



The Company

SHARGAN was established in 1994 to build an indigenous technological base for design, engineering as well as project management and technical services required by Oil, Gas & Petrochemical industries and other related industrial plants.

SHARGAN has emerged from the spirit of expertise, self-sufficiency and enterprise, inheriting a wealth of experience and professional expertise of more than 25 years of oil, gas and petrochemical industries in Iran.

SHARGAN has been approved by the Iranian Plan and Management Organization and also by National Iranian Oil Company to operate within the Oil, Gas and Petrochemical industries.



Areas Of Activity

SHARGAN Consulting Engineers is a private engineering and consulting firm. Its extensive experience encompasses the following:

INDUSTRIES

- Oil, Gas, And Petrochemical
- Water Studies
- Chemicals
- Pipe lines and tankages
- Utilities and off site facilities

RANGE OF SERVICES:

- Techno-Economic Feasibility Studies
- Design
- Detail Engineering
- Procurement Services/ Supply
- Expediting
- Site Supervision for Construction / Erection
- Start-up and Commissioning Services
- Project Management
- Project scheduling, Monitoring and Cost control
- Sitting Analysis Revamp/Retrofits
- Energy Conservation
- Advanced Control Instrumentation
- Architectural And Engineering
- Effluent Treatment
- Cathodic Protection Services





TURNKEY SOLUTIONS

SHARGAN provides complete engineering solution to its customers from Process Designing, Detail Engineering, Fabrication, Inspection and Dispatching to On-Site Erection, Construction and Commissioning.



SHARGAN SERVICES

SHARGAN'S broad range of capabilities stem from the extensive and specialized expertise of its personnel. At SHARGAN, the available capabilities and expertise are combined for achievement of total quality, efficiency and excellence in performance.

TECHNO ECONOMIC FEASIBILITY REPORTS AND DETAILED PROJECT REPORTS

SHARGAN'S project planning group has recognized competence for services on preparation of techno economic feasibility report, detailed project report, etc, for grass-roots projects as well as revamping of existing plants, staffed by experts in design, engineering, plant operation and commissioning, backed with extensive data bank, multidisciplinary support and computer aided operations approach.

DESIGN

SHARGAN'S process group has proven expertise in process development of basic design package and other process engineering function. It is backed up by the latest computer software programmes for process engineering calculation and process optimization. Equipments and processes are designed in main office by our experienced process and design engineers using both licensed software as well as our proprietary systems. Our extensive knowledge of various processes ensures that SHARGAN can supply cost-effective solutions for highly complex problems.



DETAIL ENGINEERING

Based on design package ,detailed engineering designs and documents are developed through deployment of process, civil, mechanical, electrical and instrumentation engineers for arriving at quantities and specification for ordering towards construction of a viable facility which is smoothly and efficiently operated and maintained.

PROCUREMENT

Pre-order and post – order function under procurement activities are planned, executed and monitored through a computer software developed in-office. The Procurement Group in **SHARGAN** comprises experts, drawn from various disciplines, backed up by a data bank that covers most of the reputed vendors and fabricators in Iran and abroad

FABRICATION

At **SHARGAN**, fabricators are selected to suit project requirements. Our contractors are selected on the basis of their quality of fabrication, knowledge of specifications and codes and the ability to deliver on time.

EXPEDITING

Local inspection establishment provides the required feedback when necessary. The services available include Third Party Inspection, Statutory Inspection under prevailing International regulations.

SITE SUPERVISION FOR CONSTRUCTION/ERECTION

SHARGAN has capability for supervision of Construction/Erection based on basic design package and detailed engineering activities.

START-UP AND COMMISSIONING

SHARGAN has a reputation for its in- depth and dedicated approach on commissioning activities which start after mechanical completion. In fact, during the design stage, **SHARGAN** commissioning experts review design, process control, interlock and safety system to ensure smooth commissioning of the operation. All care is taken to prepare operating manuals for quick and efficient start-up operations and delineating safe shut-down processes, maintaining the highest order of safety for men and machines

PROJECT MANAGEMENT

Each project is handled by our experienced project engineers. The work in with our engineers and designers to give the best to our clients. These engineers make sure that the project is delivered safely, on time and to budget.

PROJECT MANAGEMENT/SCHEDULING, MONITORING AND COST CONTROL

SHARGAN Project Management discipline has trained manpower resources and established capability, backed up by necessary project management information systems. The project execution module is geared up for coordinating of complete



design, engineering and procurement, inspection and expediting, stores management, construction, pre-commissioning and commissioning by means of a control system involving time, cost and quality.

SITING ANALYSIS REVAMP/ RETROFITS

Revamping/retrofitting of existing plants may be executed due to one or more of the reasons viz: technical problems of the process and/or equipment, augmentation of capacity, reduction in energy consumption, inherent design defects, operational problems, etc. By virtue of the expertise, developed through long association with internationally reputed licensors/contractors, SHARGAN is fully geared to undertake such assignments particularly in the oil, petrochemical and chemical sectors. The assignments cover such activities as the study of the existing plant operation, identification of areas requiring revamp/retrofit, framing up suitable alternative schemes, selection of the most economical and suitable revamping scheme by maximum utilization of existing equipment, design, engineering and construction .

ENERGY CONSERVATION/MANAGEMENT

SHARGAN has the capability to undertake energy audit assignments in oil, petrochemical and chemical plants. The section-wise end-to-end approach normally covers energy balance, evaluation of rating and existing consumptions against norms. The recommendation model is usually based on cost benefit criteria for optimized scheme.

ADVANCED CONTROL INSTRUMENTATION

SHAHARAN offers services in renovating instrumentation or retrofitting with modern instrumentation system for higher productivity, safety and energy conservation in the existing plant. Assignment have been executed for conversion from pneumatic systems to DCS systems.

ARCHITECTURAL AND ENGINEERING

SHARGAN'S professional architects provide services for preparation of master plans, sector plans, , architectural design of industrial and residential buildings.

SHARGAN engineers provide services for complete engineering water system including selection of the source of water, design and detail engineering of intake structures, treatment plants, pump houses, storage including overhead towers and ground systems for process and potable water as well as collection, treatment and disposal system for effluents

EFFLUENT TREATMENT

For effluents from the fertilizer industry and various chemical industry , the treatment model may be custom-oriented or a result of our experience.

CATHODIC PROTECTION SYSTEMS

Cathodic protection is a method in which the metal to be protected is made a cathode in an electro-chemical cell. The surrounding soil in the specially developed cell



is the anode. SHARGAN has proven expertise to provide cathodic protection system designs for underground piping, tanks, ,etc.