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FALCON ID # 16006

Oilfield Services / Senior Process /process Engineer

Residential Country : Brunei Darussalam      Nationality : India  
Resume Title : Senior Process Engineer      Notice Period : 60 Days

## EDUCATION

| Qualification | Institute / College /university    | Year | Country |
|---------------|------------------------------------|------|---------|
| B E / B Tech  | Govt.engineering College, Trissur. | 2002 | India   |

## CAREER SUMMARY

| Position                          | Employer                                 | Country              | From Month/<br>Year | To Month/<br>Year |
|-----------------------------------|------------------------------------------|----------------------|---------------------|-------------------|
| Senior Process Engineer           | Reputed Company                          | Brunei Darussalam    | 05/2013             | /                 |
| Senior Process Engineer           | Gazprom - Dubai, Uae                     | United Arab Emirates | 03/2012             | 05/2013           |
| Senior Process Engineer           | Ch2Mhill- Veco Engineering Abudhabi, Uae | United Arab Emirates | 04/2008             | 03/2012           |
| Chemtrols Engg , India            | Chemtrols Engg , India                   | India                | 03/2004             | 02/2008           |
| Gas Authority Of India Ltd (Gail) | Gas Authority Of India Ltd (Gail)        | India                | 04/2002             | 01/2004           |

## ADDITIONAL CERTIFICATE AND TECHNICAL QUALIFICATION

| Name Of The Course | Course Date | Valid Upto | Name Of Organisation |
|--------------------|-------------|------------|----------------------|
|--------------------|-------------|------------|----------------------|

Current Salary  
(Monthly In Usd): 9000

Expected Salary  
(Monthly In Usd): 11000

## Additional Skills :

12.9 Years Process Engineering experience; ONSHORE & OFFSHORE Oil Processing ,Gas Processing, Upstream Oil and gas projects and Produced water treatment and reinjection projects in Organizations like SHELL upstream, GAZPROM, ,CH2MHILL VECO Engineering etc.  
Technical Authority for Conceptual, FEED & Detailed Engineering of Upstream Oil and Gas projects, sour gas projects(H<sub>2</sub>Sremoval,Sulfur recovery units (Sulfur granulation).  
Highly Experienced in Greenfield development projects ,Brown field projects for design of oilfield production facilities for both onshore and offshore fields.  
Operation support of Onshore and Offshore facilities.  
Experienced in Artificial lift projects and Enhanced Oil Recovery concepts.  
Develop engineering scopes of work ,feasibility and concept studies, basic engineering and detailed engineering support, establishing Standards and Procedures etc.  
Conducting Incident investigations and Safety reviews to ensure HSE compliance and technical integrity in operations and engineering design.  
Flow Assurance, Pipeline design & Integrity assessments  
De-bottleneck studies of process facilities and systems..  
Exposure to HYSYSProcess Simulator Packages for Process Simulation, Multiphase Flow line Sizing, PSV Sizing, Selection & Relief Rate Estimation, Equipment Sizing, Instrument and Equipment Data sheets, Vendor Design and Data Review.  
Technical report and Presentation for Critical studies like Pipeline-Transient Analysis study, Fuel Gas availability/adequacy studies  
Hydraulics of Pumps, Gravity and Network Circuits; Network Hydraulic Verifications withPipesim.  
Experienced in design and plant support of Gas Treatment Packages(Amine Sweetening and Gas Dehydration, modified Claus process etc.)  
Participation and close out of Engineering design reviews ,HAZOP,HAZID, SIL, IPF reviews.  
Heat Exchanger Rating withHTRI,Flare Header design using FLARENET.  
Hazardous Area classification, Flare Dispersion analysis using SHELL FRED.  
Corrosion analysis using Honeywell PREDICT 7.  
Pre-startup safety reviews for Brownfield Projects  
Familiar with various codes and standards used in Oil and Gas Industry like API, NFPA,SHELL DEP etc.  
Reviewing the engineering documents made by the Contractor such as FEED/Detail Design, engineering drawings and requisitions, specifications, etc.

## Software competence:

HYSYS, ProMax, PIPESIM, OLGA, PSV PLUS, HTRI,SHELL FRED,FLARENET, HONEYWELL PREDICT 7.

Responsibilities:- Major responsibilities include Feasibility, concept selection and Front End Engineering Design (FEED) for in-house engineering projects which includes both offshore and onshore facilities. Also support of onshore and offshore assets to achieve the production targets, safe and reliable plant operation in line with company standards and Safety requirements and support on Brownfield modifications for operations.

Highly Experienced in Shell Opportunity Realization Program (ORP) from Concept, through FEED to Detailed Design for major projects.

Major responsibilities include development of feasibility and concept select studies, Concept select reports, Scope Of Work(SOW) preparation, Development of in-house FEED, basic engineering for Greenfield and brown field project deliverables.

Responsibilities include preparation of Major deliverables like concept select report, basis for design, scope of work preparation, Process Engineering flow schemes, process safeguarding memorandums, operating & control philosophies/Procedures, hydraulic simulations Reports, process simulations using Hysys, , equipment sizing and preparation of reports and procedures etc.

Review and approval of contractors documents during detailed design, design deviations, establishing Standards and Procedures.

Responsible for projects from Identify to execute stage, Engineering design reviews, P&ID review, HAZOP, Hazid, SIL workshops and IPF reviews.

Hazardous area classification, dispersion studies.

Responsible process technical authority of assets/Operations, Focal Point for Darat Onshore operations and Major Development projects.

Also responsible for the brown field modification ,approval of scope and related engineering.

Responsible for conducting incident investigations and safety reviews, close out of major safety fountain actions.

Conducting de-bottlenecking studies, Brown field modifications and Operation support, supporting the assets on pre-commissioning, commissioning, troubleshooting activities. Providing technical support to assets on operational

issues/ Safety fountain incidents.

Working experience on Operational Reliability Improvement Process (ORIPS) to support safe and reliable production/operations. Ranking the availability of critical equipments using ORIP tool to minimize the production deferment and planning the required brown field work requirements.

Worked on Emergency response team Selankir high pressure Well Annulus blow-out; conducted simulations, safety reviews on various options to stabilize the well from high pressure annulus leak.

Well experienced in pipeline projects and pipeline replacement projects (PRP), worked on the pipeline Integrity assessments/ De-Rating study, possible de-rating of red banded pipelines. Defining possible existing/New safety critical elements and demonstrating the ALARP for the safe use of de-rated pipelines. Pipeline maintenance and corrosion managements studies.

Conducting Facility reviews and Preparation of operating envelopes for assets which covers onshore and offshore facilities.

Providing training & coaching for junior process engineers and assuring the quality of junior engineers involved.

Major Projects;

Present in house project handling :-

-Danau Deep Gas field development (offshore)

Senior Engineer in charge of in-house concept select and FEED (on going offshore field development project) which includes new well tie ins, production facilities and crude export facilities and gas treatment facilities.

Responsibilities include identification of various concepts, Presenting the optimized concepts to stake holders and operations, preparation of concept select reports.

In-house FEED (lead team of 3 process engineers and trainees)

Responsibilities include;

Preparation of basis of Design, Process simulation using Hysys, process

simulation reports, Equipment

sizing calculation and report, process safeguarding philosophies, operating control narratives, P&IDs,

Process flow schemes, PSV sizing, relief and flaring study etc

-MOL replacement

Concept select Study(in-house);

responsibilities include, Evaluation of various pipeline routes, hydraulic simulation using Pipesim, Hydraulic simulation report, preparation of concept select report. Presentation of various options and selected concepts to stake holders.

Enhanced Oil Recovery (EOR) Project-

Worked together with global technology team for Seria EOR, Using chemical injection technology; Responsibilities include feasibility study, preliminary process scheme development, preliminary equipment sizing ,opportunity framing workshops, Preparation of concept report and scope of work.

Projects Handled:-

Sr. Process Engineer In charge of;

Champion & AMAPA:- New HP compression and TEG dehydration Project.

Detailed design , review and approval of contractors calculations, reports, key document approval, Review of deviation request from contractors, participation in Engineering reviews, HAZOP,HAZID,SIMOPS.

-Darat Produced water treatment and Re-injection facilities(FEED).

Review and approval of consultants documents with respect to the selected concept, company standards and design engineering manuals, verification of process calculations and process documents, interactions with subsurface team with respect to new injection water quality requirements and fracturing requirements.

Review and approval of design deviations and key documents.

Also involved in;

-Asampaya Gas lift Project. Ongoing Well tie-in projects.

-Facility Reviews;

-Darrat Pipeline integrity assessment projects and Pipeline replacement projects.

Responsibilities – Lead engineer responsible for Badra Oil field (IRAQ) development through Concept ,FEED and EPC. Managed PMC teams(8 nos) of process engineers on behalf of the company.

BADRA Full Field Development consists of Oil processing facilities ( 170,000 BOPD) and Gas Processing Plant (110MMSFD) with associated facilities.

Responsibilities include design approval ,verifying engineering design of consultants and EPC contractors on meeting the company standards and the project schedule. Review & approve Engineering documents like PFDs, P&IDs, Operating control philosophy, ESD philosophy, Data sheets etc.

Providing input to scope of work preparation during tendering stage ,Bidder meetings and technical clarifications during tendering stage.

Participating Hazop, Hazid,SIL, IPF review meetings.

Verifying and approval of project deviations during EPC stage.

Oil Processing facilities includes well heads, trunk lines, CPF including oil & gas gathering system, Oil processing system, water supply system ,Produced water treatment and waste water treatment system.

Review and approval of EPC (Petrofac) deliverables ensuring company standards, specifications and schedules, approval of design changes, Review of equipment design reports, data sheets, process simulations etc.

Gas Processing System with a capacity of 110 MMSCFD which includes Gas compression, Gas sweetening unit(Amine package), dehydration packages(TEG), Sulfur recovery units (Sulphur granulation), tale gas treatment, LPG extraction storage & loading facility., LPG export. Responsible for the Engineering activities from FEED and EPC stages.

Conducted design and P&ID reviews and approval of long lead items at Samsung head office in Seoul.

Review and approval of EPC ( Samsung Engg.) deliverables ensuring company standards, specification and schedules, approval of design changes

Worked as Process Lead for Front End Engineering stage and EPC of Oil Export pipeline Project , Gas export Pipeline Project , Infield Well Head tie-ins and Trunk line Project, Water intake and Treatment system, Produced water treatment system Projects with contractors like CPPEC, Nama Mott Macdonald, Punj Loyd Engineering etc.

Worked as Concept Process Engineer, part of ADCO In House Engineering team.

#### Major Projects Involved–

CONCEPT STUDY MENDER Field Development :- To summarize the surface facilities options screening and recommends the selected option/sub-option for Mender field development.

Mender field will be developed by a total of 79 wells (46 oil producers, 29 water injectors, 4 water supply wells). The sustainable oil production expected from Mender field is 20,000 BOPD with a corresponding gross liquid production of 53,000 BLPD (sustainable).

CONCEPT report summarizes key features of options/sub-options, including cost estimates determine CAPEX and OPEX for all the considered cases also addresses the operating and control philosophy, corrosion and material selection, risk assessment and HSE reviews.

Qusawirah Phase -2 – Conceptual Study for 30,000 BOPD field Development.

Study of the Feasibility of using the Existing CPF facilities to Process the Oil Produced from Qusawirah phase -2.

#### Major Projects

AHDEB OIL FIELD SURFACE FACILITIES DEVELOPMENT - IRAQ ( Detailed Engineering for China Petroleum Engineering Co.)

AHDEB is a field development project with a capacity of 120,000 BOPD estimated oil production for Al Waha Petroleum company IRAQ with CPECC.

The project scope includes Re feed and detailed engineering of Oil field facilities which includes well heads, trunk lines, CPF including oil & gas gathering system, Oil & Gas processing system, water supply system ,water treatment system.

Gas Processing System(GPS) with a capacity of 43 MMSCFD which includes gas

sweetening unit, Sulfur recovery units (Sulphur granulation), dehydration, LPG extraction storage & loading facility., LPG export.

## Responsibilities

Sr. Process Engineer, Activity includes process simulation of CPF, Gas processing system (GPS) and water supply and treatment facilities using HYSYS, preparation of Heat and material balance. Hydraulic calculation of the system, line sizing, Review design requirement and schedule. Interacting with vendors to finalize the Long lead items and meeting the project specs as per standard.

Design of 3 phase separators, heat exchangers, pumps, K.O drum and flare system. PSV selection and sizing.

P&ID and PFD preparation. Preparation of process simulation reports and hydraulic calculation reports, preparation of operating control philosophy and commissioning and pre commissioning manuals.

Participation in HAZOP and incorporating the HAZOP recommendations.

## Calvalley Petroleum (Yemen) – Conceptual study/Feasibility Study

Feasibility study for the construction of crude oil pipeline from Block 9 to block 4, project scope is to study the feasibility of a 300 Km pipeline to transport stabilized crude.

Which includes finalization of pipeline size and pump selection, requirement of intermediate pumping stations, optional heater requirement, for various production scenarios, determine CAPEX and OPEX for all the considered cases.

Responsibility includes hydraulic verification using PIPESIM for deferent scenarios and optimize the line size, develop project cost estimate.

Pump selection and discussion of the advantages of each destinations.

Comparison study for the cost effectiveness of the project against the current trucking cost.

Preparation of final feasibility report.

## ABBR (FEED) Project – GASCO, Abu Dhabi, UAE

## Responsibilities

Sr. Process Engineer, Feed design verification of Asab NGL plant. Activity includes simulation of NGL unit, steady state hydraulic analysis, transient analysis, Plant adequacy checks which include turbo expander & heat exchangers(HTRI), PFD/PID developments of modification and new equipments and facilities , flare adequacy checks, report making, updating of mechanical and instrument datasheet and line list verification.

### PETRONAS -PRE FEED – GARRAF Light Oil Pipeline Crude Evacuation System

Project scope is Pre Feed, LO pipeline from Garaaf to Nasiriya Depot, project scope includes

optimization of pipeline size and requirement of intermediate pumping station

## Responsibilities

Lead Process Engineer, responsible for Hydraulic analysis of the system using Pipesim, Material selection and corrosion mitigation study, depressurization calculations, selection of scraper launcher and receivers, preparation of operating manual, commissioning and pre commissioning manual,.

### Mirfa - Ruwais Gas Pipeline Project ( FEED) – GASCO, UAE

Front End Engineering Design of 42 Km Nitrogen gas pipeline project from Mirfa to Ruwais.

## Responsibilities

Hydraulic analysis of the pipeline using Pipesim, depressurization calculations, selection of scraper launcher and receivers, preparation of operating manual, commissioning and pre commissioning manual, relief load summary etc.

### BIDA AL QEMZAN FIELD DEVELOPMENT PROJECT (FEED) – ADCO, Abu Dhabi.

BQ is a field development project with an estimated capacity of 20 MBOPD . The project is gathering the oil from 15 oil wells and transport it to the nearest processing facility & associated facilities with 10 water injection wells.

## Responsibilities

Sr. process Engineer, Activity includes process simulation using HYSYS, hydraulic verification of the system , line sizing, surge analysis, pump selection, PSV Sizing and selection, Flare header design, sizing of closed drain/ knock out drum. Equipment & instrument datasheet preparation. Preparation of P&ID,PFD and line list. Also include the Utility system design (Instrument air package, nitrogen generation package and corrosion inhibitor injection package) .

Coordination with different equipment and skid vendors to meet the client requirements for the desired performance . Preparation of Operating control and shutdown Philosophy, Commission and pre commissioning manual etc.

Participation in HAZOP and incorporating the HAZOP recommendations.

Field Development - New Well Head Projects in BUHASA, SHAH and BAB , ADCO, Abu Dhabi .

## Responsibilities

Lead Process Engineer, Wellhead tie ins of ESP wells, , natural lift wells, gas producer wells, gas injection wells and water disposal wells, responsibility includes PFD/PID development, hydraulic checking, , , Flare sizing, preparation of mechanical and instrument datasheet and line list preparation,

Coordination with different equipment and skid vendors to meet the client requirements for the desired performance . Preparation of Operating control and shutdown Philosophy, Commission and pre commissioning manual etc..

Ruwais Expansion project , TAKREER Refinery, Abudhabi

Detailed engineering for new sea water cooling system for refinery, responsibilities include Hydraulic calculations , line sizing, surge analysis.

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Major Tenders Handled:-

PETRONAS GARRAF Field development – Prepared the process engineering scope of the tender also prepared basic simulation model in HYSYS to define the scope. Participated in the tender meetings and prepared the process engineering deliverables needed to complete the FEED.

#### Major Projects

##### Refinery upgradation Project (KRL)

Involved in expansion and modification Sulphur Recovery Unit, MCRC unit (Modified Claus recovery concept) in sulphur recovery unit of refinery.

Responsibilities includes hydraulic calculations of DHDS expansion project, preparation of process simulation model using HYSYS, Debottlenecking of various process lines. Adequacy check of pumps ,heat exchangers and utilities. Detail analysis on the problems which is occurring in the day to day operation of SRU and amine recovery section due to low sulphur crudes, troubleshooting and trial running of SRU.

##### Sree Sakthi Paper Mills ETP Project, Kerala, India.

Responsibilities(Role in Project: - Process/ Project Engineer)

Detailed engineering activities of Effluent Treatment Plant, Upgradation Project. Activity includes hydraulic verification, instrument datasheet and line list preparation, Material selection, Preparation of engineering diagrams like P&ID, PFD, MSD and DPTD, Erection and Commissioning of the plant

#### Additional Information :

##### Trainings undergone:

Shell Design Engineering Manuals(DEM1 & DEM2),

Process Safety Basic requirements (PSBR) ,DCAF &PCAF

HYSYS steady state modeling for oil & gas

PROMAX Training for Amine sweetening and Dehydration Packages.

Training on Environmental management system, ISO 14001

BOSIET- Offshore Training

IMS- HSE training for senior staff.

PROFESSIONAL QUALIFICATION : Bachelor of Technology (Chemical Engineering) –

2002.

INSTITUTION : Govt.Engineering College, Trissur.

ASSOCIATE MEMBER : The Institution of Chemical Engineers (IChemE)