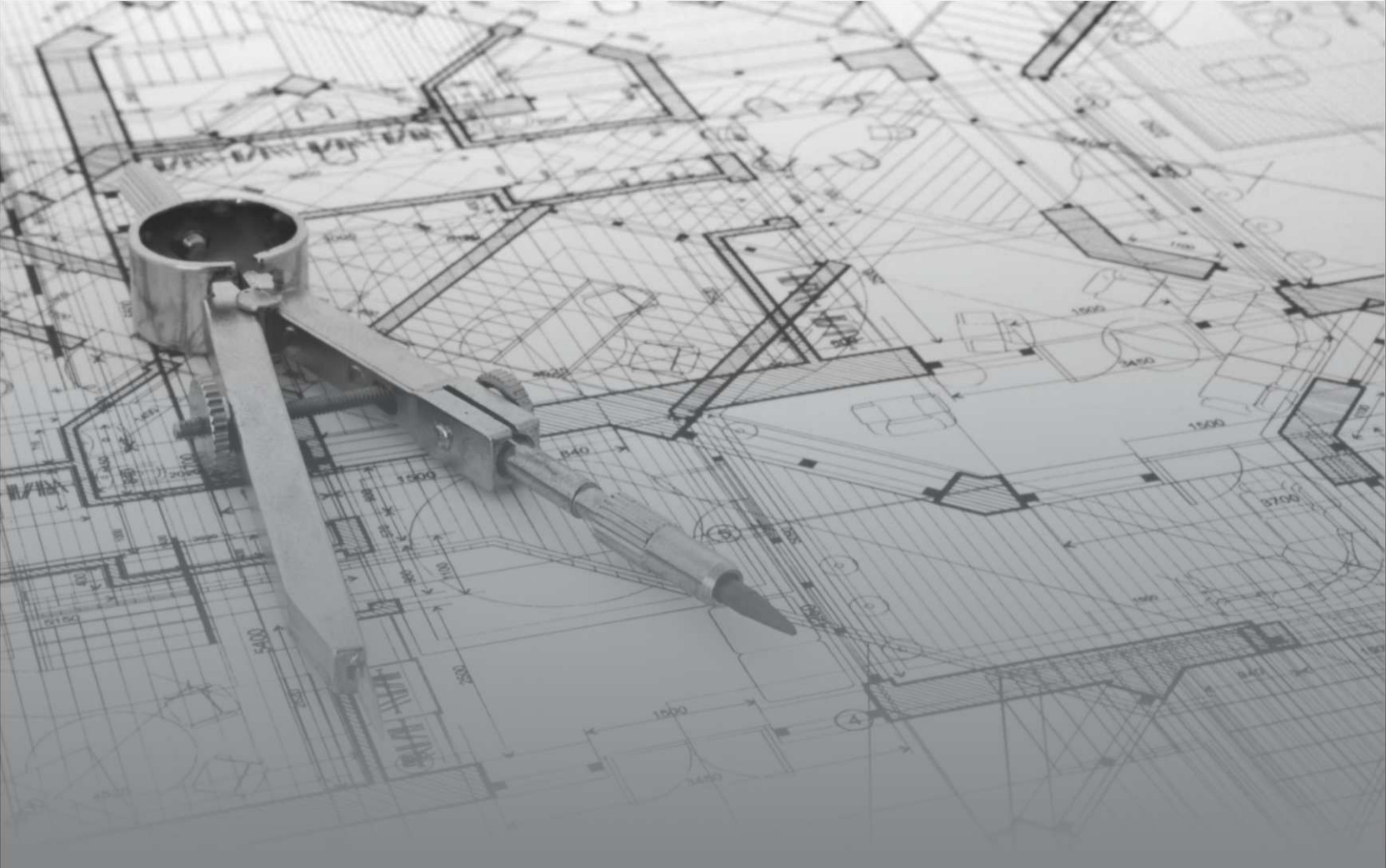
WATER & WASTE WATER

SEHCO in cooperation with its well-known partners, provide water and wastewater purification services from simple plants to large turnkey projects on an Engineering, Procurement and Construction (EPC) Scale.

We provide solutions commensurate with type of water and wastewater applications, whether the feed source is oily, chemical, cooling, boiler feed or any industrial plant. As an EPC Contractor; SEHCO has developed an unparalleled global sourcing capability and our highly trained field service engineers, located strategically in different geographical areas around the globe, ensure quality service in a timely and expeditious manner to help in realization of our core value of customer satisfaction, in following categories:

- R.O Units
- Residential/ Industrial Water Treatment
- Potable Water Treatment
- Oily / Wastewater Collection and Treatment
- Desalination





EPC SOLUTIONS

ENGINEERING & DESIGN

Hiring international staff and also cooperating with well-known Engineering Consultancy Companies, we provide multi-disciplined engineering and project management services including basic & detailed design, project management controls and estimating, shop fabrication and as built designs. Also, SEHCO serves its clients with mechanical packages' design which are provided by our high-quality Manufacturing Partners.



FABRICATION & PRE-FABRICATION

SEHCO has access to powerful and mobilized yards for providing fabrication solutions to Clients' capital projects. With the knowledge gained by self-performing fabrication, SEHCO can effectively manage Third Parties Inspections to meet fabrication standards in diverse industries. We provide our clients the flexibility of offsite fabrication and proven expertise to deliver compressed schedule and cost benefits of modular construction. Self-perform fabrication yards may be adjacent to the site or at remote locations, reducing onsite craft densities and shifting work to inherently safer and more controlled work environment as remote locations may offer cost and schedule advantages:

- Shop Design
- Plates & Structure Fabrication Shop
- Pipes Fabrication Shop
- Spool Fabrication
- Storage Tanks Fabrication Shop
- Test & Commissioning
- Maintenance



CONSTRUCTION

SEHCO supplies Clients with execution services for all project phases; with experts in the field of construction execution, including constructability, craft certification, industrial relations, modularization, welding services. We provide input into construction scope to optimize construction activities and to offer cost saving suggestions during all project phases. We are also available for project problem resolution at site.

SEHCO provides construction project management services using proven technologies, systems and work processes to provide optimal results for Clients. Moving towards the start of actual construction, we create more detailed plans, select appropriate sub-contractors, and begin practical measures such as hiring necessary staff.

Assembling thousands of workers and tens of thousands of tons of material, we use control systems to ensure being on schedule at maximum performance. SEHCO has done its best to deliver complex and challenging construction projects, on-time and within budget.



MAINTENANCE SERVICES

SEHCO provides fields services such as Maintenance and Manpower Supply to its Clients. Our standard procedures and instructions along with high quality Skilled Manpower, Engineers and Modern Equipment & Tools guarantees our professional outcome.

Our Capabilities fall into following Services:

- Pipeline Maintenance & Pigging
- Welding & Insulation Repair
- Cleaning of Storage Tanks and Mechanical Equipment
- Manpower Supply (Mechanical/Electrical Technicians, Welders, Supervisors)



INTERNATIONAL AGENCIES

AMERICAN COMPLETION TOOLS (ACT) - USA

ACT provides complete solutions for oil & gas industry by offering a wide range and High Quality of API6A/5CT/11D1/19AC Certified Oilfield Equipment from Pressure Control Equipment to Downhole Flow Control and Completion Equipment.

American Completion Tools Design and Manufacture the following using state-of-the-art manufacturing processes and the most advanced numerically controlled machining centers and facilities located in Texas available with highly trained machinists who take pride in producing quality products dividing into two segments; Surface and Sub-Surface:

- Wellheads/X-Mass Tree
- Choke, Cement & Kill Manifolds
- Stand Pipe Manifolds, Irruption Manifolds
- Valves; Choke, Gate, Surface Safety, Check, Mud
- High Pressure Fittings
- Pressure Control Equipment for:
 - Slick Line Operations
 - Coil Tubing Operations
 - Sucker Rod Operations
- Downhole Flow Control Equipment - Packers System & Accessories
- Completion Equipment; different pressure, temperature ranges and all types of Premium Thread Connections





Mechanical Works & Tanks Srl (MW&T) - ITALY

Engineering and Construction Company; having its activities focused in Oil & Gas and Water Treatment, providing high quality design in the followings:

- Process Plants
- Metering Skid
- Scraper Trap
- Waste Water Treatment Plants
- Automation Control System / SCADA
- Leak Detection System
- Instrument Packages



Gruppo Italiano Progettazioni e Realizzazioni Industriali - ITALY

G.I.P.R.I Srl is an Entity operating in Design, Construction of Skids/Packages/Units and entire Industrial Plants in Process, Mechanical, Electrical, Instrumentation, Automation and Control Sectors in following know-how technologies:

- Oil/Gas Separation
- Slop/Sludge Treatment
- Crude Oils & Fuel Electrostatic Desalting
- Natural Gas Dehydration
- Natural Gas Sweetening
- Sulfur Recovery Unit
- PIG Launching & Receiving Traps





C.R. Technology Systems S.p.A. - ITALY

Providing Turn-Key & Tailor-Made Products and Solutions, for the Production, Transformation, and Distribution of Energy;



- Switchgear MV AIS - ATR
- Switchgear MV GIS - ATR Ring
- Switchgear MV AIS - Normal Clad
- High-Voltage Electrical Substation
- Mobile Sub-Station
- ISO Container
- Photovoltaics
- Public Lighting
- Retrofit Solution
- SCADA Solution
- STC - Box
- STC - Kiosk



ATV GROUP - ITALY Advanced Technology Valve S.p.A (ATV)



Worldwide Affirmed Manufacturer of Valves and Actuators for the most demanding applications in Offshore Industry, such as Deep and Ultra-Deep Water, High Pressure High Temperature, Highly Corrosive Services, Hydrocarbons Processing, Pipelines; with Manufacturing Facilities, located in Colico, 100km north of Milan cover an area of 40.000M, Including:

- Subsea Valves & Actuators
- Onshore & Topside Valves

HYDROPNEUMATIC S.r.l (HP)



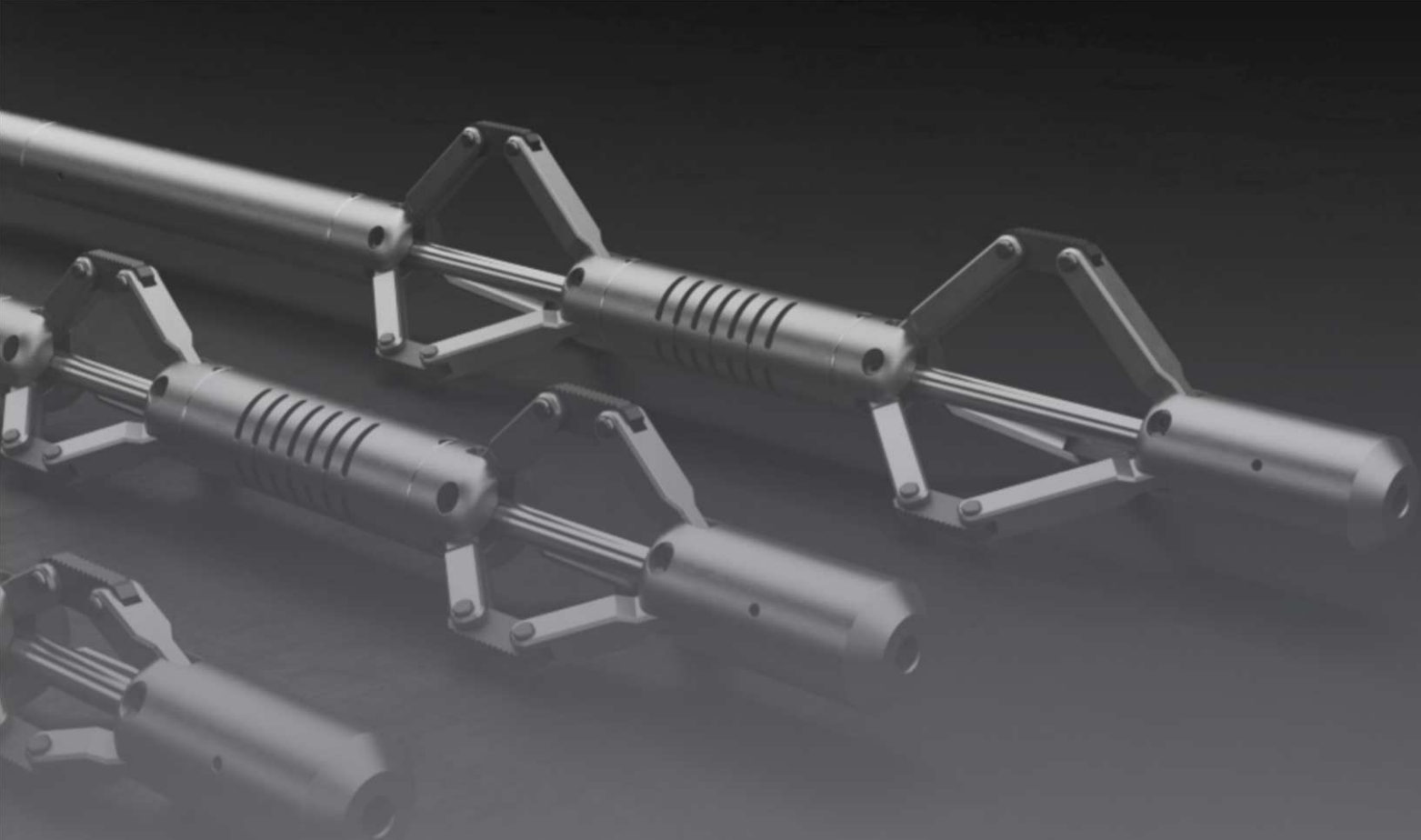
HP is preminent Designer and Manufacturer of Engineered and tailor-made Upstream Equipment;

- Control & Safety Systems; Wellhead/Local Control Panels (WHCP)
- Chemical Injection Packages
- Valves - Choke/Gate & Actuators

ATV HIPPS

Fledged System Integrator providing SIS (Safety Integrated System) Solutions, including, but not limited to, High Integrity Pressure Protection System (HIPPS)





ONGOING & EXECUTED PROJECTS

Pressure Typical Slickline Control Equipment

Location: Basrah, Iraq

Client: Basrah Oil Company (BOC)

Type: P

Scope of Work: Supply of:

Complete Typical Slickline Pressure Control Equipment String Rig-up with Accessories

- Complete Hydraulic Stuffing Box
- Complete Line Size Kit
- Light Weight Lubricator Section
- Test Cup 10000 Psi
- Quick Union Lifting Pail
- Complete Dual Hydraulic Compact Wire Line BOP
- Quick Union Pump
- Wellhead Adapter Flange
- Hand Pump Assembly
- Hydraulic Tool Trap Assembly



Wellhead Valves & Piping Material

Location: Nassiriyah, Iraq

Client: Thi Qar Oil Company (TOC)

Type: P

Scope of Work: Supply of:

- Gate Valve 2 1/16", 5000 psi
- Gate Valve 3 1/8", 3000 & 5000 psi
- Gate Valve 2 9/16", 5000 psi
- Gate Valve 4 1/16", 5000 psi
- Top Flange 3 1/8", 5000 psi
- Top Flange 4 1/16", 5000 psi
- Top Flange 3 1/8", 3000 psi
- Ring & other Accessories





Design, Supply and Installation Supervision of (9) Sets of Floating & Fixed Roof Oil Products Storage Tanks

Location: Basrah & Nassiriyah Oil Refineries, Iraq

Client: State Company for Oil Projects (SCOP)

Type: EP

Scope of Work: Engineering, Procurement, Fabrication and Installation Supervision of;

- 3x300,000m Double Deck Floating Roof Crude Oil Storage Tanks
- 1x7,000m Single Deck Floating Roof Reformate Storage Tank
- 2x10,000m Dome Fixed Roof Self Supported Storage Tanks for Raw Water
- 1x2,000m Single Deck Floating Roof Naphtha Storage Tank
- 1x5,000m Dome Fixed Roof Fuel Oil Self Supported Storage Tank
- 1x2,000m Single Deck Floating Roof Slop Storage Tank
- Lighting & Earthing System
- Cathodic Protection System
- Mixers
- Rim Seal Protection System
- Fire Alarm System
- Insulation



Design & Supply of (4) Sets of Floating & Fixed Roof Oil Products Storage Tanks with Ancillaries

Location: Daura Oil Refinery, Baghdad, Iraq

Client: Heavy Engineering Equipment State Company (HEESCO)

Type: EP

Scope of Work: Basic & Detailed Design, Procurement & Installation Supervision of 244,500BBL Storage Tanks;

- 88,000 BBL Fixed Roof Storage Tank
- 100,000 BBL Floating Roof Storage Tank
- 50,000 BBL Floating Roof Storage Tank
- 6,500 BBL Fixed Roof Storage Tank
- Instruments, Control System & RTG System
- Lighting & Earthing System
- Cathodic Protection System
- Paint & Insulation
- Rim Seal Protection System
- Fire Alarm System





Engineering, Procurement and Construction of the Connecting Points at PS2, PS3 & GTU and Gas Pipeline Route (ESDV)

Location: Basrah/Samawah/Najaf, Iraq

Client: Basrah Oil Company (BOC)

Type: EPCC

Scope of Work: Basic & Detailed Design, Procurement, Construction and Commissioning of;

- Completion of 24" Gas Pipeline with length of 340km
- Installation of (13) ESDV Stations in Pipeline Route
- Completion of PS2 (Gas Compression Unit)
- Completion of PS3 (Gas Compression Unit)
- Completion of GTU (Gas Compression Unit)
- Supplying & Installation of (13) NOs of MOVs
- Hot Tap Connections



SEHCO is Qualified and Registered
by International Oil Companies (IOCs)
and Main EPC Contractors:



CERTIFICATES & QUALIFICATIONS



INVESTMENT & FINANCE

The first step in choosing the best funding for oil and gas projects is to know what options are available. There are a number of different options; from the more traditional to alternative financing options. SEHCO offers project financing services, which includes Engineering, Procurement, Construction and Finance (EPCF), Build Operate and Transfer (BOT), Build Transfer and Operate (BTO). SEHCO provides a combined finance solution which is optimized due to market and client through its Financing Partner (Gulf Connection Trading located in UAE). Considering the Feasibility Study of each Project, Market Conditions and Risks, our Financing Partner would provide different models to our clients. Nowadays, a realistic assessment of the regional risks in order to provide a reliable and convincing model to attract investors and banks is one of the most important and essential steps of Investment. Our team will serve the customers from the initial steps of preparing a Pre-Feasibility Study till confirmation of Investors, Banks and Insurance of the Project.



FINANCING TARGETS

SEHCO through Gulf Connection Trading is ready to invest majorly on related Oil and Energy Fields as follows:

- Zero Flaring (Flare Gas Recovery Units)
- Gas To Power (GTP)
- Gas To Liquid (GTL)
- Sulphur Reduction Units
- Storage Terminals, Pipeline & Pump Stations
- Mini-Refineries, Process Units and Factories





SOCIAL RESPONSIBILITY

We share value with local communities;
SEHCO's policy is to hire Local Staff for each construction project, in order to share benefits of projects with the local community

OFFICES & FACILITIES

Headquarter - Basrah Office
Address: Behind Grand Millennium Al Seef Hotel, Al Wofoud St., Al Jazaeer District, Basrah, Iraq
Marketing and Procurement Team
Technical Team including; Engineering, Projects and Construction Management

Management - Baghdad Office (1)
Address: Arasaat St., Baghdad, Iraq
Management, Finance and Marketing

Administration - Baghdad Office (2)
Address: Behind Palestine Hotel, Al Saadoon St., Baghdad, Iraq

Shop and Facilities - Basrah
Address: Barjessiyah, Basrah, Iraq
Size:1500sqm
Including; Workshop, Fabrication Facilities, Warehouse, and Machineries

