

NIRMALA DEVI VENGADASALAM

Masters in Engineering Management (Hons)
Bachelor of Electrical & Electronics Engineering (Hons)

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PERSONAL INFORMATION

D.O.B : 4th of November 1986

Nationality : Malaysian

PROFESSIONAL SOCIETY: Registered Member, Board of Engineers, Malaysia

COMPUTER LITERACY : Microsoft Office 2003/07/ Windows 7, Matlab, Primavera, Microsoft Project, COMOS, Instrucalc (Instrument Sizing Software)

LANGUAGE SPOKEN AND WRITTEN : English, Bahasa Malaysia, Tamil

STANDARDS: ISA, ISO, API, ASME, ASTM, ATEX, NACE, NFPA, PTS, IEC and NORSOK standards.

EDUCATIONAL BACKGROUND

2009-2011	Programme : Masters in Engineering Management (Hons) Universiti Tenaga Nasional (UNITEN)
2004-2009	Programme : Electrical & Electronics Engineering (Hons) Universiti Tenaga Nasional (UNITEN)

GENERAL SKILLS

- Good interpersonal and communication skills.
- Able to lead, work in a team and work independently depending on the job requirement
- Confident and motivated.
- Able to work in tight schedules

WORK EXPERIENCE

Aker Solutions (Feb 2011 – Present)

Position: Instrumentation Engineer

Summary of Experience:

- Strong management and leadership skills, undertaken many challenging roles such as lead roles in pre-bid engineering & conceptual studies/ FEED, assisted project management team in preparation of project proposals, man-hour estimations, preparation of DCI/MCI.
- Involved in preparing/ reviewing material requisitions, Technical Requisition Package (TRP), Purchase specifications and Data sheets for various type of field instruments
- Preparation of specification and TRPs for Well Head Control Panel (WHCP) and Hydraulic Power Unit (HPU), vendor data review for WHCP, HPU, Wellhead and Umbilical
- Conduct and participate in project Kick Off Meetings (KoM), Design Reviews, HAZOP
- Review of Technical Queries (TQ)/ preparation of Technical Bid Evaluation (TBE) report based on vendor data review/ cross check vendor sizing calculation through Instrucalc software and ensure that the selected vendors meet technical and commercial requirements as per the project requirement and complies with applicable codes, standards, client specifications.
- Prepared and reviewed Instrument Index, I/O List and Instrument load lists
- Sizing calculation for control valve, safety relief valve and orifice plates
- Prepared and reviewed Instrument Installation/ Hook-up Drawings, Instrument Interconnection Wiring Diagrams, cable schedules, level sketches, reviewed & markup P&ID drawings
- Reviewed Fire and Gas (F&G) detector location drawings
- Coordination in preparation of Room Layouts (Control Room, Instrument Equipment Room, Radio Room, Communication Room)
- Preparation of Master Equipment List (MEL)
- Review and guide designers in preparation of PDMS drawings
- Coordination with other departments (Piping, Structural, Electrical, Process, Project Management & DCC)

Strong technical knowledge and experience in handling the following:

- Wellhead Control Panel (WHCP)

- Hydraulic Power Unit (HPU)
- Well Intervention Panel
- Valves (Actuated Valves, Control Valves, Pressure Safety Valves, Deluge Valves),
- Analyzers (Moisture Analyzer, Chlorine Analyzer, HC Analyzer, Sand Monitoring System, Salinometer)
- Flowmeters (Multiphase Flowmeter, Magnetic Flowmeter, Coriolis Flowmeter)
- Manual Sampling Bomb
- Gauges
- Electronic Transmitters (Pressure, Level, Temperature, DP Flow)
- Orifice/ Restriction Orifice Plates
- Pig Signaller

List of projects involved and experiences:

Project : Gina Krog Topside EPCH Project (Norway)

Client: Statoil

Duration : April 2013 – Present

Experience:

- Preparation of Specification for Hydraulic Power Unit (HPU) and Wellhead Control Panel (WHCP)
- Preparation of Technical Requisition Package (TRP) for Hydraulic Power Unit (HPU) and Wellhead Control Panel (WHCP)
- Preparation of Technical Requisition Package (TRP) and instrument data sheets for Electronic Transmitters
- Preparation of Technical Requisition Package (TRP) and instrument data sheets for Manual Sampling Bomb
- Involvement in bid evaluation, bid clarification meeting with client and vendor, preparation of bid evaluation report for WHCP, HPU, Electronic Transmitter and Manual Sampling Bomb
- Conduct and participate in KoM, participation in tele-conference with Vendor & Client
- Review Wellhead, WHCP, HPU, Xmas tree and umbilical drawings and catalogue
- Vendor data review for WHCP & HPU Package consist of various documents such as vendor P&IDS, GA drawings, Datasheets, Test Procedures, Index, BoM, Certifications and O&M manuals.
- Vendor data review for Electronic Transmitter Package and Manual Sampling Bomb
- Participation in Design Reviews and HAZOP
- Review and guide designers on the umbilical routing, review the interface drawings
- Review hook up drawings for Electronic Transmitters
- Coordinate with Piping Department on the location of HPU & WHCP
- Coordinate with Process Department in producing WHCP & HPU P&IDs and process data sheets

Project : Bertam Development Well Head Platform Project (Detail Design)

Client: LUNDIN

Duration : July 2013 – September 2013

- Preparation of Technical Requisition Package (TRP) and instrument data sheets for Actuated Shutdown Valves, Control Valves, Coriolis Flowmeter and Sand Monitoring System
- Review and guide designers in preparation of valve schematic drawings
- Review vendor sizing calculations using Instrucalc software
- Review and coordinate with process department regarding process data sheets and P&IDs
- Attended training regarding valve sizing calculation

Project : Pre-Bid Engineering (BCP-A3 & BLQ-3)

Client: ONGC

Duration : April 2013 – July 2013

- Lead for pre-bid engineering, focal point of communication for all matters/ issues concerning Instrumentation for the project
- Attend weekly progress meeting with project management and other leads
- Update weekly progress report
- Review the requirement of the bid document prepared by Client
- Preparation of Master Equipment List (MEL)
- Check and review all instrument data sheets prepared by engineers.
- Coordination in preparation of Control Room, Instrument Equipment Room, Radio Room and Communication Room layout drawings
- Liaise with Layout & Piping Department regarding the allocation of space for instrument rooms
- Involvement in preparation of project proposal
- Preparation of man hour estimation
- Preparation of DCI and MCI
- Reviewed Fire and Gas (F&G) detector location drawings
- Reviewed Instrument Index, I/O List and Instrument load lists

Project: East Piatu – Produced Water Treatment System (Bidding)

Client: Newfield

Duration : March 2013

- Review the requirement of the bid document prepared by Client
- Man-hour estimation

Project : Bertam Development Well Head Platform Project (FEED)

Client: LUNDIN

Duration : Jan 2013 – May 2013

- Preparation of Technical Requisition Package (TRP) and instrument data sheets for Actuated Shutdown Valves, Control Valves, Coriolis Flowmeter and Sand Monitoring System
- Review and guide designers in preparation of valve schematic drawings
- Review vendor sizing calculations using Instrucalc software
- Review and coordinate with process department regarding process datasheets and P&IDs

Project : Samarang Redevelopment Project (Bidding)

Client: Petronas Carigali

Duration : Jan 2013

- Review the requirement of the bid document prepared by Client
- Man-hour estimation

Project : BARDEGG-2 and Baronia EOR Development Project (Bidding)

Client: Petronas Carigali

Duration : Feb 2013

- Review the requirement of the bid document prepared by Client
- Man-hour estimation

Project : Deen Dayal Field Development Project

Client: Gujarat State Petroleum Corp – GSPC

Duration : July 2011 – July 2012

- Preparation of Technical Requisition Package (TRP) and instrument data sheet for all type of analyzers used in the project (HC analyzer, Chlorine Analyzer, Moisture Analyzer and Salinometer)
- Preparation of Technical Requisition Package (TRP) and instrument data sheets for Electronic Transmitters
- Involvement in bid evaluation, bid clarification meeting with client and vendor, preparation of bid evaluation report for HC analyzer, Chlorine Analyzer, Moisture Analyzer and Salinometer and Electronic Transmitter
- Review drawings and catalogue submitted by vendor
- Review and guide designers in preparation of PDMS drawings
- Review hook up drawings for Electronic Transmitters, HC analyzer, Chlorine Analyzer, Moisture Analyzer and Salinometer
- Coordinate with Piping Department on the location of panels for analyzers
- Coordinate with Process Department in producing process data sheets

SMHB Consulting Engineers (Jan 2009 – Jan 2011)

Position: Electrical Engineer

Experience: Design and preparation of specification for electrical, instrumentation and SCADA system, preparation of tender documents, tender evaluation and reporting, head office administration, approval of contractor's drawings and documents, and witness testing of switchboards and starter boards.

Maxis Communications Berhad (April – July 2008)

Position: Intern for Roaming and Interconnect Support Group (RISS), Network Engineering and Operation (NEO).

Experience: This job requires me to do overseas call quality analysis and troubleshooting. Being a fast learner, I managed to help the team to reduce the number of dockets/complains for the month of May & June. This enabled the team to excel by exceeding the target KPI and gave a good reputation on my capabilities to my manager.

REFERENCES

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