# *****Sibi Babu*****

**Designation** : **Instrumentation and control supervisor**

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***Objective***

Looking for a challenging position, preferably in “Instrumentation” and a long-term career in a reputed Organization, which encourages creativity, innovation, realizes my potential and provides opportunities to explore myself fully for the mutual benefit and growth.

***Work Experience***

Having above 11 years’ experience in Petrochemical, Oil and Gas, Gulf Petrochemical Industries Co. Construction, Pre-commissioning, Commissioning, Start Up and maintenance activities. Specializing in the field of Trouble shooting, Shutdown and Break down maintenance within a growth-oriented firms.

**Employer record**

**Employer : PETROFAC INTERNATIONAL UAE LLC.**

**Duration : 10 SEP 2018 – 31 OCT 2021**

**Position : Instrument commissioning supervisor**

**Project : KNPC MAB1 Clean fuel project (Kuwait)**

**Responsibilities : Pre-commissioning, Commissioning, Start up and maintenance activities**

**Duties Involved:**

* As Instrument commissioning supervisor I have been good experience of process monitors and I have guided and controlled a team of technicians during commissioning and start-Up.
* Assigning tasks to technician’s to complete the work within scheduled time.
* Coordinate with construction team for A ITR competition status for job scheduling.
* Loop testing & Functional testing folders preparation.
* My field of interest is troubleshooting and resolving the technical problem and bring the anomalies to the notice of my senior.
* Lead the team for Loop testing and functional testing of Fire and Gas devices.
* Pre testing of DCS and IPS logic’s with final approved documents.
* Control narrative and cause and effect logic testing with client.
* Calibration and routine maintenance of IR & UV fire and gas detectors
* Calibration of all types of process control instruments.
* Trouble shooting and replacement of defective sensors and modules
* Configuration and commissioning of open path gas detectors
* Commissioning and maintenance of building fire alarm systems
* Loop checking activities for all type of field instruments.
* DCS and IPS logic related Support for Mechanical and Electrical team for solo runs and MRT
* Supporting vendor activities.
* Well knowledge in Functional logic diagram reading and DCS/IPS Logic related trouble shooting
* Skilled in PLC, DCS, ESD Plant Automation Control System
* Inspecting electrical components and troubleshooting them for repair

**GE steam turbine & Gas compressor**

* Pre-commissioning,Commissioning and start up support of GE steam turbine and gas compressor
* Woodward varistroke actuator calibration and commissioning
* Woodward trip valve commissioning
* Woodward Pro Tech G2 over speed protection device loop testing and commissioning
* GE compressor Start up sequence and C&E logic testing with client
* Simulations of speed probes during sequence testing
* Vibration probe installation and gap voltage adjusting
* Loop testing and commissioning of MMS (Bentley Nevada 3500) loops
* Antisurge valve commissioning

**Employer : PETROFAC INTERNATIONAL UAE LLC.**

**Duration : 20 DEC 2017 – 10 AUG 2018**

**Position : Sr. Instrument commissioning technician**

**Project : Tatweer Petroleum, NAG LTFD PHASE-1 TO INSTALL 500 MMSCFD GDU (Bahrain, Awali)**

**Responsibilities : Pre-commissioning, Commissioning, Start up and maintenance activities**

**Duties Involved:**

* Loop testing and functional testing of Fire and Gas System
* Control narrative and Cause and effect testing of process control logics
* Responsible for process control instruments scheduled calibration, maintenance, troubleshooting and repair.
* Assist with systems start up and validation.
* Configuration and calibration of Coriolis flow meters
* Loop testing calibration, fault finding and maintenance of all types of control valves
* Preventive maintenance and calibration of Process control instruments
* Provided hands on technical leadership for installation, start ups and maintenance of process control systems
* Fire and gas system commissioning

**Employer : PETROFAC INTERNATIONAL UAE LLC.**

**Duration : 24 JAN 2017 – 11 AUG 2017**

**Position : Sr. Instrument commissioning technician**

**Project : BP KHAZZAN PROJECT (Muscat, Oman)**

**Responsibilities : Pre-commissioning, Commissioning, Start up and maintenance activities**

**Duties Involved:**

* Involved with Vendor to Complete the Site commissioning the Instruments with DCS, PLC.
* Familiar with, DCS-YOKOGAWA CENTUM-3000,
* DCS Perform the Functional Test activities of all field Instruments. Troubleshoots, fault finds, and repairs process and supporting Instrumentation as needed, Identifies Instrumentation problems and raises site queries and Technical Modification Requests (TMR). ESD Carry out Operational Test
* Responsible for process control instruments scheduled calibration, maintenance, troubleshooting and repair. Assist with systems start up and validation.
* Performed preventative maintenance, field repairs and spare parts ordering.
* Completed evaluation and modification of control systems including PLC programs, resulting in increased system efficiency and safety.
* Diagnosed control system problems using manuals, schematics and various test equipment.

**Employer : PETROFAC INTERNATIONAL UAE LLC.**

**Duration : 10 MAY 2013 – 15 OCT 2016**

**Position : Sr. Instrument commissioning technician**

**Project : Galkhanish gas field development project (Turkmenistan, Ashgabat, Mary)**

 **Responsibilities : Pre-commissioning, Commissioning, Start up and maintenance activities**

**Duties Involved:**

 As a field Sr. instrument commissioning technician, I have been Good Experience of Process monitors I have guided and controlled a team of Technicians during Commissioning Start-Up and Maintenance.

My field of interest is troubleshooting and resolving the technical problem and bring the anomalies to the notice of my supervisor.

Pre-commissioning, Commissioning, start-up and maintenance activities of Well heads, GTU (Gas Treatment Unit), BVS (Block valve station), SRU (Sulphur Recovery Unit), Sulphur forming, handling, bagging, storage and rail loading systems (**SANDVIK PROCESS SYSTEMS ARGE**), Hydrocarbon condensate rail loading package, Honeywell Metering skid, GTG Gas turbine generator (GE systems).

* This includes Suggestion and Implementation of Modifications, Documentation checking and Updating Drawings,
* Supervision of activities,
* Materials arrangement and Co-ordination with other Departments.
* Having Experience in Commissioning and Start-Up of utilities like High Pressure Steam Boilers, BLOWER control system, Gas Turbines Control System, Sulfur Recovery Units and Water Treatment Plants, Centrifugal compressor and gas turbines.
* Familiar with, DCS- (YOKOGAWA CENTUM-3000, PLC –SEIMENS, HONEYWELL EXPERION)
* Calibration, maintenance and troubleshooting of Smart and Field bus Transmitters (Pressure, Temperature, Flow, Level),
* Calibration and maintenance of Magnetic, Vortex, and thermal mass flow meters,
* Loop testing calibration, fault finding and maintenance of all types of control valves.
* Loop testing and functional testing of Fire and Gas System
* Control narrative and cause and effect testing
* Experience in Commissioning and start-up of GTU (Gas treatment unit) Well head and Hydraulic control panel.
* Pre-commissioning, commissioning, start-up and maintenance of different types of vendor packages like instrument air Compressors (GE), Claus air blower (HOWDEN COMPRESSORS, PLC: SEIMENS) Thermal oxidizer fan (SEIMENS) Automatic tank gauging system (HONEYWELL ENRAF) Hydrocarbon condensate rail loading package (SEIMENS STEP-7), Involved with Vendor to Complete the Site commissioning and start-up activities.
* Responsible for process control instruments scheduled calibration, maintenance, troubleshooting and repair. Assist with systems start up and validation.
* Well knowledge and service experience in control valve positioners different manufactures like **Siemens SIPART PS2, MASONELIAN, FLOWSERVE SMART POSITIONERS, FISHER DVC 6000SIS, DVC6200, ABB, METSO, SEVERN GLOCON**
* Ensured effective and continuous operation of all control systems throughout the plant.
* Diagnosed control system problems using manuals, schematics and various test equipment.

**Employer : PETROFAC Saudi Arabia Ltd.**

**Duration : 17 OCT 2011 – 21 DEC 2012**

**Position : Sr. Instrument commissioning technician**

**Project : Karan utilities and Co-generation project (Saudi Arabia, Khursania)**

 **Responsibilities : Pre-commissioning, Commissioning and maintenance activities**

**Duties Involved:**

* Co-ordinate with construction engineer for prompt completion schedule.
* Worked with Project Mgt Team to prepare the systems, equipment’s for commissioning.
* Arrange permit and proponents for loop check.
* Supporting the vendor activities.
* Operating knowledge in VMS, BMS, ESD and DCS for loop checking activities also give instructions to technicians for their daily activities as per schedule.
* Calibration and servicing of various types of valves during pre-loop checking time clear all the system punches like trend, tuning, alarm settings and loop folders finalize for final loop checking
* Co-ordinate with functional test activities, Loop checking and functional testing of fire and gas instruments.
* Trouble shooting and loop checking of Micro motion flow transmitters.
* Preparing weekly and monthly reports
* Experience in FISHER 6000 SIS, CAMERON, FLOW SERVE, MASONEILAN, VALTEK smart positioners
* Well knowledge in EMERSON, ROTORK, AUMA Motor operated valves commissioning (Configuration, mechanical limit setting and torque profile) and operation.

***Saudi ARAMCO GOS Plant (ARAMCO), KSA (3 JAN 2011- 17 MAY 2011)***

**Duties Involved**

* Calibration for all type of transmitters.
* Servicing and maintenance of control valves.
* Trouble shooting of field Instruments.
* Loop testing for re calibrated transmitters, pressure switches and control valves.
* Calibration of LEL and H2S Gas detectors.
* Prepare and reviewing the maintenance work procedures of the field instruments and systems.

***STAR (Siphom Taqa Al. Rushaid), Dammam, KSA (23 JUNE 2011- 25 SEP 2011)***

**Duties Involved**

* Installation as per P&ID & HOOK UP Drawings
* Cable Glanding, Termination
* Performs instrumentation maintenance, installation, calibration, modification, and troubleshooting preventive and predictive works for the entire process manufacturing and utilities plant.
* Performs other duties as assigned.
* Installation of process measuring instruments.
* Performs calibration of instruments as needed.
* Locating and correcting the discrepancies in troubled Complex systems with Vendor.

***Saudi Kentz, Al. Jubail, KSA (1 JUNE 2010 – 8 DEC 2010)***

**Duties Involved**

* **Calibration, Loop checking, & troubleshooting of various field instruments**.
* Control valve calibration, servicing.
* Installation and maintenance of control valves.

***DAELIM Saudi Arabia, Al. Jubail, KSA (21 APR 2010 – 19 SEP 2010)***

**Duties Involved**

* Instrument installation as per Hook up diagram
* Cable termination on junction boxes, instruments and in Marshalling cabinet.
* Layout and installation of conduit for instruments and electrical line.
* Loop checking for all control loops.
* **Calibration, Loop checking, & troubleshooting of various field instruments**.
* Calibration for all type of transmitters like Pressure transmitters (PT), Flow transmitters (FT), Level transmitters (LT) and Temperature transmitters (TT).
* Calibration of Pressure switches.
* Calibration and maintenance of different types of control valves.
* Operation.
* Loop testing and functional testing for Fire and gas detection system.

***Reliance Compressor Station, (GE), Hyderabad, India (1 MAR 2010 –25 APR 2010)***

**Duties Involved**

* Field and bench calibration for Smart pressure, flow, level and Temperature transmitters.
* Field calibration & Interlock functional check for the control valves, switches and shut down valves
* Calibrating the SMART valve positioners using communicator calibration.
* Loop checking and commissioning for all field instruments.

***BPCL Cochin Refinery, Kerala, India (4 JUNE 2009 – 21 DEC 2009)***

**Duties Involved**

* Installation of process measuring instruments
* Bench Calibration of transmitters, control valves, pressure gauges
* Involved in Cable pulling cable glanding and Termination

***RCF (Rashtriya Chemical Fertilizers, Bombay, India (15 FEB 2009 – 20 MAY 2009)***

**Duties Involved**

* Instrument Installation as per P&ID & HOOK UP Drawings
* Tubing (1/2”, 12mm, 10mm), Cable Glanding &Termination
* Performs other duties as assigned.
* Installation of process measuring instruments
* Cable pulling and Cable termination on junction boxes, instruments and in marshaling cabinet

***AREAS OF EXPERTISE***

* Ability to carry out job independently by following the Safety Rules and Regulation.
* Good knowledge about Permit to work systems (PWS) and several kinds of permits like Cold work permit, hot work permit, Limited Space Entry permits.
* Familiarity about several kind of Perilous involved in work area and essential safety measure to be done for the safe work.
* Capacity to do job alone by following Safety rules & regulations.
* Hands on Start-up, Commissioning and Maintenance experience of all major Pneumatic & Electronics Instruments, vibration monitoring System & Fire and Gas Safety Protection system.
* Specialist in Installation & Calibration of different types of the Modern Smart Electronics & Pneumatic instrument
* Skilled in PLC, DCS, ESD Plant Automation Control System
* Have a good experience of online/Offline Instrument Calibration, Configuration, Loop checking, Troubleshooting, Commissioning and Start up activities of Smart and Field Bus Process Control Instruments of DCS/PLC.
* Having good knowledge and experience of final inspection to Loop-Check and Start-Up.
* Cause & Effect and control narrative checking
* Simulation of logic, pump loops, Stroke checking of control valves from DCS & PLC.
* Well knowledge and service experience in control valve smart positioners different manufactures like **Siemens SIPART PS2, MASONELIAN, FLOWSERVE SMART POSITIONERS, FISHER DVC 6000SIS, DVC6200, ABB, METSO, SEVERN GLOCON, FOXBORO**
* Well-known with the Plant Running, Predictive, Preventive, Breakdown and Corrective Maintenance
* Having good knowledge and experience in BENTLY NEVADA (MPS) vibration monitoring system
* Calibration, Overhaul and Service Instrument and Control Valves with its accessories.
* Installation, Gap voltage Setting, Commissioning & maintenance of Vibration Monitoring Systems.
* Familiar with Computerized Machine Monitoring System (CMMS), Boiler Management System (BMS). Compressor Control Corporation System (CCC)of Centrifugal and Reciprocating compressor and gas Turbine Controlling system.
* Knowledge of Instrument and Controller configuration and parameter upload/ download.
* Commissioning and Maintenance experience of onshore Wellhead hydraulic panel.
* Performed Preventive / Corrective/ Repairing/ Shutdown and Breakdown Maintenance.
* Knowledge of instrument tubing work like ¼, 3/8, ½ inch size SS Tubing and copper tubing for instrument control air tubing and Impulse line tubing.
* Well known in FLD, P&ID, Ladder logic drawing, Hook up drawing and Schematic drawings.
* Well-known with the Plant Running, Predictive, Preventive, Breakdown and Corrective Maintenance task
* Sketches according to the changes/alteration made in Instruments, Circuits and Systems.
* Work with various Vendors of Various Instruments and Systems.
* Preparing of Daily Progress reports, Planning of Manpower & Materials for next day jobs.
* Carry out toolbox talks to get familiar with job & safety precautions.
* Well knowledge and working experience in control valves and motor operated valves
* I have worked various field and various locations and work on different position.
* Functions well under pressures, professional attitude, hardworking and highly motivated towards goal achievement.

***Handled Test Equipment’s and Tools***

* HART (Highway addressable Remote Transducer) model 275, 375 (EMERSON)
* Foundation field bus communicator 475 (EMERSON)
* Smart field communicator
* Ge Multifunction calibrator DPI620G
* Digital pressure calibrators,717, 718, 718ex,
* 719 FLUKE products
* High precision mV and Ma source FLUKE 725, 707, 725Ex, 726, Multifunction process calibrators.
* Temperature calibrator Micro Bath Fluke 7103
* Vibration test equipment TK3e
* Digital multi meter Fluke87V, 115 true RMS multimeter,83,17B,28 II

***Handled DCS/ESD systems***

* DCS SYSTEM : HONEYWELL EXPERION PKS C300 / YOKOGAWA CENTUM-3000CS,
* PLC System : SIEMENS Step7
* ESD SYSTEM : YOKOGAWA Pro-Safe/TRICONEX/HONEYWELL SAFTEY MANAGER
* MMS : Bentley Nevada 3500

***TRAINING***

* H2S Awareness
* SCBA
* CONFINED SPACE ATTENDANT.
* FIRE FIGHTING.

***Personal Details***

Date of Birth : 30/05/1986

Nationality : INDIAN

Academic Qualification : SSLC, PLUS 2 (+2)

Technical qualification : Diploma in Process Control Instrumentation

Computer knowledge : Computer Applications & M.s Office

Languages Known : English, Malayalam, Hindi and Tamil

**Passport Details:-**

Passport No : P1389071

Place of issue : Trivandrum

Date of issue : 02/11/2016

Date of expiry : 01/11/2026

**Declaration:**

I hereby declare that the information, furnished above is true to the best of my knowledge.

Place: Kerala

Date: Name: Sibi Babu.