

# Vineet Kumar

## SENIOR E&I PROFESSIONAL

Targeting challenging assignments in the domain of Electrical & Instrumentation-Engineering, Inspection-Testing & Commissioning, Project Management & Monitoring, preventive and corrective maintenance engineering in Oil, gas, Power Plants and Automation Industry with a growth-oriented organization of high repute.

**Preferred Location – Pan India**

**Availability – immediate**



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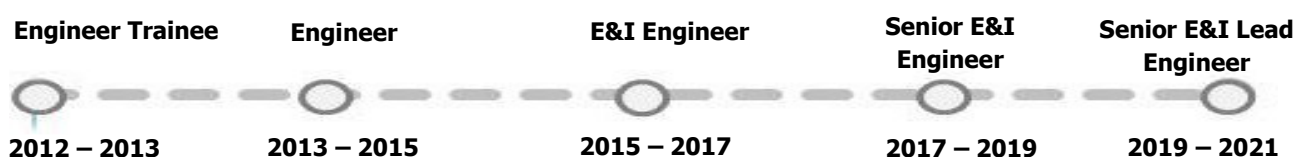
### Profile Summary

- A competent professional offering over 9 years of experience in Electrical and Control & Instrumentation across Oil and Gas industries, Power Plant Operations, BOP of Plant, Steam turbine, Gas Turbine, HRSGs, Water treatment plants, ETPs.
- Experience in the working of the field to estimate BOQ, design, Spec preparation, installation, industrial process & control systems, inspection and testing of E&I instruments/equipment.
- Forged framework agreements with manufacturers for the various instrumentation items & led standardization of technical specification of the instrumentation items which resulted in project cost and cycle time reduction
- Skilled in electrical and control & instrumentation with instrument installation, pre-commissioning & commissioning of various equipment
- Rich experience in performing preventive, corrective & troubleshooting maintenance and testing of all plant instruments, process monitoring & control protective equipment
- Rich exposure in planning and executing projects with the flair for adopting the modern methodologies in compliance with relevant legislations
- Excellent in coordinating, planning/implementing changes to technology, equipment, process methodology and directing quality assurance & control systems and reporting procedures

### Notable Accomplishments Across the Career

- Proficient in working with:
  - PLC/DCS, SCADA Systems
  - VFD & AC Drives, Analog Drives and Bi-directional Drives (MOVs)
  - RS232/485, FF, HART and MODBUS Protocols
  - Analyzers namely pH, Silica, Sodium, Conductivity, Chlorides, Phosphates
  - Hazardous area Classifications, Zone, Class, Division, Group
  - Sensors, Transducers, SOVs, Control Valves, Relays and Contactors
- Adhered to engineering standards namely ISA, IEEE, ASTM, NAMUR, ASME, ANSI, NEMA, NFPA, IEC, API
- Gained exposure in working in INDIAN Railways for Signaling and Telecom Jobs
- Streamlined cable used in fire protection and detection system for 2X660 MW Ennore Thermal Power Project and attained significant reduction in cost
- Impressive success across testing, installation, calibration, loop checking and commissioning of the field instruments (e.g.: Emerson Rosemount, ABB, Endress & Hauser, Honeywell, Yokogawa, Vega)

### Career Timeline



### Core Competencies/Knowledge Purview

Electrical and instrumentation Control Engineering	DCS/PLC Engineering	Field Instrument Engineering
A depth Knowledge of Power Plant	Inspection, Testing And commissioning	PLC Programming
Project Management	Fire Protection & Detection System Engineering	3D Modelling
Familiar with Engineering Standards like: IEEE, IEC, ASTM, ASME, NEMA, NAMUR, NFPA, ANSI	Familiar with HAZARDOUS Area classification like Zone, group, class, division and Temperature classification	Creative & Problem Solving, Good Communication and Interpersonal Skills

## Work Experience

**Since Feb'12 with Bharat Heavy Electricals Limited, as Senior Electrical & Control and Instrumentation Engineer**

### Key Result Areas:

- Steering efforts in the
  - Engineering and procurement of pressure transmitters, differential pressure transmitters, pressure gauges, differential pressure gauges, temperature transmitters, temperature gauges, resistance temperature detector, thermocouple, level transmitters, level gauges, flow transmitters and flow elements
  - Engineering and procurement of Control Systems like DCS, PLC, RTU and SCADA
  - Engineering and Procurement of electrical and instrumentation Cables e.g. HT, LT, Control and Signal Cables
- Spearheading electrical & automation systems functions for installation, configuration, testing, commissioning
- Managing project activities involving and monitoring overall project for ensuring timely completion of the same
- Preparing technical documentation for systems requisitions & performing technical evaluations
- Resolving technical queries and engineering issues with clients; reviewing contract documents
- Leading project procurement planning and management within cost and time constraints environments
- Preparing instruments installation drawing, BOQ estimation for fire detection system
- Developing logic, interlock diagrams as per requirement of process operation & client feedback
- Executing, configuring and testing of process specific interlocks; testing control panel logic and PLC logics
- Preparing project reports, identifying areas of defects; conducting troubleshooting, service and repair functions to rectify
- Participating in ISO Audit for the projects
- Assigning work responsibilities, recruiting, training & mentoring employees and managing all day-to-day functions
- Suggesting innovative measures to improve conditions and operations of equipment
- Determining long & short-term goals for equipment reliability to ensure positive results in the area of Engg. & manufacturing
- Managing activities right from the conceptualization stage to the execution; involving finalization of technical specifications, procurement, scheduling, progress monitoring, erection, testing & commissioning
- Establishing project review, monitoring and status reporting procedures to accurately report progress of the project to the end user clients
- Suggesting innovative measures to improve conditions and operations of equipment

## Career Highlights

- Provided post P.O. documents approval of DCS/PLCs, filed instruments, instrumentation cables, SWAS system
- Participated in factory acceptance test/inspection of DCS/PLCs systems, MCCs/Switchgears, SWAS system, Field instruments and fire protection and alarm system
- Prepared IO list, cable schedule, JB schedules while managing closed loop logic, drive control philosophy, Open Loop logics, cable schedule, set points & alarm list, IO assignments, thereby, adding efficiency to DCS & PLC engineering
- Reviewed P&IDs; extended procurement support to DCS/PLCs including the preparation of technical specifications, price estimation, technical scrutiny of the bidder's technical offers
- Participated in HAZOP Study & customer meetings, kick of meetings of the projects and price negotiation with vendors
- Managed layout engineering control room & SWAS room, proposal engineering of EPC projects
- Conducted site visit for commissioning support of Control system and field instruments/equipment
- Managed suppliers by evaluation, approval and registration in the PMD
- Prepared CAD drawings and documentation for the assigned project

## Significant Accomplishments:

- Forged framework agreements with manufacturers for the various instrumentation items
- Accomplished standardization of technical specification of the instrumentation items which resulted in project cost and cycle time reduction.
- Prepared SAMA based control schematic diagrams for FDA Jobs.
- Led standardization of PLC logics for fire water pumping system.

## Education

- M.Tech. (Microwave and Optical Communication) from Delhi Technological University in 2012.
- B.Tech. (Electronics & Communications) from Galgotias College of Engineering and Technology in 2009.

## IT Skills

- Windows, Microsoft Office, AutoCAD, PDMS-AVEVA, Blender, Mac.

## Volunteer Experience

- Conducted learning sessions about Control and Automation of Power Plants in BHEL
- Attended online sessions on Oil, Gas, Refinery, Plant Automation & Controls and Technology in NPTEL, Udemy, YouTube.

## Personal Details

**Date of Birth: 10th April 1987 ~ Languages Known: English & Hindi**  
**Address: Room -139A Bhel Township RC Puram Hyderabad, India-502032**  
**Details: U5652952~ No. of Dependents: 2**  
**Marital Status: Married ~ Driving License: Indian**

## Annexure (Projects)

- **51 MW (1XGT + 1XST + 1XHRSG) Natural Gas Fired Combined Cycle Power Project at Natural Gas Corporation Limited, Hazira, Gujarat, India**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering of the project
- **1X32.5MW GTG + 1X125 TPH HRSG + 1X85 TPH UB Co- Generation Plant at RFCL Ramagundam, Telangana, India**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering, Commissioning of the control systems and Field instruments of the project.
- **2X17.5 TPH HRSG Package at Gas Authority of India Ltd. - Vijaipur, MP, India**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering, Commissioning of the control systems and Field instruments of the project.
- **2X660 MW MAITREE Super Thermal Power Project at Maitree, Bangladesh**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FDA package of the project.
- **GTG, HRSG and Utility Boiler Package at Chennai Petroleum Corporation Limited Manali, India**  
Brief: Managed LT power cables, HT power cables and control cables sizing and procurement and datasheet approval.
- **Installation of New GTC Compressor at Gandhar, Gujarat**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering of the project
- **RINL Turbo Blower and Auxiliaries at Vizag, India**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering of the project.
- **National Mineral Development Corporation, Chhattisgarh, India**  
Brief: Managed LT power cables, HT power cables and control cables sizing and procurement and datasheet approval.
- **IOCL PARADIP FUEL CONVERSION PROJECT FOR 3XFr.9E GTGs**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering of the project
- **Gas Turbine based Co-Gen Plant at Oil and Natural Gas Corporation Limited, Uran Plant, Navi Mumbai, India**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering of the project.
- **Electrification and Telcom/Signaling in Indian Railways**
- **1x800 MW Kothagudam TPS, TSEGENCO, TELENGANA.**  
Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FDA package of the project.
- **2X660 MW Ennore Thermal Power Project**  
Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FDA package of the project.
- **1 X100MW NAMRUP COMBINED CYCLE REPLACEMENT POWER PROJECT**  
Brief: Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering, Commissioning of the control systems and Field instruments of the project.
- **FGD System for 3X360MW Super Thermal Critical Thermal Power Station North Karanpura**  
Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FGD package of the project.
- **3X660MW NTPC Barh Stage-I FGD Package**
- Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FGD package of the project.
- **2X660MW NTPC Barh Stage-II FGD Package**  
Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FGD package of the project.
- **NTPC - 2X490MW Dadri Stage-II FGD Package**
- Managed engineering, supply/procurement and prepared documents, while, obtaining approval of control and instrumentation engineering for FGD package of the project.