

# Rahul Jain, AMIE (Mech), CFPS

## PROFESSIONAL Engineer- Fire ( NFPA)

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### Personal details

Nationality : Indian

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### Professional summary

Engineering Management Consultant having specialization in Fire protection, process safety & loss Prevention Engineering. I have more than 22 years' experience primarily in onshore projects (in the field of Oil & gas, Power plants, fertilizers, petrochemical, buildings, warehouse, industrial occupancy) related to fire protection system design and process safety studies. I am a confident individual with excellent organizational, presentation, communication & negotiation skills. I am proactive, focused, and dedicated to my work. My work demonstrates excellent understanding of subject and meets the client high expectations.

I have been involved from concept design to commissioning work, which includes concept design , FEED and Detail Engineering design activities (in line with NFPA , FM or client specific requirement) such as Basis of Design, fire protection Philosophy, Loss prevention design basis, consequence modelling , QRA study, fire water system design , flare radiation calculation, fire proofing , Hazardous area classification , Shell DEP & GPSA standards, Preparation and Updation of PIDs and PFD. I am proficiency with engineering software packages; pipe net, flaresim , DNV Phast, Sound plant , PHA Works.

I have conducted HAZID review for projects an dalso participated in various safety review in project like 3D Piping model reviews, SIL, HAZOP, HAZID, SIMOPS, Constructability reviews.

As a lead engineer my role includes managing process safety & loss prevention team , reviewing all safety deliverables, Progress meetings, Engineering-Construction meetings, Technical presentations to senior management / Clients / EPC Contractor / detail engineering contractor on various technical subjects, scope of work, bid clarifications.

### Professional qualifications/registration(s)

Master of Financial Management (MBA-Finance)

Associate Engineer (CEng- I -Mech)

### Education

MBA finance- University of Mumbai , India (Aug 2002)

AMIE – Mechanical, Institute of engineers (India) (May 1996)

### Memberships/affiliations

Associate Engineer ( AIE) – Institute of Engineers India (Membership no A-516002)

CFPS CERTIFIED, CFPS Registration number : 4654

### Languages

English, Hindi,

## Trainings:

Process Hazard Analysis (HAZOP, PHSER), Bow tie, SII study, PIPENET, Team Building Exercise, Lead Engineering development, Report Writing, Physical effect modelling / Consequence modelling (DNV fast), QRA study, ALARP assessment, Flare radiation & dispersion (flare-sim software), PDMS, Newis works, Presentation skills.

Solar Power system design training from GSES, New Delhi

## Specialised Skills

- Certificate Course in PIPING ENGG. Through CAD from IIT Mumbai.
- Familiar with PDMS, PIPENET, DNV Phast, Flare sim, Sound plan, PHA Pro.
- Well conversant with Windows -10, Ms-office 2016 & AutoCAD Release 2015, Navis view
- Familiar with accounting procedures, Balance sheet work, Management Control systems, project planning & scheduling techniques.
- Experience in Fixed Asset valuation work, ROI calculation, Budgetary costing for a project.
- Design Experience in PV solar grid tied roof top & hybrid system

## Employment history

### Present Job profile

CEO cum Technical safety Head under consultancy firm "Vaishali Engineering & Consultancy Services".

#### June 2016 to Till date

#### Job Responsibilities:

Managing & supporting all design engineering activities related to process safety, Concept development, GAP analysis of Existing fire protection system, NFPA, FM, IS code based Fire protection system design, project engineering, bid preparation, Project management, technical meetings, site visits, Inspections related to buildings/ industrial projects Fire protection system design, loss prevention, safety audits/ safety studies, certification of fire system design, EPC work management, CCTV, Fire Alarm, access control design  
PV solar system design, clean energy solutions

#### Project Handled:

Suzuki Auto Plant, Mehsana, Gujrat, Ramangunda Fertilizer Hot oil heater unit Thermax Pune Substations jobs, Watech Nigeria, Mahindra warehouse, Bhutan power station, Girdih Substation, Salma Dam, Afghanistan, (through BHEL Subcontractor)  
L & T Hydro carbon – Saudi offshore eplatform

### Past Two Job Profile

Name of Employer : **M/s AMEC Foster Wheeler, SHARJAH**  
(Leader in Concept, FEED and PMC in the field of Oil & Gas)

Position Held : Lead Loss Prevention Engineer

Year of Service : **May 2015 to April-2016**

Job Responsibilities : Perform as PMC Lead Technical Safety Engineer for SIBA Gas field development project, Iraq, (Value \$800M), process Licensor: UOP, Client : Kuwait Energy Limited

Handling FEED engineering with UOP concept design document, Detail engineering of Long Lead items, ensure HSE design aspect compliance in EPC detail engineering. Participate in all process safety review, HAZID, Bow tie, HAZOP, SIL Design review, Plot plan, 3D model review. Review the EPC contractor EPC deliverable. Guide the contractor engineering team to develop the safety engineering documents. Coordination with other disciplines to guide and verify the HSE design implementation in project design.

Name of Employer : **M/s PETROFAC (E&C), SHARJAH**  
(Leader in EPC PROJECT in the field of Onshore Oil & Gas)

Position Held : **Principle Engineer-Safety Design,**

Year of Service : From Jan-07- May-15

Job Responsibilities : Lead HSE Engineer for GC -29 KOC Kuwait Project (Value \$700M),  
Lead HSE Engineer for Jazan refinery NTF & STF project (Value \$1400M),  
Client: Saudi Aramco

Leading team of loss prevention, safety, environment engineers & designers. Participation in all HSE reviews, HSEIA audit, preparation of TDR, managing safety studies by coordinating with specialist third party consultants, preparation & review all HSE, NFPA/ Saudi Aramco standard based fire protection system design related documents, approval/ certification of design document from chartered engineer.

Engineering activities as senior safety engineer and lead engineer HSE design for the projects included but not limited to Preparation and Reviewing various safety studies / loss prevention documents -viz;

- Design Safety Philosophy
- Consequence modelling, Gas dispersion study COMAH, FEHA report, QRA study, ALARP, SIMOPS study
- Layout study with safety separation related inputs,
- Hazardous area classification schedule and layouts according to IP 15 / API 500/505
- Passive Fire Protection Design as per API-2218/client std
- Fire protection system philosophy, active Fire protection design, Engineering, PIDs, layouts
- Design of water spray system, Foam systems, Sprinkler system in line with NFPA / KOC
- Hydraulic calculations of Fire water systems through pipenet software
- Specification for Hydrant-monitor, water spray and foam suppression system
- Gas suppression system design, fire vehicle specification etc.
- 3- D model review – PDMS and PDS, Ergonomics study
- Portable fire extinguishers, safety equipment, safety signs layouts, EER strategies.
- Preparation of flare radiation calculation to finalise the flare stack height and sterile radius,
- F & G system design philosophy, Preparation of fire zone drawings
- F & G mapping study, detectors location mark ups, F & G cause and effect chart
- Reliability & Availability study review
- Preparation of inquiry requisition of HSE related scope, MTO
- Technical bid evaluation, Vendor offer review and coordination
- Environment Design studies like EIA, Noise mapping , Emission dispersion;
- HSE action tracking register and action close-out report

Liaison with process, instrument, civil, electric, and other engineering disciplines including coordination with value engineering centre for HSE systems implementation.

Support in preparation of budgetary proposal and bid documents related to loss prevention and safety studies.

### **Details of Previous Work Experience**

- From January May 2015 to April 2016, worked **as a Lead Loss Prevention Engineer - in AMEC Foster Wheeler, Sharjah**, work as a Lead HSE Design and PMC lead engineer in SIBA project, FEED & detail design development ,
- From January 2007 to May 2015, worked **as a Principle Engineer - Safety Design in Petrofac E & C, Sharjah** , work as a Design HSE Lead in EPC project, FEED design,

#### **Major EPC Project Handled As Lead HSE Engineer**

- KOC New Gas gathering Center GC-29 North Kuwait, Value \$700M
- Jazan Refinery Tank farm, Saudi Aramco, value \$ 1400M  
Handling North tank farm project comprising more than 90 Fixed roof/dome roof storage tanks (dia from 20 meter to 56 mtr range) and South tank farm project, having 7 nos of FR storage tanks (dia 108 meter).
- FEED and EPC project, Majnoon Field development. Iraq , SHELL – value- \$900M

#### **Major EPC proposal handled (as group leader HSE proposal Team)**

- INSALAH Gas, Algeria, value \$600M , Client BP; ARZEW LNG, Algeria, \$ 3000M
- KOC BS-160 , Kuwait, \$550M
- Jihar Gas field , GTP, Syria, \$ 450M,
- EL Merk – CPF, Algeria, \$2400M
- ADCO ASAB , \$ 2400M; NGL 4th train , GASCO Abudhabhi, 2200M
- SHAH Gas Development, GASCO , Abudhabhi, \$4000M
- Jazan refinery Saudi Aramco (\$2000M)
- Star Refinery , Turkey (\$ 2500M)
- Yamal LNG , Siberia proposal (\$6000M)

#### **Major FEED/ conceptual study work handled**

- FEED for KLPE project, Kazakhstan (\$1200M)
  - FEED for EL Merk , Algeria (\$2200M),
  - FEED for Jihar Gas field Syria (\$450M)
- From January 2001 to Jan 2007, worked **as a Executive Engineer – Piping , Specialist Engineer in fire protection system in M/s UHDE INDIA LTD., Vikroli (W), Mumbai**

#### **Major EPC project handled**

- IOCL LAB Plant Baroda- AS PMC of IOCL
- Gulf Farabi- Saudi Arabia , as detail engineering- Lead HSE engineer
- KNPC, Kuwait, IOCL MSQU,
- MRPL tank farm upgradation, Kanoria Chemical - PMC
- Hindustan Zink , Udaypur- Detail engineering
- Shiraz ammonia storage, Iran- EPC project
- Sanjna Cryogenic storage, - EPC project

#### **Conceptual study –**

- Supreme Petrochem, Mumbai
- Deepak Fertilizer , Paradeep

- FEED and tender preparation, IOCL Panipat
- From Sep.2000 to Oct 2001 **as an Engineer – Mechanical (PSREG) in Dalal Consultants & Engineers Ltd.** (Now Mott Macder), Worli, Mumbai

**Major project or FEED/ conceptual study work handled**

- IOTL, Mathura, Oman Oil tanking , IOTL Koyli, Baroda (as PMC role);
  - Wayet Pharma , Goa; JNPT Mumbai
  - Taj Wellington Mews residential Apartment Hotel, Mumbai
  - Goa Energy Power plant
  - MPEB hydel power station Tons & BS-III
- From April 1997 to Sep 2000 **as an Engineer- Design & Project Co-ordination In Vijay Safety Systems Ltd. Mumbai,** (Pioneer in Fire Protection & Safety)

**Major project handled**

- 25 MW Captive Power Plant ACC Kymore, and Jamul M.P., India
- 3X105 MW Hydel power Plant (M.P.),India , ICICI Bank Corporate house Mumbai, MRPL, Manglore, India; Nirma tank farm , Baroda ,
- ICICI Bank Corporate house , Wockhardt Ltd Corporate house , Mumbai