

**NABIN KISHORE BANERJEE**

**Date of Birth: April 05,1988**

**Email: [nabinkishore.banerjee@gmail.com](mailto:nabinkishore.banerjee@gmail.com)**

**Phone: +91-9830052397**

**Current Address:-**

**736, Ambedkar Nagar,  
Pipeline, Yeshwantpur,  
Bengaluru-560022,  
INDIA**



**ELECTRICAL & INSTRUMENTATION DESIGN ENGINEER**

**Objective:**

- Focused in Design, Engineering & Execution in all aspects of **Electrical & Instrumentation** system of Process & Manufacturing industries.
- A challenging job with opportunity to learn and prove my ability.
- The job should develop my decision-making skills.

**Core Competencies:**

- ✓ **10 years' experience in Electrical System design for a Process plant & Machine Designing Industries.**
- ✓ **Strong Knowledge in Electrical Circuit Design, Control panel design & OEM Equipment selection for Protection & Control of the System.**
- ✓ **From Concept to Commissioning of Turnkey basis Electrical & Instrumentation designing especially for Coal Handling, Ash Handling, Ore Mines Handling, Limestone & Gypsum Handling for FGD (Flue Gas Desulphurization), Water Handling etc.**
- ✓ **Proposal Engineering, Project Engineering, Site Support.**

**Professional Experience:**

**Current Employer: Kamtress Automation Systems Pvt Ltd. Bengaluru**

**Design Engineer : Senior Engineer (Design)**

**Duration : Jan, 2021 to till date**

**Job Responsibility:**

- ❑ Preparation of QAP & Related documents for RDSO vendor approval for the Items of different type of control panels for various type of coaches of Indian Railways.
- ❑ Planning & Development of Infrastructure requirement as per STR for seeking Vendor approval like Testing Set Up for RDSO approved items etc.
- ❑ Preparing of Back-ups, documents for RDSO, ICF & MCF registration as per STR.
- ❑ Preparation of costing, finalization of Price for bidding for developmental sources etc.
- ❑ Monitoring & report to Director of all vendor approval & production related activities

**First Earlier Employer: Bharat Heavy Electricals Limited.(A Government of India Undertaking), Bengaluru.**

**Designation : Engineer (Electrical)**

**Duration : 3th Sept, 2019 to 2th Jan, 2021.**

**Job Responsibility:**

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**Project Engineering:**

- **Basic Engineering:**

- ☐ Master deliverable list (MDL), Design Memorandum of major electrical system & safety.
- ☐ Master Single line diagram. (SLD).
- ☐ Study of Plot Plan & finalization of location of electrical building & routing layout.
- ☐ Design input adequacy & review.
- ☐ Control System Configuration.

- **Detail Engineering:**

- **Electrical:**

- ☐ HT (11KV) & LT feeder/load list, Path/stream wise HT & LT maximum demand, Transformer Sizing calculation, Illumination Sizing calculation, Capacitor Sizing calculation, Earthing & Lighting Protection sizing calculation, cable sizing calculation, battery & battery charger sizing calculation, UPS sizing calculation.
- ☐ Layout of Substation/MCC Rooms, Illumination, Earthing, Cable routing, Cable Tray etc.
- ☐ Preparation of Data sheet, drawing for client approval.

**Instrumentation:**

- ☐ Control System Configuration diagram with PLC, prepare I/O list for the process.
- ☐ Selection of Communication protocols.
- ☐ Review of P&I diagram.
- ☐ Selection of field instrument like pressure gauge, temperature gauge, temperature element, pressure transmitter, temperature transmitter.
- ☐ Process I/O list, Instrument Hook-Up drawing, Loop diagram.
- ☐ JB Schedule, pneumatic schedule.
- ☐ Control & Instrumentation cable schedule.
- ☐ Interlocking & Block Logic development of the control system.

**Proposal Engineering:**

- ☐ Tender review, pre-bid meeting, Pre-bid query.
- ☐ Study of plot plan, preparation of basic data, BOQ & costing for Tendering.

**Others functions:**

- ☐ Preparing purchase requirement & budgetary offer for procurement of Bought Out items.
- ☐ Review of vendor offer, vendor drawing as per project requirement.
- ☐ Preparation & approval of BBU.

**Software Knowledge:**

- ☐ Auto-Cad, E-TAP, PDM, CRM etc.

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**2ND Earlier Employer: M/s HMTCEngineering Company (Kolkata) Pvt Lt.**

**Designation : Design Engineer (Electrical)**

**Duration : 1th Jun, 2016 to 30<sup>th</sup> Aug, 2019.**

**Job Responsibility:**

**For EPC Environment:**

- a) Tender evaluation, Costing, Pre Bid meeting, Tender BOQ preparation etc.
- b) Making Overall Project SLD (HT & LT), Maximum Demand, Capacitor Calculation, Illumination, Earthing,
- c) Cable selection & voltage drop, etc.
- d) Layout of Transformer Room, PCC/MCC Room, Illumination, Earthing, Cable Tray etc.
- e) Preparing of purchase requirement (PR), Technical Offer review, Negotiation etc.
- f) Preparation of Data sheet, drawing for client approval.
- g) Vendor drawing review as per project requirement.
- h) Cable & Termination schedule.
- i) Selection of protection & measurement instrument like Addressable type Pull Chord Switch, Belt Sway Switch,
- j) Zero Speed Switch, Encoder, Unlicensed radio modem for the conveyor & moving machine.
- k) Making I/O & communication for entire project for Automation & control.
- l) Selection of VFD as per system requirement.
- m) Project Execute- SAIL, Bolani Ore Mines.

**For Manufacturing Environment:**

- a) Making SLD & protection of the entire system of the various Machine.
- b) Selection of Motor, Starting Method, Cable Size & Instrument for protection & control.
- c) Selection of Switch gear, Protections circuit, sensors & Controllers.
- d) Making Control Circuit as per System requirement or customer requirement.
- e) Approval of Drawing, data sheet of Motor, Brake, Rail clam, Chute jam switch, speed switch, Encoder , VFD etc. to Consultant
- f) /Client.
- g) Selection of Microcontroller, PLC , VFD for controlling the process or machine.
- h) Selection & Design of communications protocols **RS232, RS485, ETHERNET, PROFIBUS, FO, Radio Communication etc.**
- i) Provide best engineering & cost effective solution to the client.
- j) Cable laying, erection of Cable Reeling Drum, cable anchoring, protection limit switch, over speed switch, chute jam switch, Encoder & their Testing & commissioning
- k) Erection & commissioning of hydraulic system, limit switches for Flapgate.
- l) PG test of the system.
- m) Erection & Commissioning of the Tripper.
- n) Project Executed: NTPC LARA, NTPC DARLIPALI, NTPC Unchahar, RINL Vizag, SK Mines, NALCO Angul etc.

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**Third Earlier Employer: Devika Electrical Industries, Kolkata**

**Designation : Design Engineer**

**Duration: Sep, 2010 to May, 2016 (5.8 years)**

**Job Responsibility:**

**Design & Engineering:**

- a) Layout Design of MCC Panel, PCC Panel, Local Control Panel, Automatic Power Factor Control Panel, PLC Panel, VFD
- b) Panel, PLC Panel etc.
- c) Layout of OGA, Cable Routing Design etc.
- d) Selection of OEM equipments ACB, MCCB, MPCB, RCCB, MCB, Isolator, Overload etc. for DOL starter, Star Delta starter,
- e) Power Feeder & any electrical schemes.
- f) Selection of OEM equipment for Protection like Short Circuit, Over Current, Single Phasing, Phase Sequence, Earth Fault etc.
- g) Sizing & Selection of Busbar, cable Size etc.
- h) Design of Schematics & Control Circuit of various types of control panel as per customer requirement.
- i) Design of various Interlocking schemes, Automatic control scheme, Safety locking scheme etc.
- j) Design & Selection of Various hardwire communication & Wireless communication for the system etc.
- k) Selection of Sensor, Instrument & OEM equipments for complete control of the system.
- l) Selection of PLC (Siemens Make), Intelligent controller, Wiring, trouble shooting etc.
- m) Production Planning, Wiring planning, trouble shooting during manufacturing etc.

**Software: Auto-cad, MS-office, E-Plan**

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**Education:**

1. B.Tech in Electronic & Instrumentation Engineering under WBUT in 2010 @ 65%
2. Higher Secondary under WBCHSE in 2006 @ 42%
3. Secondary Examination under WBBSE in 2004 @52%

**WINDING UP**

I believe that things are always difficult before they become easy. So, I trust diligence and meticulousness for coming out of situations & predicaments.

**MOTTO: "Nothing is 'Impossible' as the word Impossible itself says 'I am possible'"**

- Present CTC- 10.80Lac
- Expected CTC-Negotiable

**PLACE- Bengaluru**

**Yours Faithfully  
Nabin Kishore Banerjee**