

PRASHANT DIWAKAR BHADADE**(INSTRUMENTATION & CONTROL ENGINEER)****Email Id:** prashant.bhadade@gmail.com , bhadade29@gmail.com**Contact No.:** +919096133001, +917722073220**SUMMARY**

An analytical and enterprising professional **Above 7.5 + years of experience in Project Execution and Maintenance & Commissioning of Instruments and Control Systems in Power Plant, Chemical & Oil, Explosive, Process Plant Projects.** Excels in extending administrative & technical support for **erection, installation & commissioning, troubleshooting of PLC, DCS, SCADA & HMI.** Well-versed with basic engineering including reviewing **P&ID, designing basis, general specifications, data sheets, instrument index, logic diagrams, graphics, etc.** Has a strong background in enforcing budgetary controls and implementing cost rationalization measures to achieve projects' implementation within agreed time/cost parameters.

KEY SKILLS

- Equipment Instrumentation & Calibration
- Basic & Detail Engineering
- Installation & commissioning , troubleshooting of PLC, DCS, SCADA
- Erection & Commissioning of field instruments
- Engineering Document Review
- P & ID Review,
- Control Valve, & Field Instruments Knowledge
- Panel Installation,
- Preventive & Predictive Maintenance
- Cable Scheduling /Termination
- FAT & SAT
- Technical Specifications Preparation & Analysis
- Troubleshooting
- Punctual & Positive Attitude

PROFESSIONAL EXPERIENCE

Employer	Sudarshan Chemical Industries Limited, Roha (Raigarh)
Designation	Executive – Instrumentation(Project & Maint)
Duration	FEB-2018 till Date

Employer	Solar Industries India Limited(Chemical/Explosive) Nagpur
Designation	Project Executive – Instrumentation
Duration	November 2013 TO Dec 2017 (4.1 year)

Employer	Indian Oil Tanking Engineering Projects Ltd. (IOTEP)
Designation	Project Engineer – Instrumentation
Duration	June 2011 to November 2013(2.5 year)

PROJECTS AND JOB RESPONSIBILITIES

Plant : Color Pigment & Agro-Fertilizers'
Process : Chemical, Petrochemical, Fertilizers Process Plant

AT SUDARSHAN CHEMICAL INDUSTRIES LIMITED

- Handling erection/installation, calibration /commissioning/Troubleshooting loop checking of field instruments (PT, FT, PDT, LT, RTD, TC, PG, Control valves etc.)
- Handling erection/installation /Commissioning/Troubleshooting PLC, DCS, VFD, Panel, and SCADA.
- Procurement & Sizing, selection of instrument & Co-ordinates with purchase dept As well as OEM.
- Able to read P&ID, development of logic , interlock , Scada graphics ,Logic flow charts .
- Preparation of Datasheet/Specification /monitor on Inventory control
- Breakdown analysis, Root cause Analysis, Daily/weekly/Monthly review meeting.
- Preparation of Bill of Quantity (BOQ).
- Preparation of Material requisitions, Evaluation of Vendors Quotation .
- Involving Technical discussion & recommendation.
- Familiar with SAP.

AT SOLAR INDUSTRIES INDIA LIMITED

PROJECTS WORKED ON

- 1) Project :** TNT (Trinitrotoluene)
2) Project : HMX (High Melting Explosive) Plant
Process : Chemical, Petrochemical, Explosive Process Plant
DCS System : EMERSON DELTA V

- Handling detail engineering of instrumentation and overseeing selection of instruments, sizing calculations for valves and flow meters, preparation of instrument specifications and review supplier drawings
- Preparing instrument I/O list / instrument index / instrument cables schedule / JB schedule
- Preparing specifications & datasheets for various instruments like control valves, transmitters (pressure, temperature, level, flow elements, field instruments, level gauge, RTDs and thermo wells, pressure gauges etc.
- Preparing instrument loop drawings/ field wiring diagram as well as instrument hook-up drawings
- Reviewing instrument P&IDs
- Preparing instrument junction box termination
- Making cable tray layouts / instrument, JB & air distribution layouts
- Preparing of bill of material
- Handling procurement activities like preparation of enquiry requisition, purchase requisition of field instruments and control system for various vendors
- Reviewing specifications of instruments as well as inspecting various Instruments
- Preparing support schematics for instruments, junction boxes & trays
- Interfacing and coordinating with other disciplines for providing detail engineering inputs
- Supervising erection and commissioning of field instrumentation
- Preparing scope of works for contractors, vendors and fabricators
- Ensuring hazards area classification of instruments

ERECTION & COMMISSIONING ACTIVITY

- Handling erection/installation, calibration & commissioning, loop checking of field instruments (PT, FT, PDT, LT, RTD, TC, PG, etc.)
- **Handling erection/installation & commissioning of PLC, DCS, VFD panels**
- Maintaining & calibrating control valves, and involving in **FAT & SAT** activities
- **I/O channel assignment, preparing & configuring general interlock & develop process logic interlock**
- **Checking interlock as per process logic as well as modification of logic & SCADA screen, PID tuning.**
- Preparation of **Logic Diagrams.**
- Checking the redundancy of power, network for the DCS panels
- Laying power and control cables termination & glannding both DCS and field side
- Finding faults & troubleshooting them, and maintaining of control panel
- Handling instrument impulse piping & tubing work
- Handling erection of trays/ instrument panels/junction box

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- 3) Project :** Process plant Sorbitol Mono Oleic (SMO)-PolyIsoButane Sulphonic Acid (PIBSA)
Process : Chemical & Oil Process Plant
DCS System : Forbes Marshall

- Preparing cable schedule and handling enquiry specification preparation and selection
- Handling erection of trays/ instrument panels/junction box
- Laying power and control cables termination & glannding both DCS and field side
- Preparing loop diagram, hook up diagram, JB schedule etc., and provisioning preventive maintenance schedule to meet targets as per planning
- Preparing I/O list as per instrument
- Preparing work schedules, monitoring the progress, supervising works and preparing progress reports
- Coordinating with Operation, Mechanical and Structural Department for timely achieving the targets
- Inspecting the work undertaken for compliance with required quality and good workmanship practice

- Inspecting and assessing / monitoring health and safety on site
- Managing manpower and ensuring smooth functioning as well completion of the project
- Troubleshooting the PLC & HMI
- Working with Allen Bradley PLC- SLC 1500, SLC 5/04 CPU (RS logix 500/5000, HMI- Panel View plus 700/600/500, Siemens PLC S7-200, S7-300(Simatic)

AT INDIAN OIL TANKING ENGINEERING PROJECTS LTD.

Project : Adani Power Maharashtra Limited 5 X 660MW Super Critical Thermal Power Project (3300MW) Tiroda, Dist.-Gondia (MS)

DCS System : Invensys -Foxboro I/A Series

- Handling erection/installation, calibration & commissioning, loop checking of field instruments (PT, FT, PDT, LT, RTD, TC, PG, etc.)
- Commissioning of MOV & PCV
- Laying power and control cables termination & glannding both DCS and field side
- Getting involved in DCS panel power up as per architecture, power distribution & grounding scheme
- Handling erection/installation & commissioning, troubleshooting of PLC, DCS, VFD panels
- Handling instrument impulse piping & tubing work
- Handling erection of trays/ instrument panels/junction box
- Handling P&ID and instrument hook up
- Supporting Admin/Planning Department, and preparing technical documents
- Supervising the work being carried out by contractor/ subordinates
- Preparing project progress report & discussing areas of concern with the superior
- Inspecting & executing QA/QC work for all instrumentation work
- Reconciling free issue and supplied materials
- Negotiation with sub contractors, preparing cost comparative statement
- PROCESSING bills of sub contractor and arranging for timely payments.

ACADEMIC /ADDITIONAL CREDENTIALS

- 1 Month Training Program(CPP -Certified PLC Programmer From Prolific System & Tech LTD-Jan-2018
- B.E. (Electronics and Telecommunication) from Amravati University in the year **2010 with 67.38%**
- Diploma (Electronics and Communication) from Maharashtra Board (MSBTE) in the year **2007 with 70.48%**
- HSC -Nagpur Board ----**63.50 %**
- SSC -Nagpur Board ----**66.26%**

PERSONAL DETAILS

Date of Birth	October 29, 1985
Address	C/o Sudarshan colony, Bldg Sursangam Flat No.-302, Roha, Dist Raigarh (MS)
Languages Known	English, Hindi and Marathi
Passport Details	L5121024 (Valid up to 19/9/2023)
Marital status	Married.