

Mohammad Jafar Afzali

Senior Rotating Equipment Engineer

CAREER SUMMARY

Over 18 years of experiences in various chemical, petrochemical, Gas and utility projects on compressors, pumps, gas & steam turbines in the execution and technical management, including feasibility studies & FEED packages, EPC work and rotating equipment Maintenance services.

PERSONAL INFORMATION

Date of Birth : April 20, 1974

Nationality : Iranian

Marital status : Married

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LANGUAGE

English, Farsi

PROFILE

Capable of working in an international project environment where working under pressure and time constraints are challenged with a solid base of technical knowledge and flexible thinking.

EXPERIENCES

Oct-2015 till present

Sales Director of Burckhardt Compression AG (locating in Winterthur-Switzerland) in IRAN

Activities:

Responsible for whole activities regarding new unit machine sales in Iran territory including:

- Order intake responsibility for compressor systems in Iran
- Responsible for identifying early stage opportunities
- Ensure proficient consulting and support regarding customized solutions
- Professional negotiations with end users and EPC's with the support of the Headquarter
- Carry out market reviews, market intelligence
- Leads and coaches the local sales team
- Measured on the country's market share development (per segment), order intake and its global margin content (both as EPC role and as end-customer role)
- Supports and coaches his people in the corresponding roles in the tender
- Preparation of commercial tender with having final advise of best pricing strategy with reference to local market
- Participates in FEED projects review with customers
- Compressor sizing and matching the best suit machine model with client requirement.
- Technical review of the customer inquiry, reviewing compressors data sheets and preliminary assessment, participation in HAZOP review meeting
- Participates in Detail Engineering Design projects

Dec - 2012 till Oct- 2015

SENIOR ROTATING EQUIPMENT LEAD ENGINEER in HEDCO INTERNATIONAL COMPANY

HEDCO IN BRIEF:

HAMPA Energy Engineering and Design Company, HEDCO, relying on vast experiences of its knowledgeable experts in the execution of oil, gas and petrochemical projects, has gained the potential to support the large scale national, and international projects. Utilizing the state of art technologies, HEDCO is able to execute the full scope EPC large scale projects including following services: - License & Know-how arrangement - Basic Engineering - Detail Engineering - Procurement Services - Construction supervision HEDCO has been certified as Level 1 Consulting company in the Branch of "Oil , Gas & Petrochemical" by MPO of Iran. Compliance of HEDCO's quality management system with the requirements of ISO-9001, ISO-14001, and OHSAS-18001 & ISO/TS- 29001 has been certified by TÜV Nord CERT GmbH.

Activities:

- Detail Design Engineering of rotating equipment and mechanical systems such as pumps, compressors, turbines, blowers, and bulk handling systems, mixers, agitators and other similar equipment .
- Manage Team Performance and Project Deliverables
- Reviewing Process data sheets and Project Specification
- Preparation and completion of Mechanical data sheets and inclusion of required data to enable the vendors to design and manufacture the specified item in Front Engineering Design (FEED) projects
- Preparation of material requisition complete with the necessary data from other departments and indicating the codes/ standards and spare parts requirements, test, and all other delivery conditions.
- Performing technical bid analysis and issue of purchase requisition for the selected vendor.
- Reviewing vendor documents and fabrication drawings and submit the comments and/or purchaser's approval.
- Offering engineering services during shop fabrication and during site installation and start up.

Work in projects as a HEDCO LEAD ENGINEER:

- AMMONIA and UREA PLANT .
- Lordegan & Zanjan Petrochemical company (AMMONIA & UREA)
- Ammonia plant is designed for producing 2'050 MTPD of liquid ammonia. About 90% of total ammonia production is sent at +25°C to urea plant for urea production. The remaining 10% of ammonia is sent at -36°C to cryogenic storage tank.

A single line UREA plant to produce 3,250 MTPD of UREA granules over a single line granulation unit using LICENSOR granulation technology as finishing section.

- Lordegan & Zanjan Petrochemical Co, UTILITY Plant.
- Zanjan Petrochemical Company, RAW WATER INTAKE AND PUMP STATION.
- FASA LDPE (LOW DENSITY POLYETHYLENE) Petrochemical Company.
- FASA LDPE Co, UTILITY Plant.
- PARSIAN C2+ RECOVERY & FRACTIONATION PROJECT

The Parsian C2+ Recovery & Fractionation Plant is designed to Produce C1, C2, C3, C4 and C5+ as PRODUCTS with the DESIGN CAPACITY of 80 MMSM3/D Gas as FEED.

Aug -2010 till Dec - 2012

SERVICE & WORKSHOP MANAGER of KSB Service Center (KSB Pumps GmbH) - IRAN

Activities:

- Supervision and Managing of whole operation of Workshop, Spare parts & Service Sales.
- Executing modifications / repair on various KSB pumps ranging from ANSI End Suction pumps to Multistage API pumps
- Supporting the Sales of new product.
- Making profitable offers in corporation with sales managers.
- Manpower planning and work preparation with respect of the technology teams.
- Following daily the progress of the ongoing and planned works.
- Make orders to sub-suppliers.
- Distribute the work in the service organization.
- Following the internal procedures concerning order intake, orders to sub-suppliers.
- Organize the monthly toolbox meeting concerning Safety.
- Organize and support the technology meetings concerning Quality.

Jan -2000 till Aug -2010

CHIEF ENGINEER (Latest Rank) of the Iran Shipping Line (IRISL)

Activities:

- MAINTENANCE, OPERATION, GENERAL INSPECTION & MANAGEMENT
- Initiates, implements, and manages the plant maintenance program based on best practices, with an emphasis on planning/ scheduling and preventive/ predictive maintenance.
- Establishes and maintains a computerized maintenance management system, spare parts and maintenance history of plant equipment.
- Reviews the P&ID, operation of plant equipment and systems constantly, to minimize unplanned downtime, anticipate solve problems in a timely manner, and to identify opportunities for improvement of:

- Marine Engines, (MAN, SULZER, B&W, more than 12000 bhp)
 - Engine Turbo Charger and Turbo Expanders (MAN, B&W,...)
 - Generators
 - MAN, YANMAR, HYUNDAI, DAIHATSU, SULZER..., more than 600 KW Diesel engine
 - Boilers –AALBORGE , SUNROD MARINE BOILER more than 7 bar (Oil Fired Automatic , Composite & Exhaust Boilers),
 - Compressors-HAMWORTHY , TANABE (V-Type, Reciprocating)
 - Fresh Water Generators, Simple single effect evaporator, Single Stage Flash Evaporator, Multi Stage Flash Evaporator, reverse osmosis system.
 - Pumps (Centrifugal, Reciprocating, Screw, Gear Type, and Axial Flow)
 - Valves & Control Valves (Globe , Gate , Butterfly , ...)
 - Sewage Treatment Plant Aerobic (Biological) Treatment plant, Physical-Chemical Sewage system
 - Air conditioning Systems consist of compressors, evaporators, condensers, expansion valves and etc.
 - Fridge Plants and all related systems
 - Purifiers Systems,(lub oil, fuel oil) ,alfa laval purifiers
 - Coolers(Plate & Tube Type)
- Work with all kind of hydraulic systems such as cranes (MacGregor), and all components and also pneumatic systems such as remote valve operating systems or engine control system.
 - Familiar with controlling system and its components such as pneumatic diaphragm control valves
 - Work with all type of maintenance program such as predictive Systems or planned maintenance.

ACADEMIC QUALIFICATIONS

1994-1999 B.Sc. Degree in Marine Engineering major in Maintenance of main and auxiliary machineries of ocean going vessels from college of Engineering, SISTAN AND BALUCHESTAN UNIVERSITY, ZAHEDAN, IRAN.

TRAINING COURSES

- 2001 Received Third engineering course by I.R.I.S.L Training Institute, according to STCW 95, approved by P.S.O of IRAN via INTENATIONAL MARINE ORGANIZATION.
- 2006-2007 Received Second engineering course by I.R.I.S.L Training Institute according to STCW 95, approved by P.S.O of IRAN via I.M.O.
- 2010 Received MARINE CHIEF ENGINEERING COURSE by I.R.I.S.L training institute

- MARINE CHIEF ENGINEERING TICKET approved by Iranian PMO (port & maritime organization) via IMO (International maritime organization) for all type & size of ocean going vessels
- Fundamental Pneumatic and ship's engines pneumatic control system by I.R.I.S.L training institute and Festo company
- Fundamental hydraulic familiarization and crane's hydraulic control system and practical training by I.R.I.S.L training institute
- Industrial fridge and cooling system training course
- Introduction to Organizational Excellence Model (EFQM) and Self-Assessment Techniques by A.g.R Certification L.t.d Sweden
- Advanced Medical first Aid
- Advanced Firefighting
- Survival Craft & Rescue Boat
- ISPS Code Certificate

In-depth knowledge of rotating equipment:

- Familiar with the ANSI, NFPA, ASME, ASTM, AWS, ISO, NACE and OSHA standards.
- Possess knowledge of the following standards, among others:
- API STD 610 - Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas Industries.
- API STD 617 - Axial and Centrifugal Compressors and Expander-Compressors for Petroleum, Chemical and Gas Industry Services.
- API STD 618 - Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services.
- API STD 682 - Pumps Shaft Sealing Systems for Centrifugal and Rotary Pumps
- API STD 614 - Lubrication, Shaft-Sealing, and Control-Oil Systems and Auxiliaries for Petroleum, Chemical and Gas Industry Services.