**SUNIL YADAV**

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|  |  |
| Diploma- Instrumentation and Control Engineer | **:**+918980550504 |
|  |  |
| Total Experience**: 6** Years **3** Months | **:** sunilkhola049@gmail.com |
| Add: Rewari,Haryana-123411 | **DoB:** 06rd March 1992 |



**Objective:**

To attain a position of excellence in Engineering Industry and wish to work in a challenging and creative environment, with strong zeal towards achievement of goals. Engineering, Management field presents a wide array in this aspect.

**Professional Profile:**

Graduate (Instrumentation and Control) Engineer around **six years and three months** of professional experience in **Instrumentation and Control** field with multi discipline aspects such as **Engineering, Construction, Commissioning and Startup** in Power industry.

**Job Synopsis:**

* Experience in the Coal Fired Power Plant, Water Treatment Plant, Turbo-Compressor Plant , Testing & Commissioning of Field Instruments with Distributed Control Systems, Programming Logic Controls, SCADA and other controllers.
* Calibration, Installation and Commissioning of all the types of field instruments as per specification.
* Performing loop check, logic check, Cause & Effect check and Control Narrative checks.
* To implement and test a wide range of I/O in HART and Foundation field bus communications via Modbus, Profibus etc. control function, interlocks, sequences, operator interface and other control components on DCS, PLC and SCADA.
* Facilitating the Operator by Generation of New graphics with Innovative ideas that reduce the operator time of work during critical Plant Conditions.
* Maintaining Spares, stokes and maintenance of Plant through Material Management and Plant Maintenance Module in SAP.

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| **Job Experiences :** |  |  |
| **1.** | Project |  | : | 80+43 MW Power Plant (STG, AFBC+CFBC Boiler) |
|  | Current Employer | : | **Welspun Captive Power Generation Ltd,Gujarat** |
|  | Designation | : | Engineer- Instrumentation |
|  | Duration | : | 3nd September 2012 – Till date |
|  |  |  |  |
|  | TURBINE MAKE  |  :  | **43MW BHEL TURBINE** |
|  |  |  | **80MW DONG FANG TURBINE** |
|  |  |  |  |
|  | BOILER MAKE | : | **1x350 TPH CFBC THERMAX MAKE** |
|  |  |  | **2X105 TPH AFBC THERMAX MAKE****1X350 TPH CFBC ISGEC MAKE** |
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**Job Responsibilities:**

* Conversant with Preparation, Verification, Identification and Implementation of the technical queries in loop diagrams, datasheets, instrument index, I/O Schedules, inter-connection diagram, Marshaling cabinet & Junction box wiring diagram, P&ID’s, Hook-up diagrams for all DCS, and PLC system.
* Performing Serial / Modbus communication test.
* Troubleshooting the total integrated system (DCS + PLC+SCADA) and its I/O modules.
* Troubleshooting of main and redundant Profibus / Modbus communication between Remote Terminal Unit buildings / Local Equipment Rooms and the Control room.
* Calibration, Installation, Commissioning and Troubleshooting for all type of field instruments such as transmitters, (Rosemount, Yokogawa, Honeywell, Endress & Hauser, ABB ,…) Control and valves,(Fisher, MIL, Process Emerson, etc.) Motorized valves (Rotork, Auma, etc.).
* Installation and Commissioning of Fire & Gas instruments (Fire and Smoke detectors, etc.).
* Performing Motor Control loops. Calibrating and adjusting the dosing pumps.
* vibration proximity elements in Machine Monitoring System.
* Calibration, Installation and Maintenance of pressure gauges, temperature gauges and level gauges.
* Installation and Commissioning of Radar level, Ultrasonic Transmitters & D.P type level transmitters.
* Calibrating, Commissioning and Maintenance the analyzer transmitters such as pH, conductivity, DO2, CO2, and CEMS system.
* Performance test of Boiler, Turbine with the vendor.
* Inspection and installation of all the field instruments as per specification.

**Major Project Handled:**

* 350TPH IR-CFBC, **ISGEC** make, Boiler Project Planning and Erection activity.
* CHP phase-II commissioning with Siemens C-300 PLC.
* De-Mineralized Plant Automation with Siemens C-400 PLC and Yokogawa CS3000 DCS.
* Erection & commissioning of Ingersoll Rand 60000 ICFM Turbo driven Compressor.
* Modbus communication of Cameron Universal Controller TNX1200, Woodward 505E, and Bently Nevada 3500systems with Yokogawa Centum VP DCS.
* Interconnection of Yokogawa CS3000 DCS with Centum VP R5.20 DCS for centralized Operation.
* Implementation of SAP-PM module from Instrumentation side.
* Implementation of 7-S practice in Department.

**Certification:**

1. Certified for Engineering and Maintenance of Yokogawa Centum VP R5.20 DCS, trained at Yokogawa India Ltd., Bangalore. Certification No: 2018/0901-C.
2. Certified for Centum VP DCS operation at Yokogawa india ltd. Certification No: 2014/4626-C

**Works on Control System :**

**DCS and Safety System:-**

* Yokogawa – Centum CS3000 DCS
* Yokogawa Centum VP DCS

**Programmable Logic Controllers:-**

* Siemens Simatic S7 - 400
* Siemens Simatic S7 – 300

**SCADA System:-**

* Siemens WinCC 7.0

**Machine Monitoring System:-**

* Woodward 505D Governor
* Woodward 505E Governor
* Woodward 505 Governor
* Woodward PEAK-150 Governor
* Woodward SX Over Speed Protection System
* Bently Nevada – 3500
* Cameron Universal Controller TNX1200

**Fire and Gas System:**

* Tyco Fire System