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Professional Synopsis

- **Instrument & Control Engineer** having rich experience in the field of **Upstream oil & gas**(Oil Well Pads and Oil & Gas Gathering center), **Midstream & Petrochemical plant**.

☐ **Activity performed in Project:**

- Ensuring project is executed as per approved plan.
- Managing outsourcing, Engineering & EPC consultants.
- Ensure that the relevant Health, Safety, Security and Environmental elements are executed.
- Takes Part in Project Planning and Scheduling, Preparation for Commissioning
- Assist Purchase and Contract Dept for define Subcontractors Scope of work.
- Takes part in the Project Review Meetings, Preparation of HSE Plan.
- To ensure, Coordination of Work Progress and Reports to Manager.
- Participate to HAZOP Review Meetings, Safety Reviews to HSE Manager
- Ensure that all work at the installation is done safely and work permit system is followed.
- Commissioning & Maintenance of Artificial lift Pump for oil producer well like PCP (VFD driven Unico /Weatherford) & Jet Pump as well as Early Oil Recovery (EOR) plant.
- Commissioned 15 Nos OIL WELL-PADS & Quick Production Facility & done maintenance with trouble shooting.
- Done SAT for GAS COMPRESSORS UNIT driven by gas turbine, Gas operated MAIN LINE VALVES, METERING & REGULATING SKID supplied by Emerson.
- Involved in FAT & SAT for new projects instruments & control system.
- Review & Comments on Engineering deliverable like ILD, Data Sheet, P&I Drawings (P&ID's), Control Logic Diagrams, Control Philosophy and Cause& Effect as well as I&C Packages like PLC's, Distributed Control System (DCS), F&G and ESD system.
- Selection of Instruments based on hazardous area classification & service for Oil & Gas.
- Bentley Nevada system (3300 & 3500 Series) & Centrifugal Compressor Control system for Anti- surge system.
- Worked on Material Management Control System for codification of instrument material to be purchase.

☐ **Activity performed in Maintenance:**

- Directs, supervises and co-ordinates all type of maintenance works, routine and modification of instrumentation.
- Accountable to the Ops Engineer for all matters, reportable occurrences and operational difficulties which could affect the safe, cost effective and continuous operation of the facility.
- Co-ordinate and optimize company resources, human and material in accordance with company policies to ensure most economic and safe operation of facility.
- Follow maintenance standards (Preventive, Corrective, breakdown maintenance) and able to execute various maintenance tools like Condition Monitoring, RCA (Root Cause Analysis) and RCM (Reliability Centered Maintenance) and review reports for the same.
- Maintained reliability of Fire & Gas Detection system.
- Worked on Technical Bid Evaluation (TBE) of different Field Instrumentation/F&G/Control System and implement technical maintenance provided by service providers through SAP.

- Schedule and implement annual maintenance schedules in a cost effective and safe manner to enhance the productivity of the plant.
- Assist in investigation of each and every accident/Near miss occurring in his area of activity and implement remedial measures.
- Ensure all personnel working under are fully trained and competent for their respective job requirements.
- Co-ordinate and ensure that contractors execute their contractual obligations in line with the company HSE Policy.
- Develop Inspection criteria for Instruments prior to installation & commissioning.
- Maintenance, installation, troubleshooting, calibration and repair works on site or in work-shop and minimize the downtime for all installed Field Instrumentation by the timely implementation of planned maintenance procedure.
- Worked on Analyzers & SCADA system.
- Involved in troubleshooting and plant trip investigation.
- Alarm Rationalization & alarm management.
- Experience on Modbus & Profibus communication.
- Supervising for Permit to Work, Job Hazard Analysis, Method statement and ensures HSE & safe operating procedures are followed.
- Knowledge of Standards IEC61508/IEC61511.
- Actively participated for E-MOC (Management of Change/Plant Change Request) for engineering job evaluation.
- HAZOP & SIL studies for enhancement in plant & ensure quality, cost effective and timely solutions.
- Experience in preparing Standard Maintenance Procedure.
- Preparation of commissioning procedure & pre-check list for commissioning.
- Planning preventive maintenance, creating tags, Task list, Bill of Material & creating calibration records.
- Co-ordinate with vendor/dept. for material & service.
- Inventory management, planning for shutdown & corrective maintenance using SAP- PM.

Career Highlights

- **Jan 2021 to Present** working with **ADNOC LNG** as Instrument Control Engineer responsibility is to maintain all instruments and automation equipments, Document review, Root cause analysis, Maintenance schedule of Instruments.
- **July 2014 to Nov 2020** working with **Petroleum Development of Oman** as Instrument Control Engineer responsibility is to handle PDO Marmul Instrument and Control Systems.
- **Dec 2012 to June 2014** working with **Special Technical Services LLC Oman** as Instrument Engineer responsibility to do Engineering document review, Commissioning & maintenance of 10 Compressors Stations with 3 Unit of Gas Compressors(GE supplied), Gas Pipeline network.
- **Feb 2010 to Dec 2012** working with **Petrofac International Ltd Oman LNG** project as Instrument Commissioning Engineer.
- **May 2006 to Feb 2010** with **GALFAR Engineering Oman** as Instrument Supervisor in Instrument (O&M Maintenance) involved in commissioning & maintenance of Honeywell (Total Plant Solution) DCS from pneumatic control system.

🔍 **Metering Skid:**

Worked on metering & regulating skid of Emerson for maintenance of skid instruments, GC, Flow computer & moisture analyzer.

🔍 **Compressor:**

Worked on Cooper, Dresser & GE compressor for maintenance & overhauling of instruments.

🔍 **Turbine:**

Aero-Derivative Machine: GE: PGT 25+ & Rolls-Royce:

AVON Industrial Machine: GE: Frame V

🔍 **Artificial Oil Lift Pump:**

Progressive Cavity Pump – Commissioning & Operation
Jet Pump – Commissioning & Operation

🔍 **Automation:**

DCS: Honeywell C300, ABB 800XA

PLC: GE Fanuc series 90-70, Siemens PLC S7-300, 1200, Allen Bradley RSLogix 5000

ESD: TMR: Netcon WOODWARD (Series 5000) control system & Mark VI Control System

🔍 **Fire & Gas System:**

🔍 Gas Detection System –Hydrocarbon, Hydrogen & H₂S

🔍 Smoke Detection System- Very Early Smoke Detection System (VESDA) & other types

🔍 Fire Detection System

🔍 Deluge Systems

🔍 **ERP Package (SAP R/3) Activities**

SAP-PM Activities

🔍 Tags creation, Generation of PM, BOM & Preparation of Failure reports (FIR/FAR).

🔍 Prepared & uploaded Task list, completing maintenance request notification, Based on material consumption & service generates PM order, fill Calibration report etc.

SAP MM Activities

🔍 Create SAP code for new items.

🔍 Checking availability of material, preparing PR & PO for materials & vendor service.

🔍 Creating & verifying reservation.

🔍 **Routine/Shutdown Planning**

Includes Preventive / Predictive Maintenance Plans creation, Job list preparation, shutdown planning, Material, Manpower & Resource Planning.

PROCESS UNIT EXPOSURES:

HP/LP SEPERATORS, GAS COMPRESSORS, GAS DEHYDRATION UNIT, ACID GAS REMOVAL UNIT, FRACTIONATION UNIT, SRU, CRYOGENIC EXCHANGER, DESALTER.

Training Attended

- ☐ **ABB MNS-is (ABB-Dubai)**
- ☐ **ABB AO-2000 Analyzer (ABB-Dubai)**
- ☐ **Safety course & Work permit: PDO**
- ☐ **SAP & MS-Office**
- ☐ **MCITP (Microsoft)**
- ☐ **CCNA (CISCO)**
- ☐ **Certified Plant Automation Professional (Technocrat Automation-India)**

Educational Credentials

Diploma (Electronics and Communication Engineering) - 80.57 % from Tamilnadu State Board(2003-06)

Other Particulars

Date of Birth : 18 May 1986
Marital Status : Married
Present Address : Abudhabi