

MANU K RAJEEV

SENIOR E&I ENGINEER

PETROLEUM DEVELOPMENT OMAN LLC, MUSCAT

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SUMMARY

- A graduate Engineer with 11 years of professional Experience in Instrumentation and Control field with multi discipline aspects such as **Engineering, Construction, Commissioning** of Oil-Gas wells, Refinery and petrochemical Industries in different **EPC** Companies.
- Experience in the central processing facilities, On-shore Oil & Gas operation, CS/GRE/DSS Pipeline project, Refineries & Petrochemical complex, Fertilizer plant in Installation, Testing and Commissioning of field instruments with Distributed Control Systems (**DCS**), Emergency Control Systems (**ESD**), **F&G** Programmable Logic Controls (**PLC**), Compressor Control System (**CCS**) and **SIS**
- Familiar with Distributed Control Systems like
 - I. **ABB 800Xa**
 - II. **Honeywell Experion PKS C300**
 - III. **Yokogawa Centum CS 3000**
 - IV. **Emerson Delta V**
- Familiar with **HART, FOUNDATION FIELD BUS, PROFIBUS, MODBUS Protocol**.
- Familiar with specification (**SHELL DEP, ARAMCO, PDO SP, SABIC, SADARA, DOW CHEMICALS, IEEE, IEC, ISA** etc.)
- Experience in Smart Plant Instrumentation (**SPI**)/IN tools.
- Procurement of Tools, Materials, Instruments and Test Equipment as per the Specification and requirement within the allotted Budget.
- Carry out manpower allocation, Instrument Calibration, Cable Tray and Conduit Installation, Cable pulling Scheduling and execution, Instrument installation, Cable testing and Termination.
- Performing Factory Acceptance Test (**FAT**), Site Acceptance Test (**SAT**) and prepare stimulations, test scenarios and test documentation.
- Experience in loop checking, SIS validation and Function Test.
- Experience in Functional Logic Tracking and trouble shooting.
- Strong knowledge in configuration, calibration and field troubleshooting of Control valve with electro pneumatic and smart Positioners. (**FISHER, FLOWSERVE**).
- Hands on experience in **HART** and **Foundation Fieldbus** Instruments by different manufacturers.
- Experience in **F&G** System construction and commissioning, Extensive knowledge on wide range of F&G Systems to identify the Engineering issues, recommend and implement solutions, take lead role in providing higher level technical-assistance.
- Ensure all activities are undertaken in compliance with Company Safety, Health and Environment Quality policies, regulations and standards.

ACADEMIC CREDENTIALS

- ❖ **B.Tech.** (Electronics & Communication engineering) from Saintgits college of Engineering, Kottayam, Kerala, Mahatma Gandhi University (2007-2011). Secured First Class with **7.2** CGPA.
- ❖ XII from St.Peter's Higher Secondary School, Kottayam, Kerala, State Board in 2007 with **89 %**.
- ❖ X from St.Peter's Higher Secondary School, Kottayam, Kerala, State Board in 2005 with **90%**.

EXPERIENCE SUMMARY

➤ Current Employment (December 17, 2017- Till Date)

Organization: **Petroleum Development Oman (PDO).**

Designation: **Senior Project Engineer - Instrumentation**

Location: **Muscat, Sultanate of Oman**



❖ **Major Projects executed.**

1. OMC (OFFPLOT MECHANICAL Contract)– New Well Delivery

Role:

- Controlling all the site activities, Subcontractor and material arrangement to 3 sites according to the priority of the job.
- Plan, Schedule the activities Daily, weekly and monthly basis and do the arrangements in advance.
- Identify effective ways for increase the productivity and progress of the project.
- Leads the execution on site, manages the interfaces with other departments and operation.
- Ensure the team exactly following the SHELL DEP standard and Coordinate with QA/QC team.
- Liaise with engineering team to solve Site Technical Queries (STQ).
- Ensure all the activities are done according to the Company safety plan.
- Monitor work progress and report to Higher Management also attend Weekly meeting with Contractor Team.
- DCS vendor coordination and analyse field technical issues.(Honeywell Experion,Yokogawa Centum)
- Modification of Datasheets and ILD using SPI/IN Tools
- Monitor the Construction Check sheets status (Zenator System) for each activities and ensure the Progress.
- Identify the site modification and reflect the changes in AFC Drawing and make ASBUILT.
- Follow up Mechanical Construction Completion (MCC) Certificate, Ready for Commissioning (RFC) Certificate Etc. in timely manner.
- Prepare/Verify the Final Test pack.

➤ Previous Employment(July 2014 to-Aug 5 2017)

Organization: **Daelim Industrial Corporation LTD.**

Designation: **E&I Engineer**

Location: **Al Jubail Industrial City, Kingdome of Saudi Arabia**

DAELIM

❖ **Major Projects executed**

1. SADARA CHEM-2 ISOCYNATES PROJECT (JV of Saudi Aramco & Dow Chemicals)

Role:

- Verify the Received Electrical and Instrument Items are matching with Approved drawings and datasheets.
- Cable tray installation for medium voltage and low voltage.
- 34.5 KV Cable pulling Planning, scheduling and execution.
- Rack room MCC room Panel erection and Installation supervision and control.
- Monitor both power and control cable termination in Substation and field side.
- Coordinate with Substation and Field lighting supervisors to finish the work within the scheduled time.
- Coordinate with Electrical Panel (Switchgear &MCC) Testing Engineer and Submit the Testing Certificates within the scheduled time.
- Coordinate both Substation supervisor and loop check supervisor for MCC Loop check, Motor Solo Run and Function Test.
- Monitor and regulate Electrical Solo Run.
- Review and approve typical Loop drawings, System wiring Diagrams, system cable schedule, IO Assignment with respect to Control Narratives, Logic Narratives, Cause and Effect, Cabinet Drawing Review etc.
- Co-ordinate with Remote Design Office for major changes and modification.
- Perform Instrument Calibration, Installation, Instrument Panel and JB Installation, Wiring both field and Panel side, Pneumatic Tubing Installation and Pressure Testing.
- Performing FAT, SAT, Documentation, Implement and Test I/O in FF and HART, Loop checking, check ,Control functions, Sequence, interlock &Cause& Effect, Function Test and Validate SIS & ESD System, Turbine/**Compressor control systems (CCS-Woodward)**
- Hands on Experience in **ABB 800Xa** DCS system. Both Fieldbus and HART, also Rockwell SIS system.
- Manages and ensures timely review of construction progress and issues to enable efficient “Pre-Start Up safety Review” (PSSR) is carried out with no / minimal outstanding points.
- Submits a daily and weekly progress report.
- Act as an Interface between Various Vendors and company, also coordinate with Automation Contractor. Perform SAT.

- **Previous Employment (June 2012-July14)**

Organization: **Saipem Snamprogetti Saudi Arabia Ltd**

Designation: **Instrument Project Engineer**

Location: **Al Jubail Industrial City, KSA**



saipem

❖ **Major Projects executed**

1. **SAFCO-V UREA STAND ALONE PROJECT – SABIC**
2. **SATORP (SAUDI ARAMCO TOTAL REFINING PROJECT)-JUBAIL EXPORT REFINERY(JERP) PROJECT**

Role:

- Cable Tray Installation, Panel Installation, Instrument Installation, Cable pulling Scheduling and execution, Cable termination, Raise requisitions for special tools / materials required for vendor / contractor packages.
- Served as Lead Engineer and carryout Calibration, Installation, Commissioning and Troubleshooting for all type of field instruments such as Pressure, Temperature and level transmitters,(**Rosemount,Yokogawa,Honeywell,Endress&Hauser,Vega**), Control and ESD

valves,(Fisher, Orbit Motorized valves (Rotork), Coriolis & Mass flow meters (E&H and Rosemount) F&G System (Dragger, ABB) and Analyzers (E&H).

- Various **FF** Instruments configuration and commissioning with Supplier field Engineer.
 - Responsible for Executing all the Construction related activities in timely manner and report to higher management.
 - Review all Project Drawings, Specifications and evaluate with actual site conditions, If required prepare STQ to Engineering Department.
 - Ensure the field activities are exactly following the relevant standard and Specifications.
 - Coordinating with QA/QC for getting quality output and ensure that Project Specification must be implemented properly.
 - Coordinate with Client and solve the site related Technical issues and modifications as fast as possible.
 - Contact with Instrument Manufactures and contractors job content & major challenges.
 - Analyse Instrument Specifications , Design Reports, Test Documents, Functional Descriptions
 - Actively participate in project meeting with clients, vendors and Sub-contractors.
 - Conducting daily progress meeting and its status with sub-ordinates and sub-contractors.
 - Submit construction quality check sheets, Pre-commissioning and commissioning Inspection Test Reports in a timely manner.
 - Prepare Work/Commissioning Package for all field Activities.
- Previous Employment (July 2011-June 12)

Organization: **NSH Corporation**

EPC: FLUOR ARABIA Ltd

Designation: **E&I Field Engineer**

Location: **Al Jubail Industrial City, KSA**

❖ **Major Projects executed**

1. **SUPER ABSORBENT POLYMER PROJECT (SAP) – JV OF TASNEE PETROCHEMICAL and EVONIK**

Role:

- Transformer Installation (33kv/415V)
- Substation work, Feeder Pillar, MCC Installation.
- HV & LV Cable Laying both underground and aboveground.
- LV and HV Cable termination in Substation.
- Plant lighting work.
- Instrument and F&G detector Calibration and Installation in field.

Trainings Attended

- Attended Wellhead Hydraulic Control system Training by WILMAX Singapore.
- Allen Bradley PLC and factory talk view SCADA. (Compact, control and Flexlogix).
- Wonderware SCADA Training
- Frontline Supervision Leadership Training by PDO

Skills

- IN Tools
- SPI
- SAP
- DTM (FLOWSERVE , FISHER)

PERSONAL DETAILS

- Date of Birth: **22 March, 1989**
- Languages known: English, Hindi, Tamil, and Malayalam, Arabic
- Address: Kodinjoor, Amara PO, Madappally, Kottayam, Kerala
- Passport No: **V9079489**
- Date of Expiry: **24/08/2031**

Declaration:

I, Manu K Rajeev, hereby declare that all the above statements are true and correct to the Best of my knowledge and belief.