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# OPERATION & MANT.,PROJECT,commissioning PROFESSIONAL – OIL & GAS,TERMINAL,CPF 6 YEARS EXP.

# Seeking an opportunity for professional challenge and growth to support and enhance co-operative objectives of the organization.

# Present Company& Profile- DAFENG-IETS-india & Cairn india & ONGC (Rajasthan-India) (2015 to Till date)

# Instrumentation Engineer ( Commissioning & Plant start up Well heads Operation ) Job profile :-

# Central Polymer Facilities ( CPF )& EOR- Plant ( World Second largest Polymer Injection Plant)

# CEIL intends to implement chemical EOR process - polymer flood facilities at Mangala field which will increase the oil recoveries.

# 62 well (50 injectors, 12 producers). FM2, FM3 and FM4 require drilling an additional 64 wells (57 injectors, 7 producers). In addition, 8 nos. of the existing water injection well and 4 no. of the existing producer wells (converted into injection well) shall be used for polymer injection. Overall, there shall be total 119 no. of injectors and 19 no. of new producers.

# 1) Polymer Powder Unloading & Container Device.

# 2) Rotary Feeder for Silos (10nos) and silo Exhaust Dust Filter

# 3) Polymer Dilution System and Transfer Rotary Feeder

# 4) Polymer Screw Feeder -50t/h

# 5) Venturi Jet 10t/h

# 6) Water and Polymer Mixer Device.

# 7) Polymer Dilution Tank Agitator

# 8) Progressing Cavity Polymer Dilution Pump – 150m3/h and VFD DRIVES – Schneider electric

# 9) Mother solution Booster Pump and Coarse & Fine Filters.

# Instrumentation :-

# DCS – YOKOGAWA CENTUM VP-Configuration, maintenance, fault finding and upgrades at a detailed level. Assist Operations with system training and Assist with new Process equipment installation and startup. Demonstrates leadership in loop checking, startup, troubleshooting and commissioning support in an industrial environment.Ability to understand control philosophy and write functional requirement

# PLC – Allen Bradley, Siemens

# CONTROL VALVE – MIL, XSV,XV,-ROTEX,ON-OFF VALVE-TEER,

# MAGNETIC FLOW METER- FORBES MARSHALL ( FLOWIRL-8700)

# FT,PT,DP,TT- HONEYWELL,ROSEMOUNT,FCX,

# Utility

# 3 Stage Air Compressor X 4 (3000RPM-4600Nm3/h) Ingersoll-Rand

# Air Dryer X 2 (6400Nm3/h) PLC- Siemens ( Make – INDCON)

# Nitrogen System (675 to 725 M3/h) –( MAKE - INDCON )

# JOB RESPONSIBILITY

# - Overall commissioning management and coordination and lead the team of commissioning manpower, Review, guide and direct all manpower for different task for pre-commissioning, commissioning, performance guarantee test and operation of Central Polymer Facilities.

# - All coordination work with commissioning and team of client.

# - Close interaction with Comm. Manager and construction engineers.

# - Attending all commissioning and operation meeting for IETS internal meeting.

# - Identify and place all required resource for commissioning and operation of unit.

# - Reviewing operating manuals and make a best plan of operating pried.

# - Co-ordinate with Client, Contractors, Suppliers and Licensors to ensure a smooth and safe start up

# - Investigate technical problems with assistance from FW specialist engineers and suppliers.

# - Finish all the operating and Com. Job and update the daily report to HO.

**-** Demonstrate HSE Leadership by emphasizing personal commitment to HSE.

- Experience in procurement activities for Field Instruments, Fire & Gas Detectors, and Control system (preparation of technical Requisition/specification, Data sheets, technical bid analysis, order specifications, supplier document review, coordination with suppliers,

**Supervises, directs & controls instrument maintenance activities in an assigned area / Responsibilities include supervising on-line testing, modification, construction activities especially of complex nature; commenting on designs / drawings / specifications, recommending improvement of operating conditions, work procedures / standards; personally performing maintenance jobs on highly complex / sophisticated instrument equipment / systems and carrying out special / non-routine assignments.**

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# 2nd Company& Profile (Sep 2014 to May 2015) 8 MONTHS

**Profile -Essar Project client Indian oil Corp.ltd Terminal – Jodhpur(Rajasthan-India)**

**Lead Instrument Engg.- (CONE ROOF TANK,FLOATING ROOF TANK,UG TANK-21NOS)**

Product- **ATF,MS,DHPP,SKO,HSD,ETHENOL AND PIPE LINE**

GAP Analysis Report on existing TAS features vis-a-vis revised FDR and study of existing Terminal for installation of Terminal Automation System and integration of additional facilities included as per M B Lal. The existing terminal automation system at our Depots / Terminals needs to be studied carefully to identify the extent of up gradation required from the existing vendor, modification of the existing system, inter facing the safety PLC, integration of the hydrocarbon detection system, dyke wall position indicator, ROSOV operation etc. During the field survey, the team member who has expertise in automation system should also check for the health of the existing system and in exceptional circumstances recommend for scrapping of the existing system and provide a new system. In this regard, IOC shall provide appropriate platform for interaction with the existing vendors to take the decisions in the matter.

* Revivification of Design and positioning of HC detection system at pump house manifold area, dyke area of class A product tanks and sump.
* Tank level measurement device, detailing for installation.
* Study of custody transfer system - Mass Flow Meters – Envisaged at 32 locations, identify location for installation, prepared Drawing for piping modifications.
* Overfill protection shutdown system shall be SIL 2 Scheme for provision of 2? nozzle on still well and provision of Vibrating fork type level switch or  any other technology
* Integration of Terminal and pipeline PLC system
* Location of dyke valve position sensor in case of terminal location with pipeline system
* Studying corporation‘s laid down FDS, SRS and complete detailed engineering and based on Gap analysis preparing required documents wrt (i) functional design (ii) evolving makes / models of equipment which may come up additionally and (iii) specifications and data sheets for such equipments/gadgets
* Attending to pre bid meeting at the office of the Corporation for the Automation tender to be invited by IOCL including preparing minutes of meeting to be distributed to the Automation vendors
* Assistance to IOCL in preparation of technical comparative statements from the quotes up on invitation of tenders by the Corporation for accepting the makes/ models of the equipment quoted by prospective automation vendors.
* Review and Approval of data sheets including makes/ model of various material/ equipment comprising of :
* Review and approval of Functional Design Specifications (FDS) submitted by the automation vendor.
* Attending to office of the Corporation on FDS presentation to be made by automation vendor.
* Offer comments on the deviations and prepare minutes of FDS meeting
* Inspection and approval of the materials/ equipment at vendor/ sub vendor‘s factory premises.
* EPC – PLC,ESD,CCR,WATER PUMP HOUSE,HVLR,MASS FLOW METER,RIM SEAL SYSTEM FOR FLOTING ROOF TANK,AIR COMPRESSOR ,CONE ROOF & UG TANK, TANK FARM MANAGEMENT SYSTEM –AOPS,MST,RADAR,PT,XSV,DBBV,LIMIT SWITCH,HC DETECTOR,

# 1st Company& Profile - CAIRN INDIA & ONGC- Barmer (Rajasthan-India) (July2009 to Sep 2014) 5 YEARS

* Competent and diligent Engineer with start **(2009 TO 2014) 5 years of experience** in **O&M**. Engineering and troubleshooting of a grass root **oil & Gas** Plant; spearheaded as Instrumentation Engineer with M/S **Cairn Energy Of India Limited, Barmer (Rajasthan) under deputation of Sach Electromech Pvt. Ltd.**
* Good knowledge of Industrial Standards and Safety Norms (HSE–Health, Safety & Environment); demonstrated capability in installation & commissioning of a wide range of Process machinery & equipments and process operation of DCS-PLC & SCADA based on Edible processing terminal.

**CEIL**- The Company operates the largest producing oil field in the Indian private sector and has pioneered the use of cutting-edge technology to extend production life. **Cairn India** and its JV partner **ONGC** have set up the Mangala Processing Terminal in Barmer to process the crude from the Rajasthan fields A continuously heated and insulated pipeline has also been constructed to transport the crude from Barmer to Bhogat in the coast of Gujarat. In Rajasthan,

post Government of India (GOI) approval for higher Mangala offtake of 150,000 bopd, production from the block is currently at 175,000 bopd.

**Jobs & Responsibilities**

**Instrumentation Engineer**

* Troubleshooting of PLC and DCS loops.
* Calibration & Maintenance of Field instruments like Smart field transmitter, Guided radar level transmitter, thermal mass flow meter, Vortex flow meter, Displacer level transmitter, MIL control valve.
* Adjustment of vibration probes on rotary equipment.
* Interlock logic and shutdown Sequence checking of the plant.
* Troubleshooting & Maintenance of instruments in following area:
	+ Instrument Air Compressors. ( ATLAS-COPCO)
	+ Air Drying Compressors.
	+ ESD systems
	+ Fire and water system.
	+ Building Fire and Gas system.
	+ Cause & Effect checking for Wellpad ESD logic.
* Maintenance of Wellpad smart field instruments.
* Ability to multitask, prioritize and work will under pressure, fault diagnose with cause & effect drawing. Lead an instrument maintenance team.
* Servicing, Calibration, Installation of process control instrument. Day to day corrective & preventive maintenance of running plant as per CAIRN standard operating procedures and safety standard rules.
* SAP system – Know about healthy knowledge for SAP PM Module.

**Instruments & Systems Handled**

* Installation, Maintenance, Programming, calibration of various type instruments like
* **Level measurement instrument**
* Guided wave Radar Level transmitters (E & H, Rosemount), Ultrasonic level transmitters (Emerson), Displacer type level transmitter (MIL Control), DP type level transmitters (Emerson, ABB, Honeywell),
* **Flow measurement instruments**
* Magnetic flow meter (Krohne, Emerson, E &H), Mass Flow meter (Emerson), Vortex Flow meter ( E & H, Emerson ). DP type flow meter (ABB, Rosemount), Ultrasonic Flowmeter (GE sensing transport PT-878).
* **Pressure measurement instruments**
* Electronic Smart/Analog pressure transmitters (Emerson, Honeywell, Yokogawa, E & H, ABB)
* Pressure switch (Indfoss, Switczer, Danfoss)
* **Control valves**
* MIL control, Fisher control, Kentincontrol etc.
* **Shutdown valves**
* Rotex automation control, Rotork control, Camron.

**Technical Skills**

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| --- | --- |
| **Yokogawa DCS** | CS-3000(Plant control System, Safety Control System, Fire & Gas System, SIOS) – commissioning, maintenance, troubleshooting, SOE, Graphic modifications, Daily reports, basic logic changes etc. |
| **Siemens PLC** **Allen Bradley PLC** | Basic Knowledge of operation and maintenance. Worked on SIMATIC WinCC flexible 2008Commissioning, maintenance, troubleshooting, Logic changes etc. |
| **Fire and Gas system** | Gas detectors, Fire detectors, Deluge valves, TYCO & NSC fire alarm and suppression system etc.  |
| **ESP VFD** | Commissioning, Maintenance and troubleshooting etc. |
| **Valves****GE Bentley Nevada3500****Others Instruments** | Control valves, Choke valves, Shutdown Valves (hydraulic/pneumatic), Deluge valves etc.VMS system operation & maintenance, Troubleshooting etc.Digital indicators, Alarms Annunciators, Temp Scanner, Pressure, Temperature, Level, Flow, DP – Switches & Gauges etc. |

**Professional Training**

* + - **Training on Cairn Permit to work.**
		- **Training on Elementary First Aid.**
		- **Training on Fire Prevention & Advance Fire Fighting.**
		- **Baker Hughes ESP VFD operation and troubleshooting.**
		- **Allen Bradley PLC operation, maintenance and troubleshooting.**
		- **Yokogawa CS-3000, STARTDOM, PRM & RTU.**
		- **HAZOP.**
		- **Authorize Gas Tester.**
		- **Bentley Nevada 3500 VMS System operation and troubleshooting.**
		- **Training on Slamburger MPFM operation & maintenance, Troubleshooting.**
		- **Training on Slamburger VFD operation & maintenance, Troubleshooting.**

# EDUCATIONAL QUALIFICATIONS

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| --- | --- | --- | --- |
| **Degree** | **Year of Passing** | **Grade** |  **Board/University** |
| Diploma Instrumentation & Control  | May-2009 |  (51.00%) | Christ College Rajkot T.E.B |
| BE (Inst) | May-2010 |  Distant | The Institution of Engineers(India) Kolkata |
| H.S.C. | Oct-2005 | (48.62%) | G.H.S.E.B. |
| S.S.C. | Mar-2003 |  (56.57%)  | G.H.S.E.B. |

# PROJECT’S SUMMARY :

The Aishwariya field is the third largest discovery in the Rajasthan block. Following an assessment of higher production potential and design optimisation due to increased reserves and resources, Cairn India has commenced development work in the field.

The development will include nine well pads, 36 producer and 15 injector wells. Well fluids from Aishwariya will be collected at a Cluster Well Pad and the carbon dioxide rich associated gas will be separated before transporting the well fluid to MPT.

**RESPOSIBILITY: UPSTREAM & MID STREAM COMMISSIONING (MPT & AISHWARIYA TIE-IN)**

Fully conversant with Company's GOC requirements

Ensuring all Instrument Commissioning personnel carryout their work and are fully trained in accordance with site PTW procedures.

Understand Company's competency guidelines' for IEC 61511

Attend commissioning meetings.

Responsible for implementing, execution and completion of all discipline work-scopes detailed within Commissioning Test Procedures

Responsible for the management of all interfaces between field equipment To ICSS, ESD & PCS system.

Field Fire & Gas instruments hot loop checking like (H2s, SD, FD, OPD, MCP, MPS & Immerge system)

Closing Punch list for A & B

Compilation of a weekly progress report to their line manager.

Control of 'As building' documents in accordance with the project procedure

Coordinate Vendor call offs in accordance with construction and commissioning schedule ensuring vendors are mobilized when required.

Attend Factory Acceptance Tests at supplier’s premises.

Preparing and submitting all Inspection test reports (ITRs).

# SOFTWARE SKILLS :

* **SAP system – Know about healthy knowledge for SAP PM Module.**
* **MS-OFFICE**
* **PMs - The Easy Way-Preventive Maintenance**
* **Work Orders - An Overview**
* **Create A Work Order**
* **Inventory - Purchasing, Receiving, Parts Usage**
* **Equipment Failure Analysis**
* **Reliability Analysis**

# WORK EXPERIENCE ( 6 Year Exp.)

**1) Present CTC:-**

**2) Expected CTC:- AS PER COMPANY NORMS**

**3) Notice Period:- 30 DAYS**

**4) Passport No:- G 3897374**

**5) Contract or Permanent with current firm:- Dafeng-IETS India & Cairn India & ONGC**

**6) Current Location:- BARMER- RAJASTHAN-INDIA**

**7) Open for Relocation:- YES**

# PERSONAL INFORMATION

* **Father’s name: Nathabhai V. Kadegiya**
* **Date of birth: 2nd July, 1988**
* **Nationality: Indian**
* **Marital status: Married**
* **Language: English, Hindi, Guja**

**Jignesh N. Kadegiya**

**Signature**