

Work Experience (6 Years 2 Months)

Organisation: Biopharmax India Pvt. Ltd. Pune (Mar'17 - till date)

Designation: Executive Electrical & Instrumentation

Responsibilities (Electrical):-

- Prepare Electrical engineering design deliverables of capital projects for **Pharmaceutical and biopharmaceutical**.
- Designing of **Electrical LV Panel & PLC Panel** for entire plant.
- **Load assessment, HT-LT Distribution Scheme.**
- Substation Equipment layout, **Trench Layout, Sectional layout for transformer & trench, HT-LT Cable Routing.**
- **Equipment sizing calculation** for Transformer, DG, UPS.
- Selection, Calculation & designing **Earthing layout & Lightning Layout.**
- Preparation of **Power / Socket Layout** as per process load list & SLD for Sockets.
- **Fire alarm System Layout** as per NFPA standard, selection of **CCTV & Layout for CCTV.**
- Calculation & Designing of **Lighting Layout in DIALux & SLD's** for Lighting.
- **Load List, Cable Schedule & UPS Calculation.**
- Prepare **Technical Specifications** and schedules. Calculations & Designing of **Cable Tray Layouts.**
- **Preparation of BOQ** for entire project and cost for Basic, Details Project.
- **Co-ordination** with other departments like Piping, Facility & HVAC for smooth execution of all projects.
- **Techno-Commercial comparison** for Vendors offers.
- **Vendors Drawings checking, FAT** for Electrical Panels & **Site execution support.**
- **Electrical Panel Testing, Commissioning & Documentation** of the same.
- Prepares documents during design development phase and detail design phases.
- **Quality assurance records** maintained as per **ISO** procedure.

Responsibilities (Instrumentation):-

- Preparation of **specification/Datasheet** of field instruments.
- Preparation of **Instrument Index, Schedule & Cable Tray Layout.**
- Design of the **Control network Architecture** for the Entire plant.
- **Instrument Layout & Instrument Hook-up** Drawings for the Site Engineer.
- Design of the BMS, EMS, Process Control System.
- **Preparation of BOQ** for entire project and cost for Basic, Details Project.
- **Vendors Drawings checking, FAT** for Control Panels & **Site execution support.**
- **Quality assurance records** maintained as per **ISO** procedure.

Responsibilities (Site Engineer):-

- **Site execution** as per as approved drawings. **Cable scheduling & its route selection.**
- **Manage teams** of electrical contractors and subcontractors,
- **Co-ordination with other facilities** on site.
- **Preparation of site schedules** depends on site condition.
- **Testing of all equipment** and systems upon completion of installation.
- **Estimates prepare and assign the resources** such as manpower, materials, consumables, equipment, tools, etc., required for all electrical and related works prior to execution.

Organisation: Yashvi Creations & Consultancy, Pune (July'15 - Mar'17)

Designation: Project Engineer Electrical

Responsibilities (Electrical):-

- Designing **Electrical & Control Panel** of Automobile, Water Treatment plant.
- Preparation of **SLD's, BOQ & Designing of Load Bank Panels.**
- **Pneumatics drawings** for Automobile Tools & Fixtures.
- Designing of **Cable Tray Layouts.**
- Preparation of **Cable Schedule, Instrument Index & BOM.**
- **Power & Load Calculation & UPS Calculation.**
- **Technical Discussion with customer** regarding of Project.
- **FAT** for Electrical Panels & **Site execution** support.

Organisation: National Resistors, Pune (June'14 - June'15)

Designation: Design Engineer

Responsibilities (Electrical):-

- Designing **Electrical & Control Panel** of Load banks & Neutral Grounding Resistors (NGR).
- Preparation of **SLD's, BOQ & Designing of Load Bank Panels.**
- **Inspection of Panel with client.**
- **FAT** for Electrical Panels & **Site execution** support.
- Preparation of **as built Drawing.**
- **Material management.**

Projects Undertaken:-

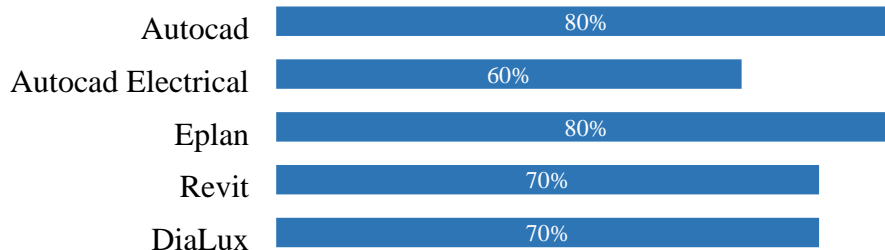
- **Epygen Biotech, Patalganga :-**
Design of Electrical system which includes Electrical layouts, Panel Design, testing and FAT for panels & site execution.
 1. Cable tray layouts, Power layouts, Lighting layouts, Raceway layouts, Earthing Layout.
 2. Electrical panel design for main panel, HVAC panel, Utility Panel, Distribution board SLD & SLD's for local panel of AHU.
 3. Techno-commercial comparison of vendors offers.
 4. Site execution, Panel installation & testing, cold & hot loop testing.
 5. Instrument Hook-up Drawings & Location Drawing.
 6. BOQ Preparation.
 7. As built Drawings Preparation.
- **Healthcare Pharmaceuticals Ltd, Bangladesh - CEPHA Plant.**
- **Healthcare Pharmaceuticals Ltd, Bangladesh - COE Plant.**
- **Healthcare Pharmaceuticals Ltd, Bangladesh - OSD Plant.**
- **Healthcare Pharmaceuticals Ltd, Bangladesh - Micro logy Plant.**
 1. Cable tray layouts, Power layouts, lighting layouts.
 2. Electrical panel design for main panel, HVAC panel, Utility Panel, Distribution board SLD & SLD's for local panel of AHU.
 3. Control Network Diagram (System Architecture).
 4. Design of BMS and EMS systems for Controlling and monitoring of the HVAC parameters, Temperature, Humidity and Pressure.
 5. Instrument Hook-up Drawings & Location Drawing.
 6. BOQ Preparation.

- **Anthem Biosciences Pvt Ltd, Bangalore.**
- **Jubilant Life Sciences Ltd.**
- **Abbott Life Sciences Ltd, Mumbai.**
- **Shantha Biotech, Hyderabad.**
- **Omniactive Health Technology, Hosur.**
 1. Cable tray layouts, Power layouts, Lighting layouts, Raceway layouts, Earthing Layout, CCTV layouts, Equipment's layout.
 2. Control Network Diagram (System Architecture).
 3. Electrical panel design for main panel, HVAC panel, Utility Panel, Distribution board SLD & SLD's for local panel of AHU.
 4. Instrument Hook-up Drawings & Location Drawing.
 5. BOQ Preparation for Electrical & Instrumentation.
- **Accord Healthcare, UK.**
 1. Cable tray layouts, Power layouts, Lighting layouts, Raceway layouts Earthing Layout, CCTV layouts, Equipment's layout.
 2. Electrical panel design for main panel, HVAC panel, Utility Panel, Distribution board SLD & SLD's for local panel of AHU.
 3. BOQ Preparation for Electrical & Instrumentation.
 4. Techno-commercial comparison of vendors offers.
 5. Instrument Hook-up Drawings & Location Drawing.
 6. Control Network Diagram (System Architecture).
- **Omni Active Health Technology, Pune.**
Execution of Electrical & Control system for flame proof area of class II, which includes Electrical layouts, Panel Design, testing & execution of Instruments & control system.
 1. Installation of MCC & PLC Panel. Distribution Boards & Package panel Installation.
 2. Cable Schedule Preparation for electrical panels & Instruments, Cable route finalization.
 3. Installation of agitator tanks & pumps. Installation of instruments, Control valves.
 4. Testing of all equipment and systems upon completion of installation.
 5. Dry run test for Motors & VFD parameterization.
 6. Preparation of site schedules depends on site condition & PR for material.
 7. Co-ordination between HVAC, Piping & Electrical Contractor.
 8. Measurement Preparation for Electrical & Instrumentation contractor.
 9. As built Drawings Preparation.
- **Reliance Power, Mumbai.**
- **Delhi Electric Company, Delhi.**
- **Torrent Power, Delhi.**
 1. Estimation & designing of Neutral Grounding Resistor (NGR) & Load Banks.
 2. Panel inspections.
 3. BOQ Generation.
 4. As made Drawings Preparation.
- **COMAU Robotics (B556-Project), Pune.**
- **Wooshin Engineering (TML-1516) Pune.**
 1. Designing & Drafting of Electrical & PLC panel for automotive line in Eplan.
 2. Tools & Fixture Pneumatics Drawings preparations.
 3. BOQ Generation.
 4. Network Architecture of Control Loop.
 5. Support to Panel Building & Site Support.
 6. As made Drawings Preparation.

• **Horizon Environmental Services, Pune.**

1. Designing & Drafting of Electrical & PLC panel for Water Treatment Plants.
2. Execution of Electrical of PLC panels for agitator tanks.
3. Site Visits for taking inputs for preparation panel.
4. BOQ Generation.
5. Support to Panel Building & Site Support.
6. As made Drawings Preparation.

Tool Awareness:-



Academics Records:-

2014	B.E.(E & TC)Pune University.	Sinhgad Institute Of Technology, Lonavala.	70.26%
2011	Diploma (E & TC)	Dr. D. Y. Patil Polytechnic,Kolhapur	82.18%
2008	HSC	Vivekananda College, Kolhapur	67.83%
2006	SSC	J V M School, Kolhapur	70.26%

Scholastic achievements:-

- Autodesk Authorised Certified Professional.
- Winner in BE Project (IEEE) Competition.
- 2nd topper in Diploma.

Co-curricular Activity:-

- Cultural Committee Member in Biopharmax.
- Event Manager of EESA.
- President of National Student Union of India.
- Active Participant of NSS for 2 years.

Personal Information:-

- Language Proficiency: English, Hindi, Marathi.
- Interest: Trekking, Swimming, Poem writing.
- Date of Birth: 30th Apr. 1991
- Current Address: Flat No. 5, Kalika Paradise, Chinchwad-gaon, Pimpri Chinchwad, Pin-411033.

I hereby declare that all the above information furnished by me is true to the best of my knowledge.

Date:-

Mahesh Randive