



Gasco Engineering

Innovative Energy Sol utions

Delivering advantage, innovation and success

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Section 1 THE COMPANY

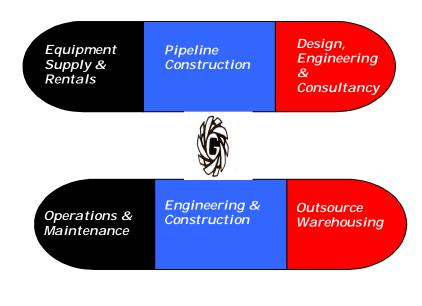
The GEPL Company

Oil and Gas production and transportation is a vital industry, critical to our energy hungry world. In Pakistan, Oil & Gas Industry was in very early ages and it was very much required to get things done on the ever-developing technology. On the contrary, the industry and end-use customer needed articulate, close to customer and prompt approach. This state of affairs led to the establishment of Gasco Engineering Services in 1990, in commercial capital of the country.

The demands were ever growing and service scope was extending. In order to expand its capital base and meet the increasing requirement of capital finance, more partners were taken in and were renamed in 1993 as **Gasco Engineering** (Private) Limited.

During these years, GEPL has gained an enviable reputation in the Oil & Gas industry with its efficient service and excellent postproject follow-up. It has carried out significant contracts for many, major Oil & Gas companies over the years.

Quality is a key factor in every project with internal, independent audits being carried out at each stage in the project life cycle.



The company has its registered office in Karachi.

GEPL Vision

To be the global oil & gas industry's premier facilities and infrastructure provider, admired by customers and employees for consistently delivering and rewarding excellence.

To achieve this, we will:

- Work to world-class standards
- Focus always on customer satisfaction
- Respect the environment and be sensitive to the communities in which we work
- Promote and reward on merit

GEPL Mission

To grow its business by providing competitive products with added advantage of close Customer service through professional people, expanding in full diversification and to exceed the expectations of every client through commitment to excellence, honesty and responsiveness.

Board of Directors

Following are the members of the Board of directors in Gasco Engineering (Private) Limited.

The Founder

S. H. Hadi Naqvi (Late)

The Founder of the Organization

Veteran and dedicated businessman with honest and sincere policies. Mr. S. H. Hadi Naqvi was a Commerce Graduate, started the business with very small capital and through his untiring objectivity and unprecedented determination & resolute, within a short period of time, earned a name and reputation for Gasco in Oil & Gas Industry.

He hailed from a small village of India and envisaged the energy need and the idea to provide value oriented service to the oil & gas industry started Gasco, with a vision to become the ultimate service provider in the oil & gas industry in Pakistan and internationally.

S. Perveen H. Naqvi

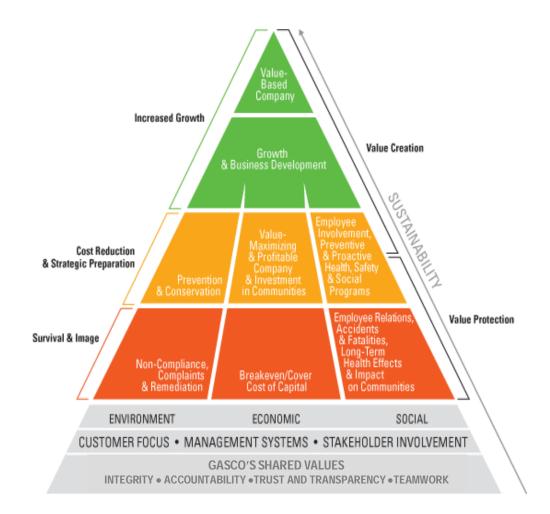
Managing Director of the Company

Directors

- S. Abbas Hadi Naqvi
- S. Faysal H. Naqvi
- 🚽 S. Raza H. Naqvi



- Anticipate customer requirements provide a broad and competitive range of products and services.
- Develop leading and new concepts coupled with beyond customer expectation services.
- ▲ Leverage core competency in Oil & Gas equipment.
- Invest in a balanced portfolio.



Building Long – Term value

- Growing installed equipment base
- ▲ Investing in transferable technologies
- Focusing on operational service efficiency.
- Expanding aftermarket service



Health, Safety & Environment

Safety

Gasco operates in difficult and hazardous environments and the safety of our people is absolutely paramount at all times. as an organization Gasco wants to eliminate accidents and injuries to people in all aspects of its business.

Environment

Gasco understands the importance of giving proper consideration to protecting the environment and is committed to conducting operations which minimize environmental impact. Gasco is continuously striving to make good progress in ensuring that environmental considerations are incorporated into project's planning as a matter of course. all new projects include an environmental planning element. Gasco activities and operations underline the requirement of environmental plans and/or impact statements from the outset.

Security

Given the diversity and remoteness of project locations, the security of our personnel continues to be a key issue and Gasco is committed to creating a safe working environment for everyone in our organization. to this end and as part of our approach to risk assessment and risk reduction, processes exist to ensure that our people travel only to locations where the security risk is understood and any mitigation necessary is in place and strictly complied with management teams are regularly briefed to aid their understanding of the changing threat levels at relevant locations.

People

Gasco is a people organization. people in our organization are our most valuable asset. it is our people that create Gasco's competitive edge and ensure that our customers' expectations are not only achieved but are exceeded. as an organization, Gasco believes that its workforce, management and recruitment policies should reflect the diverse communities in which we operate.

Gasco people are,

- 🖌 safe
- ▲ ethical
- innovative
- cost-conscious
- responsive to customers
- **4** & always focus relentlessly on delivering results.

Communities

We are mindful of our responsibilities to the communities where we operate and work hard to ensure that relationships with nongovernmental organizations, customers, suppliers, communities and governments are founded on the basis of mutual respect. Community support is delivered in many different ways. the major part of Gasco's support initiatives are focused on training and educational projects, an area where we believe we can make a real difference to the lives of individuals and to communities where we are present. we often work in disadvantaged areas and communities where educational provision is often poor or very limited and believe that the projects that we undertake make a demonstrable impact in these areas. We strive to be acknowledged by our industry as a standard setter in HSE management, an expert in delivering high health and safety performance from diverse workforces in challenging operational environments.

The Gasco management has ultimate responsibility for health and safety performance. This responsibility and the management's commitment to the achievement of health and safety excellence are foundations of our operations management system. Gasco members are committed to,

- ▲ a target of zero accidents
- ensuring our activities are not injurious to health
- promoting a culture in which all employees share this commitment
- transparency in the reporting of company's health and safety performance

SECTION 2 CLIENTAL

Organizations

Gasco has worked for many government organization, Multinational companies and private concerns of repute. Some of them are as under;

Government Companies

- Jui Southern Gas Company Limited, Karachi.
- Jui Northern Gas Pipelines Limited, Lahore.
- Oil & Gas Development Corporation, Islamabad.
- Pak Arab Refinery Company Limited, Karachi
- Pakistan Petroleum Limited, Karachi

Multi-National Companies

- BP Exploration & Production Inc., Karachi.
- ENI Pakistan Limited Karachi.
- OMV Pakistan, Islamabad.
- MOL Pakistan Limited, Islamabad.
- Orient Petroleum Inc., Islamabad.
- Petronas Carigali Pakistan, Islamabad.
- BHP Petroleum, Islamabad.

Private Companies

- Mari Gas Company Limited, Islamabad
- Fatima Fertilizer Co. Limited, Sadiaqbad.
- Engro Chemicals Private Limited, Daharki
- National Refinery Limited, Karachi.
- Pakistan Oilfields Limited, Rawalpindi.
- Fauji Oil Terminal Company, Port Qasim.
- Fauji Fertilizer Company, Sadiqabad.
- Fauji Jordan Fertilizers Company Limited, Port Qasim.

- J Fauji Kabirwala Power Plant Company Limited, Rawalpindi.
- Juberty Power Plant Company Limited, Islamabad.
- Petroleum Exploration Limited.

Offshore Companies



Sharjah Electrical & Water Authority, Sharjah UAE

Geco Mechanical & Electrical Limited, Sharjah UAE



Arwa Trading, Sharjah UAE

Sylhet Gas Fields Limited, Bangladesh

Tullow Oil, Bangladesh

All the projects and services provided by GEPL are the hallmarks of reliability, quality and assurance.

SECTION 3 ARBITRATION / LITIGATION

Arbitration / Litigation

Gasco has never given slightest displeasure to its clients, hence question of any Arbitration / Litigation do not rise.



SECTION 4 SCOPE OF WORK

Scope of Work

Services rendered by Gasco are very broad based and multifaceted.

Supplies

The material ranges from valves, in assorted size and volume, to turbines ad compressors. Quantity and bulk varies in cables, pipe and anodes of different caibre. Hi-Tec measurement and calibration equipment for pipeline, plant and consumer use.

- Analyzers, all kinds H2S, Oxygen, water etc.,
- Casing Pipes
- Cathodic Protection Material All Kinds, anodes (HSI, Magnesium), Splicing Kits etc.,
- Coating and Protection Materials
- Compressors (Gas) Centrifugal, Reciprocating
 - Wellhead Compression
 - Gas Gathering
 - Gas Storage
 - Vapor Recovery
 - Pipeline Booster Stations
 - Injection (Air or Gas)
 - 🧉 Gas Lift
 - CNG
 - Gas Process
- Chemicals
- Engineering and Supplies of Process Gas Plants
 - Dehydration Unit
 - Sulphur Recovery Unit
 - CO2/H2S removal-amine or membrane
 - Refrigeration
 - Cryogenic
 - JT fuel-conditioning skids
 - Diesel & gasoline refineries
- Pipe & Pipe Fittings
- Pressure Vessels

- Generators
- Instrument Air Compressors
- Insulators & Monolithic Joints
- LPG Cylinders
- LPG Filling / Bottling Plants
- Fittings, all kinds
 - Regulators
 - Spindle Sets
 - Valves
- Metering Station



- Production Equipment
 - Code & Instrument Manuals on Vessels
 - Control, Instrumentation & Valve Selection
 - Separators & Filtration
 - Gas Dehydrators
 - Line Heaters
 - Meter Runs
 - Gas & Oil Coolers
 - Environmental Solutions
 - Liquid Separation
- Scrubbers Vertical, Horizontal
- Separators
- Steam Boilers
- 🔺 Turbines Gas / Steam
- Valves Assorted
- And more









Engineering and Consultancy



Gasco offers an extensive range of engineering disciplines and houses a full-service design department implementing the latest technology. We utilize a project-based organization structure allocating resources to project teams. Our teams of project managers, construction managers, engineers, designers, and systems integrators specialize in all phases of project execution. Gasco's services include:

PROJECT MANAGEMENT

Project

Coordination/Interface Management

- Schedule Development
- Procurement and Expediting
- Safety Management and Support (HSE)
- Document Control Management
- Cost Control

CONCEPTUAL ENGINEERING

- FEED Studies
- Cost Estimating Feasibility
- Assessments Facility and
- Plant Upgrade Reviews

DETAIL & DESIGN ENGINEERING

- ▲ Civil/Structural
- Mechanical
- Process
- Electrical
- Instrumentation
- Subsea Systems
- Process Optimization/Debottlenecki ng
- ▲ Facility Upgrades
- Process Hazard Analysis Facilitation

PROCESS CONTROL AND AUTOMATION

- Control System Design
- PLC/HMI Programming
- Pre-Commissioning
- Start-Up

Ongoing Operational Support

PIPELINES

- Route Evaluation and Assessment
- Hydraulic Modeling and Simulation
- Stress Analyses for Installation and Operation
- Survey and Mapping

CONSTRUCTION MANAGEMENT AND INSPECTION

- Fabrication Oversight
- Installation Management
- Material Management

- ▲ Vendor Surveillance
- Offshore Inspection
- MMS Level 1 Inspection Surveys

OPERATION SUPPORT

- Process Reviews
- Hazard Assessments
- Commissioning
- Operation and Start-Up Manuals
- Turnaround Management and Support
- Incident Investigation Management
- Compliance & Process Safety Information
- Documentation Validation and Updating

Engineering and Construction

Through the delivery of world-class services, Gasco strives to add value to the activities of its customers and partners across the world.

With a team of more than 1,000 experienced personnel focused on delivering high quality engineering and construction services, we have the capability to design and execute across a project lifecycle.

Services include front-end concept, feasibility and commerciality studies together with full front-end engineering and design (FEED) capabilities.

We also provide extensive engineering procurement and construction services – from initial procurement, inspection and testing right through to installation and start-up services.

Services available within Gasco Engineering & Construction include:

- Consultancy
- Engineering design
- J EPC
 - Compression Stations
 - Gas Processing Plants
 - Early Production Facilities / Extended Well Testing Facilities
 - LPG Plants
 - Gas Pipeline / Flow line





Rental Equipment

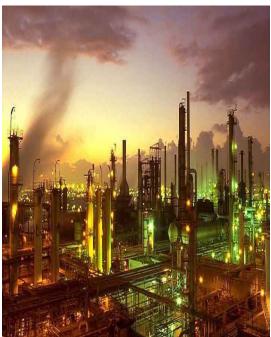
Consistency in economic policies, growth in the Oil & Gas sector and most importantly the ever-changing needs of the industry are evolving new avenues in the Oil & Gas sector of Pakistan.

The evolution of industry, in addition to creating new avenues, is giving the opportunity to companies like us to look beyond our usual surfaces and step into new ventures like providing equipment on the Rental Basis.

The concept of providing compressors, gas processing, treating, production facilities on Rental basis is not a new one to the Oil & Gas industry worldwide. Companies are offering services of this concept on a regular basis. However, definitely, it is the beginning of a new chapter in Pakistani Oil & Gas Industry.

Gasco is the first Pakistani company ever to be involved in a project of providing Gas Compressors, Gas Production/treating/processing Facilities on Rental Basis along with the Operation & Maintenance of the said facilities throughout the services life maintaining the highest quality, service and availability standards.





Outsource Warehousing

The interest & activities of multinationals in Pakistan have increased immensely over the past few years.

The evolution of Oil & Gas industry, where creating new avenues, is also providing the opportunity to companies like us to look beyond our usual surfaces and come up with the new ideas and concepts to serve the Industry.

The Industry is looking to cut down their overheads and surcharges as much as possible and is looking for ideas that can serve them to achieve the said.

Therefore, Gasco is working on developing the idea of OUTSOURCE WAREHOUSING on behalf of esteemed customers.

Outsource Warehousing will provide the companies with a convenience of not managing and replenishing their stocks on their own, to cut down on their surcharges, overheads and liabilities, and yet having everything lined up and managed for them.

Gasco Engineering (Pvt) Limited, maintains and take care of their stocks to compliment their operations unhindered and hassle free.



Venture Capitals / Development

Gasco Venture Development provides the platform through which customers can access our services under innovative commercial structures that ensure complete alignment. The division delivers investment support on upstream and infrastructure projects where we are providing engineering & construction or operations services.

Working with the owners of oil & gas assets, Gasco Venture Development combines the group's capabilities in the design, build and operation of facilities and infrastructure with a commercial approach to investment, which delivers innovative and effective development solutions and ensures complete alignment. Through the delivery of world-class services, Gasco strives to add value to the activities of its customers and partners. This performance-driven approach is reflected in the variety of commercial models through which Gasco Venture Developments leverages the group's service capability.

Gasco is prepared to risk its own capital, alongside that of its customers and partners and, in so doing, it ensures complete alignment with the objectives of the development. This exposure to the risks as well as rewards of a development's performance can be made in a number of ways, including concessionary structures (such as build-own-operate, gain-share arrangements, performance-driven service contracts) or direct equity investment.



Operations Services

Gasco Operations is active in all areas of Pakistan.

Gasco offers a team of highly trained specialists to manage operate and maintain our customers' equipment. Whether you own your equipment or have it on contract from us, our specialists care for all equipment as if it were property of Gasco – with dedication and enthusiasm. Gascooffers operations and maintenance solutions worldwide that increase our customers' production uptime. By completing equipment maintenance schedules on time, we minimize unscheduled repairs and breakdowns, thereby reducing overall operations cost.

Gasco also has an experienced support staff that is second to none, working directly with manufacturers to troubleshoot engineering and fabrication flaws or ongoing equipment problems. We can put together an operations or maintenance solution for most any type of natural gas or oil process application anywhere in the world, onshore or offshore. We can also track maintenance and inventory with sophisticated, advanced software and communicationstechnology. Applications we regularly serve include:

- Reciprocal Compression
- Rotary Compression
- Turbines
- Compression Stations
- Power Generation
- Process Plants
- Production Equipment
- Wellheads
- Remote Facilities



For experienced, dependable operations and maintenance, Valerus is your provider of comprehensive, worldwide natural gas handling services.

Pipeline Construction

Gasco Engineering is determined to become Pakistan's premier pipeline construction and maintenance company serving the Pipeline Industry throughout Pakistan and the Middle East.

We pride ourselves on our ability to complete our pipeline construction projects in a manner consistent with the utmost regard to environmental protection and employee safety.

Gasco has been serving the pipeline industry by providing safe and efficient pipeline construction and maintenance services.

Beginning in the mid-1980's, Gasco began an aggressive expansion effort while maintaining a dedication to the company's original goal of providing safe quality work; the same high standard of workmanship our customers had come to expect from Gasco Engineering.

Today, our reputation for safety, experienced personnel, quality, efficiency and jobs completed on schedule and under budget is second to none.

Value can't be found in only one aspect of your pipeline construction project, but rather in the balance and delivery of all of your priorities. No matter what arrangement fits your needs, Gasco provides you with an experience base that is second to none, a management team that understands preplanning and organized communication, and a quality result produced safely and on-time. Put Gacso Engineering's commitment to work for you and discover the meaning of value.

Our approach to all aspects of our pipeline construction projects has been adopted as our business philosophy, and as we state in all of our advertising --

"We're proud of our reputation -- ask those we have worked for."

SECTION 5 AFFILIATIONS

Affiliations

Gasco has been working for a long time in affiliation to the companies of repute of foreign origin.

Foreign

Some of our Principals are as under:

- ▲ Alfa Engineering S.r.l., Italy
- Allied Fittings & Flanges S.r.I., Italy
- ▲ Audubon Engineering, USA.
- Cameron Compression Systems, USA.
- J Delta Valve S.p.a., Italy
- Frank W Murphy, UK.
- J Omeca S.p.a., Italy
- Jetro Fiorentini, Italy
- Premier Fluids Systems, Canada.
- Piping Specialties, Canada
- Rolls Royce Power Engineering, UK
- J Spartan Controls, Canada.
- J Techno Forge S.p.a., Italy
- ▲ Telemagnetica S.r.l., Italy
- J UWG Group
- J Valerus Compression Services, USA

SECTION 6 PROJECTS

Client OM	V Pakistan Limited Karachi, Pakistan
Proj ect Name	Sawan-3 DBN Wellhead / Flow line Works
Description	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 11 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Year	April-May-2012
Execution Time	02 months

Client OMV Pakistan Limited Karachi, Pakistan		
Proj	ect Name	Miano-15 Wellhead / Flow line Works
Des	cription	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 6 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Yea	r	Apri-2012

Execution Time 30 Days

Client OMV Pakistan Limited Karachi, Pakistan		
Pro	ject Name	Tajjal-4 Wellhead / Flow line Works
De	scription	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 14.5 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Ye	ar	Jan-2012
Exe	ecution Time	02 months

Client ENI	Pakistan Limited, Pakistan
Proj ect Name	South Valve Station Remote Facility – Kadanwari Gas Field Pakistan
Description	 Mechanical Works Piping fabrication, welding Piping radiography, hydrotetsing Piping installation Electrical Works Cable Laying Loop Testing Instrumentation Works Instrument Calibration & Installation Tubing Installation Commissioning Piping system Electrical cables Instrument equipment, tubing etc.
Year	Feb-2012
Execution Time	e 1 Month

Clie	Client Eni Pakistan Limited Karachi, Pakistan	
Proj	ect Name	K27 Wellhead / Flow line Tie In Works
Des	cription	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 14.5 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Yea	r	Feb-2012

Execution Time 02 Months

	K6 Wellhead Compressor Installation Kadanwari Gas Field.
Description	 Compressor Installation Mechanical Works Piping Pipe Supports Local Vent Structure Civil Works Pipe Supports Compressor Foundation Vent Stack Structure Foundation Pre-Cooler Foundation Installation Works Compressor Pre Cooler Slug Catcher / Blow Case
'ear	Dec-2011
	e 30 Days
Execution Time	

Client Eni	Pakistan Limited Karachi, Pakistan
Project Name	K23 Wellhead Compressor Installation Kadanwari Gas Field
Description	 Compressor Installation Mechanical Works Piping Pipe Supports Local Vent Structure Civil Works Pipe Supports Compressor Foundation Vent Stack Structure Foundation Pre-Cooler Foundation Installation Works Compressor Pre Cooler Slug Catcher / Blow Case
Year	Aug-2011
Execution Tim	e 30 days

Client	Eni Pakistan Limited Karachi, Pakistan
Project N	ame K18 Re-Installation Wellhead tie in works Kadanwari Gas Field
Descriptio	 on - Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Control Panel Choke Valve Instrumentation Solar Panel / Arrays PT's, FT's, Cables & Tubing X-Mas Hydraulic Oil System Electrical Works Steel Structure Works Vent Stack Structure Control Panel Shed Choke Access Platform Wing Valve Access Platform Wellhead / Flow line Commissioning
'ear	Jan-2011
xecution	Time 30 Days

Client Fatin	na Fertilizer Company Limited, Pakistan
Proj ect Name	Supply, Design, Installation, Commissioning, Operations & Maintenance of 1700 HP Compression Station at FFCL Compression Site, Daharki Sind.
Description	 Compression Station Design Compressor Packages Piping Layout / Process Piping Civil Foundation / Pipe Supports Civil Works Compressor Foundation Pipe Civil Supports Mechanical Works piping fabrication, welding, piping radiography, hydrotetsing piping installation, hook up main trunk line tie-ins Installation Works compressor packages piping, valves and associated equipments Instrumentation Works cable laying, tubing installation control panel hook up, loop testing compressor packages control panel complete compression station
Year Execution Time	Feb - 2011 9 06 weeks

Project Namo	e Mechanical, Electrical, Instrumentation Installation Works of TGA Compressor at Tando Ghulam Al Remote Facility, Sind Pakistan
Description	 Compressor Installation Lifting and Assistance Leveling and Grouting Mechanical Works Piping fabrication, welding Piping radiography, hydrotetsing Piping installation Electrical Works Cable Laying Loop Testing Instrumentation Works Instrument Calibration & Installation Tubing Installation Commissioning Piping system Electrical cablesInstrument equipment, tubing etc.
Year	2010
	ne 1 Month

Client Eni	Pakistan Limited Karachi, Pakistan
Proj ect Name	e K24 Wellhead / Flow line Works Kadanwari Gas Field
Description	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 2 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Year	Nov - 2010
Execution Tim	ne 34 Days

Client BP P	akistan Exploration & Production Inc., Pakistan
Project Name	Mechanical, Installation Works of Missri Handling Facility at Missri ETF, Sind Pakistan
Description	 Installation Loading Arm, Air Compressor Generator, Horizontal Oil Tanks Pig Launcher, Separator Mechanical Works Piping fabrication, welding Piping radiography, hydrotetsing Piping installation Pipe Supports, Crossovers Painting & Coating Surface preparation Sand blasting Painting Commissioning Piping system Oil Loading Dock with pumps S Phase Separation Pig Launcher Generator
Year	2010
Execution Time	e 1 Month

Client Eni P	akistan Limited Karachi, Pakistan
Proj ect Name	K23 Wellhead / Flow line Works
Description	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 2.8 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Year	2010
Execution Time	32 Days

Client Eni	Pakistan Limited Karachi, Pakistan
Proj ect Name	K21 Wellhead / Flow line Works Kadanwari Gas Field
Description	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 3.7 Kms Pipeline Fabrication, Welding, Sleeving, sand blasting Radiography, Hydrotesting Lowering, FOC Laying, Backfilling Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Year	July - 2010
Execution Time	e 40 Days

Clie	ent Eni F	Pakistan Limited Karachi, Pakistan
Proj	iect Name	K21 Compressor Installation Kadanwari Gas Field
Des	scription	 Compressor Dismantling Dismantling of compressor from K18 Wellhead along with piping & instrumentation Transportation of compressor package from K18 wellhead to K21 wellhead Compressor Installation Civil Works Ground Preparation including grading, excavation, compaction, leveling Pipe Supports Compressor package foundations Mechanical Works Compressor installation & leveling piping fabrication, welding piping radiography, hydrotesting & installation Instrumentation Works Cable laying, tubing installation Control Panel installation, loop testing, hook up and commissioning Compressor Package Commissioning
Yea	r	Aug - 2010

Execution Time 21 Days

Client Eni l	Pakistan Limited Karachi, Pakistan
Proj ect Name	K19 Wellhead / Flow line Works Kadanwari Gas Field
Description	 Wellhead Construction Mechanical / Piping Works Civil / Foundation Works Instrumentation Works Electrical Works Steel Structure Works Pipeline Construction 5 Kms Pipeline Pipeline Civil Works Anchor Block Pipeline Markers Instrumentation Works FOC Laying & Installation Wellhead / Flow line Commissioning
Year	March - 2010

Execution Time 40 Days

Project Name	West Valve Station Up gradation Works
Description	 Cutting / Levelling of 25,000 cum Cutting / Levelling / Compaction of 95% of 40,000 cum Fence Installation Works – 1000 RM Civil Works Septic Tank Toilet Parking Area 200 m Access Road
Year	2010
Execution Time	ə 45 Days

Project Nan	ne K18 Wellhead Compressor Installation
Description	 Compressor Installation Mechanical Works Piping Pipe Supports Local Vent Structure Civil Works Pipe Supports Compressor Foundation Vent Stack Structure Foundation Pre-Cooler Foundation Installation Works Compressor Pre Cooler Slug Catcher / Blow Case
Year	2009
Execution T	ime 33 Days

C	Clie	ent Eni P	Pakistan Limited Karachi, Pakistan
P	roj	iect Name	Mechanical, Electrical, Instrumentation and Civil Works for 3 years on Call-Out Basis for Tajjal Concession, Sind Pakistan
D)es	cription	- Mechanical Works - Pipeline Construction - Electrical Works) - Instrumentation Works - Civil works
Y	'ea	ar	2009

Execution Time 3 Years – 2009 – 2012

COMPRESSION PROJECTS

Client Fatima Fertilizer Company Limited, Pakistan			
Project Name	Supply, Design, Installation, Commissioning, Operations & Maintenance of 1700 HP Compression Station at FFCL Compression Site, Daharki Sind.		
Description	 Compression Station Design Compressor Packages Piping Layout / Process Piping Civil Foundation / Pipe Supports Civil Works Compressor Foundation Pipe Civil Supports Mechanical Works piping fabrication, welding, piping radiography, hydrotetsing piping installation, hook up Main trunk line tie-ins Installation Works compressor packages piping, valves and associated equipments Instrumentation Works cable laying, tubing installation control panel hook up, loop testing compressor packages control panel complete compression station 		
Year	2010		
Execution Time	16 weeks		

Project Name	Supply, Design, Installation, Commissioning, Operations & Maintenance of 02 Nos Ajax DPC 2803 Gas Compressor Packages - 1320 HP for TGA and Tangri Remote Facilities, Badin Concession Sind.
Description	 Compressor Packages Ajax DPC 2803 Engine Ajax DPC 2803 Compressor Air X-Changer 156EH Cooler Associated Skids Valving Assembly Skids Emergency Shutdown Valves Blow Case Skid Air Compressor Air Compressor Air Receiver Control Panel Allen Bradley w/6" touchscreen
Year	2009

Execution Time 16 weeks

Client Eni P	Client Eni Pakistan Limited Karachi, Pakistan		
Project Name	Engineering, Design, Construction, Tie-In and Commissioning of Remote Wellhead Facilities & Compressor Stations at Kadanwari Gas Field, Sind Pakistan		
Description	 Engineering, Design, Construction and Commissioning of Remote Wellhead Facilities & Compressor Stations including Fabrication (Scrubbers, Pulsation Bottles etc.) Mechanical Piping / Installation Works Flow Line installation and Commissioning Mechanical hook ups and Tie-Ins Installation of Compressor Package Tie-In of Compressor Package Commissioning and start up of Compressor Package 		
Year	2008		
Execution Time	Project was completed in 1 month and 15 days - Engineering to Commissioning / Start Up		

Cli	ient Sylhet Gas Fields Limited, Sylhet Bangladesh.			
P	roject Name	Sylhet Compression, Sind, Pakistan		
D	escription	Engineering, Procurement, Packaging, Installation, Tie-In, Commissioning, Testing / Start Up, Operations & Maintenance of 01 No. Compressor Packages		
	Compressor	Cameron Superior MH62 Wouldosho 5714 with FSM		
	ngine Sooler	Waukesha 5714 with ESM Air X-Changer 16 EH		
-	Control panel	On-skid Murphy Panel With Scrubbers, Pulsation Bottles and accessories		

Year 2009

Execution Time 1 Year

Client Orie <u>Islar</u>	ent Petroleum International Incorporated, mabad, Pakistan
Project Name	Kausar / Umar / Usman / Naimat Basal Compression Project, Sind, Pakistan
Description	Engineering, Procurement, Packaging, Installation, Tie-In, Commissioning, Testing / Start Up, Operations & Maintenance of 04 Nos. Compressor Packages
Compressor	GE Gemini F604
Engine	Waukesha 7044 with ESM
Cooler Control panel	Air X-Changer 16 EH On-skid Murphy Panel
	With Scrubbers, Pulsation Bottles and accessories
Year	2007
Execution Time	Project was completed within 6 months - order

placement to start up of the compressor packages

	RONAS <u>istan.</u>	Carigali	Pakistan	Limited,	Islamabad
Project Name	Rehma	at 2 Wellhe	ad Compre	ession Proje	ect, Sind.
Description	Engineering, Procurement, Installation, Tie-In, Commissioning, Testing / Start Up, Rental Operations & Maintenance of 01 No. Compressor Package		Up, Rental		
Compressor Engine Cooler Control panel	Coope Coope On-skie	d Murphy F	C 600 d Single Fan		

Year 2007

Execution Time Project was completed within 7 months – order placement to start up of the compressor package

Client MOL Pakistan Limited, Islamabad, Pakistan			
Project Name	Project Name Makori Early Production Facility, TAL Block, NWFP.		
Description	Engineering, Procurement, I Commissioning, Testing / Start U		Tie-In,
Compressor	Cooper Ajax 2802		
Engine	Cooper Ajax 2802 LE		
Cooler	Cooper Standard Single Fan, Fo	rced Draft	
Control panel etc.	On-skid Murphy Panel with	Scrubbers,	bottles
Year	2006		

Execution Time Project was completed within 4 months – order placement to start up / testing of the facility

Client	Lasmo Oil Pakistan Ltd., Karachi.
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Project Name Kadanwari Gas Field Wellhead Compression Project

Description Engineering, Procurement, Commissioning, Testing / Start Up o 02 Nos. Superior Reciprocating Gas Compressor Packages and operations & maintenance (Compressors on Rental Basis)

> The scope included; engineering of compressor packages Supply of Compression Facility on Rental basis, Commissioning & Testing, Operations & Maintenance

Year 2003

Execution Time Project was completed within 10 months – order placement to start up.

Client Paki	istan Oilfields Limited, Rawalpindi, Pakistan
Project Name	Meyal Gas Field, Punjab
Description	Engineering, Procurement, Commissioning, Testing / Start Up of 01 No. Superior Reciprocating Gas Compressor Packages
Compressor	Cooper Superior RAM 52
Engine	Waukesha L7044 LT
Cooler	Ace 150EH Single Fan, Forced Draft
Control panel	On-skid Murphy Panel
Year	2005

Client Shar	rjah Electric & Water Authority, Sharjah UAE.
Project Name	SEWA Wasit Power Station Sharjah
Description	Engineering, Procurement, Installation, Commissioning, Testing / Start Up of 02 Nos. Superior Reciprocating Gas Compressor Packages & 02 Gas Turbines, Air Compressor & Transformers
Gas Turbine	Rolls Royce – USA Trend 60 MW each
Control Panel	RR Entronic Control
Compressor	Superior MH62 Model
Engine	Teco Westinghouse 1500 KW induction Type Motor
Cooler	ACE Single Fan, Forced Draft
Control panel	On-skid Murphy Control panel

Year 2006

SECTION 7 KEY AFFILIATES



Rolls Royce Power Engineering

Rolls Royce Power Engineering is a global company providing power on land, at sea and in the air. RR has created a substantial and balanced business through organic growth and targeted acquisitions. RR offer advanced technology products, systems and support to four main customer groups; civil aerospace, defence aerospace, marine and energy.

Rolls Royce industrial gas turbine systems have been supplied to the worldwide oil and gas industry for three decades. With more than 800 gas turbine systems sold and over 40 million man hours of operation. Rolls Royce is the undisputed leader serving the oil and gas industry. Rolls Royce provides the most advanced aero derivative gas generators available, combined with proven power turbines, compressors and the packaging know-how to create the Coberra line of gas turbines.

The company aims to provide its customers with a complete service, from the financing of the initial product sales to ongoing maintenance and after sales support. The financial services business comprises engine leasing, aircraft leasing and electrical power project development.



Cameron Compression Systems is a division of Cameron Corporation, which has its headquarters in Houston, Texas, USA.

Cameron Compression formerly known as Cooper Compression also has its headquarters at Houston, together with our sister companies (Cameron, & Cooper Cameron Valves). The key products of our company today are the Ajax and Superior compressor lines. Additionally, through our extensive Aftermarket business, we continue to support Cooper Bessemer (Reciprocating products), Enterprise, Penn (PPC), and Superior, engines and compressors. Production facilities include the Ajax facility at Oklahoma City, Oklahoma and on February 1st, 2001 we were proud to open a brand new, state of the art, compressormanufacturing facility at Waller in Texas.

Outside of the Americas, CES continues to be represented by main offices in London, Liverpool, Moscow, Dubai, Singapore, & Beijing. In addition we maintain local representatives in many countries in order to be accessible to our markets.

- Reciprocating Compressors
- Ajax Integral Compressors
- Screw Compressors



Valerus Compression Services, L.P. is a Texas limited partnership that was formed in October 2002 with the goal of becoming a leading provider of natural gas compression and associated services.

Valerus was formed by experienced professionals with extensive backgrounds in the natural gas compression and service industry. Valerus is a full service provider for the gas handling needs of the energy industry.

Valerus' worldwide services include sales, engineering, design and fabrication of gas compressors and production equipment, including technical and operational support.

a) Gas Compressor Packages

Valerus has full engineering capabilities for the sizing, design and manufacturing of virtually any type of natural gas compressor, including both reciprocating and rotary compression, onshore and offshore packages for either domestic or international standards.

b) Production Equipment

Valerus engineering is proficient with many types production equipment including:

- Dehydrators
- Separators
- Coolers
- Line Heaters

c) Processing & Treating Equipment

- Amine Dew
- Point CO2
- Treating

- Line Heaters
- JT plants
- Crude stabilization
- Nitrogen rejection

d) Pumping Equipment: Valerus provides turnkey pump system solutions for transfer, injection, or pressure boosting of process liquids. From small flows in transfer pumps to thousands of BPD or GPM in pipeline pumps to handle fluids pressured from a few PSIG to thousands PSIG.

e) Turnkey Solutions: Valerus has partnered with Audubon Engineering, a full service multi-discipline engineering firm, to deliver EPC projects providing superior engineering and design, reliable equipment, and extensive service for gas processing and treating.

By handling all phases of the project: Design, fabrication, installation, and service; Valerus can offer accelerated delivery and proven quality and dependability.

By mid 2007 Valerus has already packaged in excess of 1,000,000 HP.

In 2006 Valerus was named by the Houston Business Journal as one of Houston's Best Places of Work.

Audubon Engineering

Audubon is a full-service, multi-discipline engineering firm serving the Upstream, Midstream, and Downstream business segments.

Audubon Engineering, formed in 1997, is a professional consulting firm offering multi-discipline engineering design and drafting (process, mechanical, civil/structural, electrical and instrumentation); process control and automation; project management; procurement; construction management and inspection services to a range of Clients in the downstream, midstream and upstreamindustries. We operate from major offices in Houston and New Orleans and continue to grow as a company with a domestic staff approaching 200 people. As our company continues to expand its team of hard working professionals, we are proud of the talent and dedication we bring to our Clients.

Audubon Engineering is committed to meeting today's aggressive project schedules while maintaining unsurpassed quality control of our deliverables. We are dedicated to establishing Audubon Engineering as the leader in providing cost-effective solutions to our Clients in the Oil & Gas industry. Audubon Engineering is a technology-based engineering firm that has compiled many projects utilizing licensed processes or Client-supplied process technology. Specifically, Audubon's expertise is in process design, detail engineering, and management of full EPC projects.

Audubon capabilities, within each industry sector, are described below:

Upstream

- Fixed Offshore Facilities
- ▲ Wellhead Caissons
- Field Development
- Production Barges

- Tank Batteries
- DOI and DOT Pipelines
- Onshore Facilities
- Subsea Tiebacks
- Floating/Deepwater
- Sour Service
- Dehydration
- Compressor
- SCADA & Automation
- LACT
- SCADA & Automation

<u>Midstream</u>

- Transmission Pipelines
- Compressor/Pump Stations
- Meter/Regulator Stations
- Gas Processing & Treating
- Facilities
- Gathering Pipelines
- Gas Storage Facilities
- Production Storage Terminals
- Barge Loading
- Sulfur Recovery Units

Downstream

- Chemicals and Petrochemicals
- LNG
- Energy & Power Production
- Petroleum Refining



Spartan Controls offers a complete range of products and services to meet any process control challenge. For more than 35 years, Spartan has served the industry with quality products, technical expertise, after sales support, on-siteconsultation, service, and training.

When you choose Spartan, you benefit from the following advantages:

Responsiveness

- The right product at the right time.
- Full support services available 7 days/wk, 24 hrs/day to customer sites in Alberta, Northeastern British Columbia, and NWT.
- International support service for customer sites around the world.
- ▲ In-house repair and remanufacturing capability.
- Direct link to factory expertise for solving any process challenge or obtaining special-order equipment.
- ▲ In-depth customer training.

Knowledge

- Engineering expertise in process control solutions for the Oil & Gas, Pulp & Paper, Chemical, Utility, Food & Beverage, and other industries.
- ▲ Factory-trained service and configuration technicians.
- In-house SCADA and compressor panel integration.
- Assessment and performance tuning specialists.
- ▲ Valve automation expertise.
- ISO 9001-1994 certification at our Edmonton distribution facilities.
- CSA approval at our Spartech Manufacturing facility for inhouse certification of custom assemblies for general purpose and hazardous locations.

SECTION 8 ATTACHMENTS







This certifies that

Gasco Engineering (Pvt) Limited

HAS COMPLETED A TRACE BACKGROUND REVIEW

AND IS A MEMBER IN GOOD STANDING

September 1, 2010 - August 31, 2011

ALEXANDRA WRAGE, PRESIDENT



	Book No. A 08062 Serial No. A 806129	10-36 20-36
	MEMBERSHIP CERTIFICATE	40
	MEMBERSHIP NO. 59418	
	Name & address of Chamber of Commerce & Industry.	98-98 9
10-10 10-10	Association Aiwan-e-Tijarat Road, Off: Shahrah-e-Liaquat, KARACHI-74000 (PAKISTAN)	6
	(Affiliated with the Federation of Pakistan Chambers of Commerce & Industry)	
8 (8-9)8	CERTIFIED that M/s. GASCO ENGINEERING (PVT) LTD.	80-03
	501, Amber Estate, Shahrah-e-Faisal, (Kärächiedress of Member Firm / Company)	
	G.S.T. No	
	is a member of this Chamber Association	
		98-93 9-9-3 6855
	THIS CERTIFICATE shall be valid up to the	
	otherwise notified to the NTN / GST Registration authority / Scheduled Bank	86-30
	concerned.	36-23
	Given on this Olst day of APR 20 08	
	Signature of Secretary future for free	38-38
	Countersigned by	
	(native and designation)	
		10 . A

GOVERNMENT OF PAKISTAN COLLECTORATE OF SALES TAX (EAST ZONE) KARACHI CERTIFICATE OF REGISTRATION (Under_Sales_Tax_Act. 1990) (01) NAME M/S. GASCO ENGINEERING (PVT) LTD (02) ADDRESS 501, AMBER ESTATE, SHARAE FAISAL, KARACHI. (03) You have been registered as: 12/ Manufacturer Importer 1300 Distributer (5) Wholesaler Retailer Ghip Breakers This means that you must: (i) Charge Sales Tax on all taxable supplies made during the course of taxable activity. (ii) File a return in the designated bank relating to a month on or before the 20th of the following month. (iii) File a Nil - Return even if no taxable activity takes place during the current tax period. (iv) Abide by provisions of sales Tax act 1990; and rules made there under. (04) Your Sales Tax Registration Number is: 12-00-8544-002-82 (05) Date of Registration: 07-MAR-98 (March 07: Nineteen Hundred Ninety Eight This number must be shown in the tax return and on all the invoices (06) issued by you and quoted in all your correspondence with the Sales Tax Department. di In 713 ASSISTANT COLLECTOR (Sales Tax) (Registration & Information Division) . .

GOVERNMENT OF PAKISTAN REVENUE DIVISION CENTRAL BOARD OF REVENUE	
NATIONAL TAX NUMBER CERTIFICATE	
(Issued under section 20 of the Finance Act, 1999)	
Jational Tax Number (NTN) 0676604-8	
Name: GASCO ENGINEERING (PVT) LTD	
Address: 501 AMBER ESTATE BUILDING SHAHRAH-E- FAISAL KARACHI PHONE NO: 4547334	
Status/Nature: Company	
NIC/Firm Reg./Company Inc.Number. K-04910/1993-94	
This certificate shall be prominently displayed at a conspicuous plac the premises in which business or work for gain is carried on. It is required to be indicated on the signboard wherever it is affixed.	also
Date of Issue 04/10/2006	Chairman

QUESTIONNAIRE Ref. Commercial. ISE PAKISTA Pakistan vernment of TRADE CO IMPO This is to certify that Messrs....GASCO ENCINEERING (PRIVATE) LIMITED. Address 501, AMBER ESTATE SHARAH -E- FAISAL, KARACHI are registered as importers with the Chief Controller of Imports and Exports, Karachi, and have been allotted Registration No. W440954 until further orders. f. Acterel (SALAHUDDIN CHAUDHRI) Chief Controller of Imports and Exports. noncionical para la consulta de la c



K17 Flow Line, Wellhead Construction and Wellhead Tie-In & Associated Works

at



Supply, Installation and Commissioning of 3 Rolls Royce Gas Turbines

at

Bhit Gas Field Eni Pakistan Limited



Supply, Installation, Tie-In, Commissioning, Start-Up and Operations and Maintenance of 5Waukesha-GE Gas Compressor Packages

at

Kausar, Umar, Usman, Naimat Basal Gas Field Orient Petroleum International Inc.



Supply, Installation, Tie-In, Commissioning, Start-Up and Operations and Maintenance of 1 Ajax DPC 600 Compressor Package with Upstream Liquid Separation and Transport System

at

Rehmat Gas Field Petronas Carigalli Pakistan Limited





Supply, Installation, Tie-In, Commissioning, Start-Up and Testing 1 Ajax 2802 Compressor Package

at

Makori Early Production Facility MOL Pakistan Limited



Supply, Commissioning, Start-Up and Operations and Maintenance of 2 Superior RAM 54 – Caterpillar G3516 Wellhead Compressor Packages with Upstream Liquid Separation and Transport System

at



Supply, Procurement, Installation, Commissioning and Start-Up and testing of 2 RR Trent 60 Gas Turbines, Superior MH62 – Teco Westinghouse Induction Motor Compressor Packages, Air Compressors, Transformers, Sub-Station and BOP

at

Wasit Power Station, Sharjah Sharjah Electric and water Authority



Procurement, Installation, Commissioning and Start-Up and testing of Remote Wellhead and Compression Facility – West Valve Station

at





Re-Staging (Supply, Procurement, Re-Staging, Installation), Commissioning, Start-Up, Testing and Operations & Maintenance of Superior RAM54-Caterpillar G3516 Compressor Package

at



Flow Line Repair Works

at

SECTION 8 CERTIFICATES

SECTION 9 PROJECT COMPLETION CERTIFICATES

SECTION 10 ATTACHMENTS