

Curriculum Vitae

MOHAMMAD BASHEER. A M
Instrumentation Engineer
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Objective:

Total 12 years of experience in Oil & Gas Sector for Refinery, Petrochemical, oil storage facilities, pumping stations for sewage & potable water distribution system, water reservoirs and Sewage Treatment Plants for Instrumentation Project execution, Commissioning & Design Engineering works. Installation, testing and commissioning of DCS, ESD, FGS, FACP and PLC RTU based Control System, Fiber Optic Communication and installations, Commissioning & Testing of Field Instruments such as Flow meters, Analyzers, Valves etc;

Qualification:

4 Years Full time Graduate Degree **B. Tech.**, in **Electronics & Instrumentation Engineering** with First Class in **2007** from College of Engineering VADAKARA, **Cochin University**, India.

Professional Profile:

Job Title : **Instrumentation Commissioning Engineer**
Company : **Petrofac International Limited**, North-Kuwait-Ratqa Field
Total Experience : Since September **2018- October 2019**

PROJECT:

LOWER FARS HEAVY OIL DEVELOPMENT PROGRAM PHASE-1 (LFHO PROJECT-60 MBOPD)

Kuwait's Lower Fars Heavy Crude Oil Scheme is expected to be one of the largest and most ambitious upstream projects of the Middle East. With a budget estimated at **\$7 billion**, the Kuwait Oil Company (**KOC**) aims collect large amounts of data and drill hundreds of wells to extract heavy crude oil from the Ratqa field in North Kuwait. Located in a remote northern area of Kuwait, the Lower Fars project encompasses a comprehensive set of production segments, from upstream to downstream. It includes a steam injection facility, a central processing facility (**CPF**), a production support complex, a tank farm and a 270,000 barrel-a-day pipeline, which will transport heavy crude oil to the planned new Al Zour refinery in the south of Kuwait.

The project's engineering, procurement and construction schedule will begin with the building of crude oil CPF, followed by a water treatment plant and hazardous waste disposal treatment plant for water effluent. A second phase will include an infield pipelines system, a water supply inlet pipeline to the CPF from Utilities Development Company's Sulaibiya water treatment plant and a 165-kilometre export pipeline with a 61-centimetre diameter.

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When fully operational it is expected that the initial phase of the Lower Fars heavy oil project will produce around **60,000 barrels of oil a day**.

Petrofac is leading a consortium with Greece based **Consolidated Contractors Company (CCC)** as its partner with Project Management consultancy as **WorlyParsons**.

❖ **Duties and responsibilities**

- Responsible for Loop checking, Pre-commissioning and Commissioning of field instruments, control panels, ESD System(**Honeywell**),F&G System, FSC System, DCS & PLC System(**Honeywell EPKS-Experian Process Knowledge System-R500**).
- Carried out Pre-Commissioning & Commissioning of Fire & Gas system like UV/IR Flame detectors, Smoke detectors, Open path gas detectors, HC & H2S Gas detectors, HSSD-VESDA System, Sounders , Beacons & Manual Call Point (**Tyco System**)
- Loop test and troubleshooting of control room smoke detection system VESDA FGS system and its function testing as per cause and effect.
- Lead a team of supervisors &Technicians to carry out loop/ logic testing on DCS &ESD control systems and commissioning in CPF plant (area includeTrain-1/Train 2, OTSG, water treatment and storage tank area).
- Having adequate experience in troubleshooting & field Calibration of all type of transmitters (HART&FF Process loops. & Tuning of PID loops in coordination with the operations and system vendors), control valves, MOVs, BDV& ESD valves,
- Experienced in flow meters, level transmitters, level switches, vibration sensor, gas detectors and pressure transmitters calibration and configuration (electromagnetic, ultrasonic, hydrostatic, Guided Wave Radar,ect;) of ABB, Rosemount, Krohne, Siemens, E+H,Rotomass ..
- Knowledge of **HART, Field Bus Communication** Systems and understanding of discrete and analog systems.
- Cause & Effect Logic Checking as per C&E Matrix Diagram for ESD Level-3&4.
- Experienced in Conditioning Monitoring System (**CMS system**) of **Bentley Nevada Vibration and Temperature monitoring system** for pumps.
- Perform instrument and electrical interface hardware and Modbus signals (OPC, TCP/IP, RS-485) related MCC, VFD, UPS & vendor packages and troubleshoot for any required modification.
- The work included the Commissioning and SAT support of instruments for various vendor package units such as VRU, CEMS, CMS, Fire water pumps and Various Dosing Packages.
- Designing, Implementing and Commissioning of new control loops as per site requirements.
- Performing the Site Acceptance Test for the DCS & Control room Panels.
- Prepare weekly look ahead for responsible systems identifying work fronts available if **ITR's** completed
- Use of **LFM** (Loop Folder Manager-**petropcs**) for ITR tracking after latest revision from Zenator
- Making sure all paperwork such as **ITR, TQ's, CRF & RLM** are completed and updated to the petro PCS system as well as **B-ITRs** completions and all the prescribed activities to be carried out.

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- Familiar on test equipments of FF& HART instruments such as AMS Trex/ HART communicator-475 and used to provide & configure updated EDD files required for FF instruments(using Upgrade studio)
- Ensure work is carried out safely and efficiently in a competent manner and that adherence to the **Permit to Work system(PTW)** is performed
- Review Instrument Test Procedures for critical ESD loops like pumps vibration instruments connected to Bentley Nevada 3500 control systems(using **TK3e Kit**)
- Coordination with vendors and sub-contractor for documents they have to submit as part of Documents for Operation.
- Responsible for System Punch list closure& Project completions activities.

Automation Systems:

PLC	: Honeywell EPKS-Experian Process Knowledge System-R500.
ESD	: Honeywell
FACP	: TYCO

Job Title : **Instrumentation Project/Commissioning Engineer**
Company : **M/s Gulf Petro-Chemical Services & Trading LLC** - Muscat -Sultanate of Oman
Total Experience : Since **May 2015-June 2018**

M/s GPS is a leading 100% Omani owned contracting and trading company with active participation in Oman's Hydrocarbon, Petrochemical and Energy Sector Industries since 1983. The company is currently rated as one of the leading EPC Contractors in the Sultanate of Oman with business activities spread across GCC member Countries.

PROJECTS:

1. WATER RESERVOIRS PROJECTS/BISYA (PAEW PROJECT)

Period: Jan: 2017 – Jun:2018 (Commissioning Engineer)

Construction of Water Distribution Networks for Bisiya, Al Ma'amur, Al Habbi and Ten Surrounding Villages in Dakhiliyyah region, scope of work is to provide potable water supply to the existing and new developments in the project areas. Construction includes Five Ground service Reservoirs and one pumping station with Chlorination package for each reservoir. These Reservoir Stations are designed for **Public Authority for Electricity and Water (PAEW-Sultanate of OMAN)**, with supervision consultant as M/s **AAW**.

❖ **Duties and responsibilities**

- Preparation of planning and scheduling of pre-commissioning, commissioning and start-up execution plan for entire projects and integration with Client planning for commissioning & start-up.

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- Review of all Instrumentation Drawings such as System Architecture, Logic Diagrams, Control & Safeguarding Narratives, Instrument Index, I/O List, Cable Schedule, Hook-ups, loop layout, loop schematics, JB schematics, Instrument location plan, F&G layout & specification for control system.
- Conducting loop test, functional test and control narrative tests for process loops and Fire & Gas systems.
- Coordinating the SAT activities like function test of Pumps, MOVs (Aumamatic), F&G, other vendor packages, GSM/GPRS communication ect...
- Familiar in electrical relay drawings, MCC, drives, soft starters, VFD ect ...
- Having adequate experience in Instrument Data Logger units & their software installation, testing and commissioning (particularly H2S (Odialog), FMP, PMP, (Sofrel) Temperature ect;)
- Attend FAT for PLC panels and verify the punch list cleared before SAT.
- Co-ordinate with Electro chlorination package vendor (**CloreTec® MCT series- Elctrochlorinator: M/s Denora, USA**) for SAT activities, that includes correction of loop drawings cause & effect verification in the PLC and Modbus communication (TCP/IP) to main SCADA system.

Automation Systems:

- PLC : Siemens-Simatic S7-300/400H
- FGS : TYCO. Fire Alarm Systems
- Chlorination System : CloreTec® MCT series- Elctrochlorinator : M/s DENORA
- Water Quality Analyzer system : TELEDYNE, Analytical Instruments, USA

2. SALALAH WASTE WATER COLLECTION AND CONVEYANCE SYSTEM_PH-III (SSDS PROJECT)

Period: July: 2016 – Dec: 2017 (Project & Commissioning Engineer)

Provision and installation of the complete gravity sewer networks and that to include connection to the existing networks, plus construction of pump/lift stations including all associated M&E works in order to put the new pump/lift stations into service. Sanitary sewage networks construction zones are **Raysut, Dhareez and VIP areas**. Pumping stations includes, Raysut one main pumping station and one lifting station, in Dhareez three pumping stations and an area pumping station in the VIP area.

Parsons International and Company LLC (Oman) have been awarded the 'Design Consultancy and Supervision Services' for the wastewater sewer network system by owner **Salalah Sanitary Drainage Services Company (SSDS)**.

❖ **Duties and responsibilities**

- Updating and development of detailed engineering documents like P&I Diagrams, BOM, Functional design Specification/control philosophy for lifting stations, cause & effect diagrams, Manufacturing Specification and design of instruments on the basis SOW, Tender Drawings & Project Specifications.
- Preparation of I/O List, Instruments list, Instrument Datasheets, Hook –ups, cable schedule, wiring diagram, cable termination details of field instruments and loop drawings with reference to tender drawings & project specifications, and submit to consultant for final approval.

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- Organizing, assigning and supervising activities in collaboration with Process and Utilities departments and Coordination with planning team to develop work front management.
- Responsible for Installation of Field mounted Instruments, Erection of Cable trays, Tray supports, Impulse Tubing's; Instrument stanchions fabrications. Junction Boxes, Local Panels installation, cable glanding & termination. Coordinated with civil engineers for cable trench routing.
- Technical support given on installation of flow, pressure, level, and analyzer process control equipment with engineering section of client.
- Preparation of pre-commissioning, commissioning and start-up execution plan, method of statements and functional check procedures. Development of planning and scheduling of pre-commissioning and commissioning plan for entire projects and integration with Client planning for commissioning and start-up.
- Conducting loop test for process as well as F&G system.
- Test the soft and hardware interface signals of vendor PLC related to main DCS.
- Redline mark- up in loop drawing & interpose relay wiring drawings in loop test and preparation of test packs.

3. BULK LIQUID STORAGE FACILITY PORT OF SALALAH-OMAN (MINA PETROLEUM FZE)

Period: May: 2015 - July: 16 (Project &Commissioning Engineer)

Mina Petroleum FZE –Mina Group has been awarded by the U.S. Department of Defense's Defense Logistics Agency a five-year contract plus a five year option to build and operate a 230,000 cubic meter Bulk Liquid Storage Terminal Facilities at the Port of Salalah in Oman and have to commission the terminal with a Jet Fuel & Marine fuel pipeline (4 pipelines of approximately 3.5 KM each) up to the pipeline corridor / liquid jetty.

The storage tank facility includes 9 tanks with associated facilities Ship Loading / Off-loading, which transfer fuel products FND76 and JP5 from the Jetty Terminal to the new storage facilities, by means of a new Booster Pump station, which will be located at a certain distance outside the tank farm. Transfer rate: from ships 8.000 BBL/H, from barges 2.000 BBL/H, with four 18" pipelines. Area of the plot plan is approximately 58.345 sqm².

SALFO was awarded by Mina for all the engineering services, with execution of the Basic Design, FEED and Detail design of the project total procurement & commissioning support to the Contractor.

❖ Duties and responsibilities

- Responsible for Engineering site activities, Project Execution, Construction, Installation, Calibration, Loop checking, Pre-commissioning and Commissioning of field instruments, control panels, ESD System, F&G System(**Honeywell Notifier**), CCTV system, DCS System, PLC System(**Siemens-Simatic S7-300,WinCC**), Fiber Optics Cable system.
- Responsible for installation and commissioning support for Tank gauging system, truck loading system, TMS-PLC system, Fire Alarm & Gas Detection System and MOV controls etc.. for the Tank Farm Project.
- Installed and Pre-Commissioned the Automatic Tank Gauging system (**Honeywell Enraf -Entis Pro**) using radar & servo level transmitters and involved in commissioning of Level Transmitters and In-Tank Temperature (RTD).
- Involved in execution & commissioning of low current systems like telephone, public address & CCTV system.
- Handled installation of Fire & Gas System such as Flame detector, HC detector, Aerosol system, H₂S gas detectors, Sounder & Beacons and Manual Call Points. (**Honeywell Notifier system**).

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- The job involved the construction of control room, erection of DCS panels and Cabinets, cabling works, termination, loop checking, pre-commissioning and commissioning.
- Preparing and submitting all Inspection Test Reports (ITR).
- Preparation of technical Proposals and Man-hour estimations. Providing QA/QC for design packages prepared by other engineers to check the completeness of the package from technical as well as PDO & International standards point of view. Vendor drawing review for SCADA, PLC, ESD-PLC and various other field Instruments.
- The work included the installation and commissioning of instruments for package units such as air compressors, nitrogen package, IA compressors and, Fire water pumps.
- Preparing Instruments loop folders (Cover sheet, Index, I/O list, ILD, P & ID, Hook up Drawings, calibration sheet Data sheet & Punch list copy etc.).
- Responsible for System Punch list closure & Project completions activities.

Automation Systems:

PLC	: Siemens-Simatic S7-300
SCADA	: WinCC
FGS	: Honeywell Notifier
TANK GAUGING	: Honeywell Enraf-Entis Pro

Job Title : **Instrumentation Engineer**
Company : **PROTEC - Professional Technical Services, DOHA-QATAR**
Total Experience : **January 2011-January 2015**

PROTEC is a privately owned company established in Doha, Qatar engaged in the fields of Engineering, Supply, Construction, Installation, Commissioning, Operation and Maintenance of various types of equipment for the Water, Waste Water, Energy, and Industrial markets.

➤ Projects Department:

ASHGHAL TPTP – 10,000 CMD Sewage Treatment Plant at Al Kharaana & Umm Birkah

ASHGHAL (PWA) TPTPs located in Umm Birkah (Al Khor) & Al Karanaa, Qatar, the package STPs, designed capacity 10,000 m³/day and operational capacity of 15,000 m³/day of each plants, using Extended Aeration Technology with Anoxic Treatment for Nitrogen Removal.

❖ Duties and responsibilities

- Monitoring all stages of work including calibration, Instrument installation, Impulse tubing, cable tray installation, cable laying, Junction Box installation, Inspection, Loop checking Inspection of field instruments in the unit by reading P&ID, Hook up diagrams and data sheets.
- Perform material specification and coordinate preparation of drawings including site layout, shop drawings, Instrument data sheets, Hook-ups Diagram, instrument termination details of field instruments & Preparing As-Built documents.

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- Responsible for clearing Technical Queries with consulting client engineers and process engineering department.
- Preparing the Vendor Lists and Technical Discussion with Vendors for the Selection of Instrument.
- Installation and commissioning of instruments like different types of Transmitters, Sensors, and Indicators etc;
- Technical and Installation support of Fiber Optic system for the project.
- Co-ordination with Automation Vendor (ABB) for the implementation of PLC & SCADA for the project.
- Preparing & submission of subcontractor pre-qualification documents and material documents to client for necessary approval procedure.
- Support to Procurement team for Technical Bid Evaluation and procuring Instruments.
- Preparing RFI & RMI for the project.

➤ **Quantity Surveying & Tender Department:**

❖ **Duties and responsibilities**

- Analysis and understanding of the tender documents.
- Preparation of MTO & BOQ as per the scope of work.
- Preparation of request for quotations to suppliers and subcontractors.
- Understanding and evaluation of the techno-commercial quotations received from suppliers and subcontractors.
- Compilation of bidding documents and cooperates to the preparation of the technical and commercial Bid packages.

Job Title : **Instrumentation Project Engineer**
Company : **Nasser S. Al-Hajri Corporation (NSH) - Al Jubail, Saudi Arabia.**
Total Experience : **September 2008 – September 2010**

PROJECTS:

1. SAUDI KAYAN PHENOLICS PROJECT (SKPP)

Period: Apr: 2010 – Sept: 10

Saudi Kayan Phenolics Project plant is designed for Saudi Basic Industries Corporation (**SABIC**), Kingdom of Saudi Arabia in Jubail Industrial City, based on Tecnicas Reunidas Gulf Co. Ltd (**TR**). Construction includes BPA, Cumene & Phenol.

2. SAUDI KAYAN OLEFINS PROJECT (SKOP)

Period: Aug: 2009 – Mar: 2010

Saudi Kayan Olefins Project plant is designed for Saudi Basic Industries Corporation (**SABIC**), Kingdom of Saudi Arabia in Jubail Industrial City based on Kellogg Brown and Root (**KBR**).

3 .a. METHYL AMINE DIMETHYL FORMAMIDE PROJECT (MADMF)

Period: Jan: 2009 – July 2009

Methyl Amine Dimethyl Formamide plant is designed for Saudi Formaldehyde Chemicals Company Limited (**SFCCL-CHEMENOL**), Kingdom of Saudi Arabia, based on Davy Process Technology. Construction includes MA unit, DMF unit, and its utilities.

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3 .b. METHANOL & CO PLANT ASSOCIATED FCILITIES PROJECT

Period: Sept: 2008 – Mar: 2009

Methanol & Carbon Monoxide plant is designed for Saudi Formaldehyde Chemical Company Limited (**SFCCL-CHEMENOL**), Kingdom of Saudi Arabia, based on **Haldour Topsoe A/S** (HTAS) technology. **Carbon Monoxide** plant is designed & supplied by **Air Liquide (ALE)**. The capacity of the plant corresponds to an amount of 700 MTPD of Methanol and 100 MTPD of Carbon monoxide.

❖ Duties and responsibilities

- Responsible for Installation of Field mounted Instruments, Erection of Cable trays, Tray supports, Impulse Tubing's; Instrument stanchions fabrication, cable installation, cable glanding & termination ect..
- Installation of analyzer instruments and its sample conditioning systems and construction activities related to analyzer shelters. Carried out installation, Pre-Commissioning & Commissioning of Fire & Gas system like UV/IR Flame detectors, Smoke detectors, Open path gas detectors, HC & H2S Gas detectors, Sounders & Beacons, F&G alarm panels and pneumatic tubing's related to DELUGE valve system in field and control room.
- Planning of works and organize the people to work for the next day.
- Completed the construction activities of **MA area** as per specification and approved drawings and raised **RFI's** for spot inspection of construction activities with the client carried out inspection of incoming material are used at site. Co-ordination with **Electro Mechanical divisions** to ensure correct sequence of work is being followed. Co-ordination with client for the quality matters including Construction Changes **Methyl Amine plant**.
- Assign technicians to work different kinds of pre-commissioning activities, Pneumatic Leak Test of Air Line Tubing /Impulse line tubing, Insulation Resistance test & Continuity Check for Instrument Cables, loop check, functional test and loop folder preparation.
- Perform commissioning of instrumentation systems for utilities and process area.
- Attended construction and operations punch list and closed those punches before scheduled date.
- Preparation of AS-BUILT drawings regarding site conditions in coordination with structural, piping and process department of client.

Job Title : **Jr. Instrumentation Engineer**
Company : Reliance Industries Limited. MUMBAI, INDIA
Total Experience : **September: 2007-August 2008**

PROJECT:

JAMNAGAR EXPORT REFINERY PROJECT (JERP)

Reliance's Jamnagar complex represents the largest industrial project ever implemented in the Indian corporate sector. The Jamnagar manufacturing complex is a fully integrated manufacturing complex, with a petroleum refinery complex, an aromatics/petrochemical complex, a power generation complex, a port and terminal complex, as well as access to a pipeline network.

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❖ Duties and responsibilities

- Planning, Material Procurement, Scheduling, Installation, Erection & Commissioning of Automation Systems and Field Instruments.
- Assign technicians to work different kinds of instrumentation execution activities , like instrument installation, Erection of Cable trays ,cable lying, Impulse Tubing's; Instrument stanchions fabrication, Junction Boxes installation ,ect; as per location plan & hook-up diagrams.
- Prepare request for inspection to client for inspections and acceptance of installations and Testing.

Engineering Skills:

- **Engineering Documents** : Design Basis & Philosophy, Instrument I/O List, Instrument specification sheet (ISS), Instrument installation Schedule (IIS), Instrument mounting and piping details, ILD, Terminals Block diagrams & Interconnection diagrams, Block diagrams, Cable Schedule, Study & Reports, Project Specification, Datasheets & MTO for all Instrumentation equipments.
- **Engineering Layout Drawings & Standard Installation Details:** Preparation of Hook-Up diagrams, cable tray/trench layout, cable & conduit schedule, Instrument Installation and mounting details.
- **Other Technical Skills** : Vendor Drawing Review, Interaction with Clients & Contractors, Coordination with other disciplines, Interdisciplinary review, Support to Procurement team/Technical Bid Evaluation(TBE), MR Preparation & Support to Construction team & attending Site Engineering Request (SER) & Revising Engineering deliverables in accordance with SER.

Personal Details:

NAME	:	MOHAMMAD BASHEER. A M
DATE OF BIRTH	:	10.01.1986
MARITAL STATUS	:	MARRIED
NATIONALITY	:	INDIAN
LANGUAGES KNOWN	:	ENGLISH, HINDI & MALAYALAM
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DECLARATION:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

MOHAMMAD BASHEER. A M