**MANISH SAINI**

**E- mail: Manish\_upes@yahoo.in**

**Mobile: +91 9997432461**

|  |
| --- |
| **CAREER OBJECTIVE** |

**To achieve a suitable position in the Corrosion-Cathodic Protection field of Oil and Gas industry where my technical and managerial skills can be utilized for the growth and development of the company as well as mine.**

|  |
| --- |
| **WORK EXPERIENCE** |

**Company Name: QuEST Global**

**Profile:**  Sr. Engineer (Corrosion & Cathodic Protection)

**Duration:** August-2018 to Present

**Customer/Client: ExxonMobil**

**Responsibilities:** Technical Reports Review of Cathodic Protection & Corrosion Work. Review of Various Scheduled Cathodic Protection activities i.e. CIPS Survey, PSP Surveys, Rectifier Monitoring, Foreign Pipeline Potential, Interference, Bonds, Polarization/Kirk Cell, Carrier-Casing Potential, etc providing recommendation with reference to NACE Standard, Coating Fault Identification work, and Different type of Corrosion etc.

**Company Name: Sanmarg Projects (P) Ltd.**

**Profile:**  Corrosion-Cathodic Protection Engineer

**Duration:** May-2016 to August-2018

**Responsibilities:** Execution of various Cathodic Protection related activities I.e. Installation of Anodes, Reference Cell, Polarization Cell/Kirk Cell, Corrosion Coupon, Deep-Well Anodes, Designing Work, CIPS, Report/Graph Preparation of Surveys, AC-DC Interference Rectification Work, Review of Survey/Field Reports, PSP ON-OFF Survey, Troubleshooting of TR/CPPSM, SACP-ICCP Work etc.

**Project Details:-**

1. **CIPS ON-OFF, CAT & DCVG Survey Along Jamnagar-Loni Pipeline & Its Spur Pipeline Line**

**Owner: -** GAIL INDIA LIMITED

**Responsibilities:**

1. Execution of CIPS, CAT & DCVG Survey.

**2.** Preparation & Review of Surveys Report.

**3.** Troubleshooting of CP Unit to get Potential in Adequate Range.

4. Identify the Location of Inadequate Potential Range and take necessary mitigation action.

1. **Composite Cathodic Protection Installation & Maintenance Work of SHPL/NMPL/BNPL/KMKPL in NCR Region - GAIL India Ltd.**

**Owner: -** GAIL INDIA LIMITED

**Responsibilities:**

1. Various measurement of CP Parameters i.e. Potential Measurement, Current Measurement, ON/ON-OFF Survey, Current Density, MMO Anodes Monitoring, CP Unit Parameters etc.
2. Preparation of Monitoring Reports & Recommendations to be given, If Potentials is observed out of permissible range in Monitoring reports i.e. During the Checking of AJB/CJB/TJB, TRU, Permanent Reference Cell, and Corrosion Coupon & Execution of Rectification/Mitigation work.
3. Troubleshooting of TRU/CPPSM comprises checking of various parameters, back voltage, Current density, Health of Reference Cell, Over Protection/Under Protection limit, Output Voltage/Output Current, Working on Auto/CVCC mode, Interrupters check up etc.
4. Installation of various type of TLP, Galvanic Anodes (Zn, Mg), MMO Anodes, Kirk Cell/Polarization Cell, Pin Brazing Job.
5. Mitigation work for various problems comprises Interference, Very High Potential, HVDC/HT Crossing, and Presence of nearby Metallic Structure, failure of Reference Cell etc.
6. To present various technical aspects & proposals of cathodic protection system to enhance Protection and efficiency level of existing CP system.
7. Mitigation of High Potential, High Grounding Anode Resistance, and High Induced AC Voltage by applying SOPs.
8. Application of Coating Work (Cold Tape) on Pipeline section if Coating found damage or if it required.
9. **Cathodic Protection System Monitoring & Maintenance, MMPL (BPCL)**

**Owner: -** Bharat Petroleum Corporation Ltd.

**Responsibilities:**

1. Execution of Maintenance activities comprises Monitoring of AJB, CJB, Diode Panel, Reference Cell, Zinc Grounding Cell, Kirk/SSD Cell.
2. TRU Troubleshooting, 24 Hrs Data Logging of Diode Panel (Installed at DC Transit Affected Region).
3. Execution of Required Action for the mitigation of HVDC.
4. **Corrosion Mitigation & Maintenance Job For Cathodic Protection System at GAIL-India, Pata Petrochemical Plant**

**Owner: -** GAIL India, PATA Petrochemical Plant

**Responsibilities:**

1. Mitigation work & Recommendations to be given, If Potentials is observed to be out of permissible range in Monitoring work i.e. During the Checking of AJB/CJB/TJB, TRU, Permanent Reference Cell, and Corrosion Coupon.
2. Analysis of Data, Recommendation with Material Specs & Drawing for Mitigation action Proposed.
3. Review of Monitoring/ Preventing Maintenance/ Breakdown Maintenance activities.
4. Responsible for the Proper working of Different types of Anode i.e. Vertical Distributed Anode, Wire Line Anode, Horizontal Anode, and Deep Well-Semi Deep Well Anode.
5. Responsible for Installation of Different types of Anode, Permanent Reference Cell, Corrosion Coupon, Junction Boxes, Polarization Cell, Zinc Grounding Cell, Surge Diverter etc.
6. Planning & Execution of Maintenance/Installation activity for Cathodic Protection.
7. Selection of Bonding Points for Maintaining Equal Potential between Parallel running Pipelines i.e. Fire Water, Cooling Water, Raw Water.
8. Execution of Interruption or Depolarization test along with the Monitoring of Field Parameters through SCADA.
9. Providing Assistance, Supervision in identifying, tracing & rectification work of Cathodic Protection.

**Company Name: Raychem RPG Ltd.**

**Profile:** Corrosion-CP Engineer (Oil & Gas Division)

**Duration:** June 2014 to December 2015

**Responsibilities:**

1. Project Management, Execution of Permanent Cathodic Protection & Temporary Cathodic Protection installation work along with Designing and Pre/Post commissioning Surveys.
2. Conducting a corrosion survey & data collection
3. Erection of Corrosion Monitoring Probes at Vulnerable locations
4. Reports Preparation and Review of Effectiveness of Cathodic Protection System, Health, Weekly-Monthly Site Progress etc.
5. Client interaction and make them ensure about services by timely execution of work, communication set up between client, customer and contractors.
6. To present various technical aspects & proposals of cathodic protection system to various clients in regard of Marketing/Project Execution.

**Project Details:-**

1. **Rewari-Kanpur Pipeline Project (RKPL), 428 Kms**

**Owner: -** Hindustan Petroleum Corporation Limited

**Pipeline Contractor: -** Kazstroy Service Infrastructure (KSS)

**Consultant: -**WorlyParson Pvt. Ltd.

**Responsibilities:-**

1. Installation work of Temporary Cathodic Protection (TCP), Permanent Cathodic Protection (PCP).
2. Corrosion Survey, Pre designing survey, post commissioning survey (CIPL, DCVG), Various Anode Installation, Installation of various type of TLP, Polarization cell, Thermit welding/Pin Brazing etc.
3. Preparation of IMIR of Material, Making of Corrosion Monitoring Coupons, Uses of Zinc Ribbon anode.
4. Interpretation of Corrosion Monitoring Coupons parameters and its mitigation.
5. Preparation of Mitigation method, Project management, PSP Measuring, EPMC Service for Project, Work planning according to work front availability,
6. Proper commissioning of different types of TLP according to the requirement of pipeline protection and checking of PSP Voltage according to the NACE standard & Criteria Etc.
7. Installation of CTSU (computerized Test station Unit), Surge Diverter, Permanent Reference Cell etc.
8. Execution of Monthly PSP Monitoring Work, Report submission and take action if PSP value crosses NACE standard or Criteria.
9. Installation of Deep Well/Horizontal/Semi Deep Well PCP Anode, CJB/AJB, TRU/CPPSM etc.
10. **Shadol-Phulpur Pipeline Project(SHHPL), 302 Kms**

**Owner: -** Reliance Gas Pipeline Ltd.

**Pipeline Contractor: -** China Petroleum & Ace Pipeline

**Consultant: -**Sanmarg Project & Bonance

**Responsibilities:-**

1. Deputed as a Technical Engineer (NACE Certified) For Execution of the Project as well as responsible for any Technical Corrosion-CP related issues.
2. TCP & PCP Work, Mitigation for HVDC Xing, Relocation of Exiting Anode Bed.
3. Corrosion Survey, Resistivity Surveys, Project management.

**Company Name: Sanmarg Projects (P) Limited**

**Profile:** Executive Engineer

**Duration:** September 2011 to October 2013

**Project Details:-**

1. **Owner: HPCL-MITTAL PIPELINE LIMITED**

**Responsibilities:-**

**1**- Execution of Cathodic Protection Surveys i.e. CIPL, DCVG, CAT, PSP Monitoring Surveys, monitoring of PCP system by maintain of TRU Parameters.

**2**- Measurement of Anode Bed Resistance installed near to the Pipeline and submission of the same to the Client after analysing according to NACE Standard.

**3**- Time to time involvement in Pipe to soil potential survey, preparation of report both in term of Graphical representation of PSP value vs. pipeline chain age and analyse line condition, hot spot.

**4**. Aware of insulating flange, and working of pipeline locator, holiday detector, surge diverter, Anode Bed, Recording of PSP data through Current Interrupter.

**5**- Cathodic Protection Monitoring and Maintenance, measurement of pipe to soil potential as per scheduled and according to the NACE Standard and preparing PSP survey report.

**6**- Worked in Master Control Room as a Coordinator to look and coordinate all Mainline CP Parameters through Remote Monitoring.

1. **Owner: Gujarat State Petronet Limited**

**Description:** Reviewing of various CP monitoring and maintenance parameters and submission of report with recommendation for GSPC’s pipelines at various maintenance bases.

**Responsibilities:-**

**1-** Worked as a Project In-Charge in GSPL CP Project.

**2-** Reviewing of CP parameter & efficiency of the system, Recommendation, quarterly presentation for various measured parameters to client.

**3**- Submission of Report to the Clients which give the Detail of Healthiness of Permanent Cathodic Protection System, HT Line Crossing, Condition of Polarization Cell and TRU and AJB etc.

1. **Owner: - MBPL (Mundra-Bhatinda Pipeline)**

**Responsibilities:-**

**1**- All the operation and maintenance activities including Corrosion Monitoring & assessment of HMPL crude oil main pipeline from Mundra to Bhatinda (1014 Km), including SV stations and intermediate pumping station.

**2**- Attend the pipeline pilferage emergency to rectify the problem and get the practical knowledge about the recovery operation i.e. clamp, coating work and material, DPT test, HOLIDAY test and many other things related to it.

**3**- Operation and maintenance of MOV (Motor operating valve), plug valve, gate valve and many others on routine basis.

**4-** Maintenance and calibration of all electrical/mechanical/instruments, equipment located at SV/IPS locations by self or by authorized dealersand prepares the report daily.

**5-** Preparing RA-Bills, manage site expenses, preparing formats which are necessary in Running Amount bills for client.

**6-** All receipt and dispatch operations are supervised and control by SCADA, DCS and PLC operations.

**7-** Coordinate Pipeline Operation/Maintenance activities Crude Oil Terminal Control Room.

**8-** Carrying out all operational activities like Tank line up, Sampling, Manual gauging, Pump line up, Water Draining, Pump operations and other all routine field activities as per SOP.

**9-** Issuing of Permits for Hot/cold/Radiography works and carrying out the work in Safety procedure. Also took Additional responsibility of Safety Coordinator work imparting regular Tool Box Talks to the Construction Contractor’s Supervisors and Workmen.

**10**- Knowledge about the different types of Storages Tanks, Terminal activities like planning of tanks for receipt of product from cross-country pipeline.

**11**- O&M of LFP (Land Fall Point) in MBPL.

**12**-Trouble suiting of PLC, Fire Alarm Panels, Battery Chargers, Telecom Panel, CCTV etc.

**13**- Mainline greasing of MOV (Motor Operated Valves), venting &ROW (Right of Work) inspection.

**14**-Visualizing all PLC/SCADA & RTU signals from control room

**15**- Knowledge of ISO 9001:2008 Quality management system and supports its implementation on working sites.

**16**- Qualified Internal Auditor certificate- ISO 9001:2008 (Quality Management System).

|  |
| --- |
| **ACADEMIC BACKGROUND** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year(s)** | **Qualification – Degree / Diploma / Certificate** | **Board** | **College/ Institute/ University** | **% /CGPA /Status** |
| 2011 | B. Tech  Applied Petroleum Engineering | University of Petroleum & Energy Studies | College of Engineering, Dehradun | 64% |
| 2015, Jan | CP-1, NACE | National Association Of Corrosion Engineers | National Association Of Corrosion Engineers | Certification No-  57084 |
| 2015, Apr | CP-2, NACE | National Association Of Corrosion Engineers | National Association Of Corrosion Engineers | Certification No-  57084 |
| 2006 | All India Senior Secondary School Examination | U.P.Board | Maharishi Dayanand  Inter College, Saharanpur(UP) | 70.6% |

|  |
| --- |
| **AREA OF INTERESTS** |

* Corrosion Monitoring & Mitigation
* Cathodic Protection Operations
* Cathodic Protection Surveys

|  |
| --- |
| **CO-CURRICULAR ACTIVITIES** |

* Achieve 'B' certificate in N.C.C. with army attachment camp.
* Regular participant to trekking organized by University and NCC.
* Participated in college level cricket Tournament
* Participated in college level volleyball Tournament.

|  |
| --- |
| **COMPUTER SKILLS** |

* Operating System: Microsoft Windows 95/98/XP/vista/7
* Languages: C++, Visual Basic
* Software: AutoCAD 2006

|  |
| --- |
| **PERSONAL DETAILS** |

**Father's name** : Dr. M.S. Saini(Kusumveer Saini)

**Date of Birth** : August 10, 1988

**Nationality** : Indian

**Permanent Address** : S/o Dr. Kusumveer Saini, Saini Clinic, Main Bazar, Ambehta Peer,

Saharanpur, Uttar Pradesh, Pin Code- 247340

**Mobile Number** : +919997432461

**Languages Known** : Hindi and English

**Mobility**  : Willing to relocate anywhere in India and overseas

**Passport Number** : K7314683

**Driving License Number** : UP11 20090442250