

MECHANICAL ENGINEER

Ajay Nath Tiwari

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I wish to be a part of the challenging and prospective field where innovative ideas are the most encouraged. I look forward to work in a challenging environment where I also to streamline my efforts towards the fulfillment of goals of the organization, which I join.

SYNOPSIS

- **Mechanical Engineering** professional with **10Years of** experience in mechanical, electrical, and plumbing (MEP) systems in high-rise building projects.
- Demonstrated expertise in conducting installations, maintenance, and troubleshooting of electrical systems, including conduiting and high-voltage cabling.
- Skilled in plumbing installation and maintenance, with a strong focus on quality assurance and safety compliance. Committed to delivering projects on time and within budget while fostering a culture of excellence and efficiency in all engineering operations.

CORE COMPETENCIES

Piping, structural billing & Planning

- Executed U/G,A/G Piping, Fire Water System, Open & Closed Drain system (CS)
- Monitoring daily activities on day to day basis and meeting targets of construction schedule
- Delegating day to day activities to engineers, foreman for execution of field activities to meet construction schedule
- Fabrication and erection of process piping and utility systems
- Effective utilization of Men, Materials and Plant & Machineries available at Worksites
- Prepare MTO and selection of piping commodities Check for correctness and completeness of the materials.
- Review fabricated erected or installed lines as per latest isometric drawing for construction.
- Documentation, inspecting the fabrication and installation of pipelines.
- Familiar in P&ID and coordination engineering and concerned Departments.
- Organizes material for upcoming jobs in advance.

Key Responsibilities during Probation:

1. Structure Work:

- Designed, fabricated, and installed structural components for industrial piping systems, ensuring compliance with safety and engineering standards.
- Coordinated with multidisciplinary teams to deliver structural support solutions for complex piping layouts.
- Supervised the construction and erection of structural steel, ensuring adherence to project timelines and quality control procedures.
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2. Utility Piping:

- Manage fabrication and erection processes for various piping systems.
- Conduct regular inspections to ensure the quality and safety of installed pipelines.
- Prepare Material Take-Off (MTO) lists and select appropriate piping commodities based on project specifications.

3. HVAC Systems:

- Conduct installation, maintenance, and troubleshooting of HVAC systems.
- Ensure compliance with environmental standards and safety regulations.
- Participate in on-the-job training sessions and demonstrate proficiency in HVAC-related tasks.

4. Plumbing:

- Conduct installation of plumbing systems, including pipes, fixtures, and appliances, ensuring all components are properly connected and meet design specifications.
- Perform routine maintenance on plumbing systems to prevent leaks, clogs, and other issues, ensuring optimal performance and longevity.
- Diagnose and repair plumbing issues, including leaks, drainage problems, and malfunctioning fixtures, utilizing appropriate tools and techniques.
- Ensure all plumbing installations and repairs comply with local building codes, environmental standards, and safety regulations.
- Participate in training sessions to enhance plumbing skills, demonstrating proficiency in installation, maintenance, and troubleshooting tasks.

5. Fire Fighting Systems:

- Oversee the installation and maintenance of fire suppression systems, including UG (Underground) and AG (Above Ground) piping.
- Ensure systems meet local and national fire safety standards.
- Coordinate with clients and project management teams to resolve any issues related to fire safety installations.

6. Fire Alarm System

- Designed and installed fire alarm systems, including smoke detectors, heat sensors, and alarm panels, for commercial, industrial, and residential buildings.
- Collaborated with architects and electrical engineers to integrate fire alarm systems into building designs, ensuring code compliance and functionality.
- Ensured proper placement of fire detection equipment according to fire safety regulations and project requirements.

7. Electrical Works:

- Managed the quality assurance processes for all electrical works, including conduiting, distribution board (DB) installation, high-voltage cabling, and general electrical systems.
- Ensured all installations met industry standards and safety regulations through detailed inspections and testing
- Developed quality control measures to enhance installation efficiency, reducing rework and project delays.
- Collaborated with project managers, engineers, and subcontractors to resolve quality-related issues swiftly.
- Maintained comprehensive records of quality audits and compliance reports to support continuous improvement initiatives

Conduiting

Conduiting involves the installation of protective tubes or channels that house electrical wiring, ensuring safety and organization. This work includes selecting the appropriate type of conduit (e.g., PVC, EMT, or rigid metal) based on environmental conditions, load requirements, and building codes. Proper conduiting is crucial for preventing damage to wires, reducing fire hazards, and facilitating maintenance.

Distribution Board (DB) Installation

Distribution board installation is the process of setting up a central panel that distributes electrical power to various circuits within a building. This involves selecting the correct board size and configuration to handle the expected load, installing circuit breakers, and ensuring proper grounding and labeling. A well-installed DB ensures efficient power distribution, enhances safety, and allows for easy circuit management.

High-Voltage Cabling

High-voltage cabling refers to the installation of cables designed to carry high electrical loads safely, typically above 1,000 volts. This includes selecting suitable cable types, such as XLPE or PVC-insulated cables, and ensuring proper installation techniques to minimize electrical losses and risks. High-voltage cabling is essential for powering large systems and equipment in high-rise buildings.

General Electrical Systems

General electrical systems encompass all the electrical infrastructure within a building, including lighting, power outlets, HVAC controls, and emergency systems. This work involves designing, installing, and maintaining these systems to ensure reliability, safety, and efficiency. A thorough understanding of electrical codes and standards is vital for creating a functional and compliant electrical environment.

Plumbing Work

Installation of Plumbing Systems

Plumbing work involves the design, installation, and maintenance of water supply and drainage systems within a building. This includes laying out and installing pipes for cold and hot water, as well as waste and vent systems. Proper installation ensures efficient water flow, minimizes leaks, and meets local plumbing codes.

Pipe Selection and Installation

Choosing the right type of pipes—such as PVC, copper, or PEX—is crucial based on the application and environmental conditions. Installation involves cutting, fitting, and joining pipes, ensuring they are secured and insulated where necessary. This work also includes installing fixtures like sinks, toilets, and showers, ensuring they are connected to the water supply and drainage systems correctly.

Drainage Systems

A critical aspect of plumbing work is the installation of drainage systems, which includes designing and installing sewer lines and drainage pipes that remove wastewater effectively. This process requires knowledge of gravity flow principles and proper slope installation to prevent clogs and backups.

Water Supply and Pressure Management

Maintaining consistent water pressure is essential for functionality. Plumbing work involves installing pressure-regulating valves, backflow preventers, and pumps to ensure that water supply systems operate effectively and safely.

Maintenance and Repair

Routine maintenance and prompt repairs are essential to prevent plumbing issues such as leaks, clogs, and pipe corrosion. This involves inspecting systems, diagnosing problems, and conducting repairs or replacements as needed to maintain optimal operation.

Compliance and Safety

All plumbing work must comply with local codes and regulations, ensuring safety and environmental protection. This includes adhering to standards for materials, installation practices, and testing procedures to verify system integrity.

Performance Evaluation:

- The probationary period will last for a duration of 3 to 6 months.
- Regular evaluations will be conducted to assess technical knowledge, problem-solving abilities, and adherence to project timelines.
- Feedback will be provided regularly to help improve skills and knowledge in Electrical, Plumbing, HVAC, Fire Fighting, and Utility Piping systems.

Training and Development:

- Mandatory training sessions on safety standards, operational protocols, and technical skills.
- Hands-on training and mentorship from senior engineers to enhance practical skills and theoretical knowledge.

Compliance and Conduct:

- Strict adherence to company policies, including punctuality, ethical conduct, and safety standards.
- Failure to meet these standards may result in an extension or termination of the probationary period.

Achievements

- Improved billing accuracy by 10% by implementing enhanced tracking systems for structural materials and piping equipment.
- Successfully planned and executed multiple large-scale projects, consistently delivering within budget and ahead of schedule.

Documentation & Reporting

- Generated and maintained comprehensive documentation of project milestones, billing records, and material tracking for structural and piping work.
- Prepared progress reports and presented financial and scheduling updates to senior management and stakeholders.

CAREER HIGHLIGHTS**Probationary Period Addendum**

In all my roles, including my current position as an Operation Head at Secured Engineers Pvt. Ltd., I have consistently demonstrated my ability to quickly adapt to new responsibilities during probationary periods. I believe that these early months in any role are critical for understanding the specific requirements and challenges of the position, and I make it a priority to exceed expectations.

- **Adjustment Period:** I have successfully navigated the learning curves associated with each new role, particularly in complex environments involving HVAC, Fire Fighting, and Utility Piping systems.
- **Proactive Learning:** During probation, I actively seek feedback and continuously improve my skills, ensuring that I am fully equipped to meet the demands of the job.
- **Performance Benchmarks:** I am accustomed to meeting stringent performance benchmarks during probation, ensuring my long-term fit within the team and alignment with organizational goals.
- **Mentorship and Guidance:** I also value the importance of mentoring new team members during their probationary periods, sharing my insights and helping them integrate effectively into the team.

Present Status:

CLINET: Luminous, Yasharn, Park INN, BDPL, Fast-Way Daily Post ETC

- Working as an **Operation Head** for **Secured Engineers Pvt. Ltd** (From May 2024 TO Up To Date).
- I am presently looking MEP (Mechanical, Electrical Plumbing Firefighting Solar) UG & AG piping job Planning and billing of Integrated Utilities & Offsite Area Piping, Co-ordination with client & PMC for Fabrication & Erection/Lowering, Co-ordination with client and PMC for Inspection, Monitoring of Daily/Weekly & month look ahead job planning & Execute.

Projects and constructions:

Installation and Commissioning of MEP Systems

- Managed the installation and commissioning of various Plumbing, HVAC, and electrical systems, conducting rigorous tests and inspections to ensure operational effectiveness and compliance with specifications.

Engineering Review

- Reviewed engineering drawings, technical specifications, and cost estimates for the installation and commissioning of MEP equipment. Analysed contractor change order proposals and submittals for feasibility and accuracy.

Isometric Studies

- Performed detailed isometric studies of piping systems, ensuring accurate representation for fabrication and installation processes. Implemented findings to enhance design accuracy and efficiency.

Restructuring Isometric Drawings

- Efficiently restructured isometric drawings for fabrication, improving clarity and ensuring alignment with project requirements and standards.

Collaboration and Coordination

- Collaborated with multidisciplinary teams to integrate mechanical, electrical, and plumbing systems seamlessly into overall project designs, ensuring successful project execution.

Site Management

- **Project Execution:** Led on-site construction activities, ensuring projects were completed within the set timelines, budgets, and quality standards.
- **Resource Coordination:** Efficiently coordinated the availability and allocation of materials, equipment, and labor to optimize resource utilization and reduce downtime.
- **Quality Assurance:** Implemented strict quality control measures to ensure all work met regulatory standards and client specifications, including regular inspections and adherence to safety protocols.
- **Site Supervision:** Supervised day-to-day operations on the site, monitoring progress against project plans and taking corrective actions as necessary to keep the project on track.
- **Safety Management:** Enforced safety policies and procedures to maintain a safe working environment, conducting regular safety meetings and training sessions to mitigate risks.
- **Stakeholder Communication:** Acted as a primary point of contact between clients, contractors, and other stakeholders, ensuring clear and effective communication throughout the project lifecycle.
- **Documentation and Reporting:** Maintained comprehensive records of site activities, including daily progress reports, safety reports, and project documentation for future reference and compliance.
- **Problem Solving:** Quickly identified and resolved site issues or delays, employing critical thinking and problem-solving skills to minimize impacts on project timelines and costs.

Man Power Management

- **Workforce Planning:** Developed and implemented manpower plans to ensure optimal staffing levels, aligning workforce capabilities with project requirements and timelines.
- **Team Leadership:** Led and managed diverse teams, including engineers, technicians, and contractors, to achieve project objectives efficiently and safely.
- **Training and Development:** Organized training programs to enhance skill sets of the workforce, ensuring that team members are proficient in the latest industry standards and technologies.
- **Performance Monitoring:** Conducted regular performance reviews, provided constructive feedback, and implemented corrective actions to improve productivity and job satisfaction.

Before Past Experiences:

CLINET:

1) Worked as a Supervisor For Hajee A.P Baba & Co. From June 2015 TO May 2016.

- I have done piping job fabrication, Erection & commissioning.
- Coordination with client & PMC for internal punch making & killing of test package obtaining mechanical clearance.
- Coordination with client and PMC.
- Co-ordination for heavy equipment Piping works.
- Daily job planning & monitoring.
- Maintain daily record, Document & work status of relevant activity as per drawing.
- To Co-ordination with Client, Sub-contractor & Engineering Department regarding technical problem.
- Study of G.A drawings & P&ID, marking plan and Fabrication interpretation with respect to job specification and codes.
- Familiar with international standard & code (ASME B31.3 & API.
- Follow the piping supports standard and support sketch.

2) Worked as Site In charge For Shah Industrial Products from June 2016 To May 2018.

Projects:- Shailby,Indiabulls,Alkem,Jolly containers,Joyo Plast, Propack Etc.

- Completed The Fire-Fighting Work In Shalby Hospital JAIPUR Mohali
- Completed The India bulls Project In Delhi,Alkyl Amines,Alem Laboratory
- I have done piping job fabrication, Erection.
- Coordination with client.
- Co-ordination for heavy equipment Piping works.
- Daily job planning & monitoring.
- Maintain daily record, Document & work status of relevant activity as per drawing.
- To Co-ordination with Client, Sub-contractor & Engineering Department regarding technical problem.
- Study of GAD drawings & P&ID, marking plan and fabrication interpretation with respect to job specification and codes..
- Familiar with international standard & code (ASME B31.3 & API.
- Follow the piping supports standard and support sketch
- H2 Boiler Installation From Aditya Birla Group From Vilayat TO Ganjam
- I have done piping job fabrication, Erection.
- Coordination with client.
- Daily job planning & monitoring

3) Worked As A Project Coordinator For Sure Safety (India) Limited.

From June 18 TO 31st May 2020.

Projects- Ineos,UPL,Detox,BEIL,Deccan Etc.

- Handling Of Projects.
- Planning Of Work for Complete the projects On Time.
- Submit The Bar & Gantt Chart Of Work/Projects.
- Coordination with client.
- Daily job planning & monitoring.
- Prepare The Hand over Documents.

4) Worked As A Project Manager For MANSH ENGINEERS PVT LTD. From May 20 TO May 2022.

Projects- Meghamani GFL Alkyl Amines.

- Novec Co2Floding Suppression System
- Planning Of Work for Complete the projects On Time.
- Submit The Bar & Gantt Chart Of Work/Projects.
- Coordination with client.
- Daily job planning & monitoring.
- Prepare The Hand over Documents.
- Handling Of Projects.
- Planning Of Work for Complete the projects On Time.
- Submit The Bar & Gantt Chart Of Work/Projects.
- Coordination with client.
- Daily job planning & monitoring.
- Prepare The Hand over Documents.

5) Worked As A Project Manager For Ramana Safety & Systems India Limited. From March 22 TO May 2024.

Projects- Meghamani GFL Alkyl Amines .

- Done The EPC Mode Project In UP
- LUCKNOW,Auraiya,Kanpur,Kushinagar
- Planning Of Work for Complete the projects On Time.
- Coordination with client.
- Daily job planning & monitoring.
- Prepare The Hand over Documents.
- Handling Of Projects.
- Planning Of Work for Complete the projects On Time.
- Submit The Bar & Gantt Chart Of Work/Projects

ACADEMIA

Qualification :

- 10TH FROM BIHAR BOARD.
- 12TH FROM U.P BOARD.
- DIPLOMA IN MECHANICAL ENGINEERING
- AUTO CADE
- B-TECH.

Computer Skills:

MS Office- Word,
Excel, Auto Cad
Basic Knowledge of SAP, OrizerPower Point.

PERSONAL DETAILS

Date of Birth	: 07 January 1996
Languages Known	: English, Hind
Address	: Vill- Koharwalia; P.o- Belauri P.S- Guthani Siwan (Bihar)
Pin Code	: 841239
State/Country	: Bihar/India
Mobile No.	: +91-9781572752

PASSPORT DETAILS

Passport No.	: P8573055
Date of Issue	: 11/04/2017
Valid Up To	: 10/04/2027
Place of Issue	: Patna (Bihar)

DECLARATION

I hereby declare that all the above information's are true to the best of my knowledge and believe.

PLACE: Delhi
DATE: 09/10/2024

Ajay Nath Tiwari



HAJEE A.P. BAVA & CO. CONSTRUCTIONS PVT. LTD.

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E-mail : hapbco@datainfosys.net, hapbco_upr@dataone.in Website : www.hpbco.org

Ref. No.

Date:-

TO WHOM-SO-EVER IT MAY CONCERN

This is certify that **MR. Ajay Nath Tiwari**. Son of **Mr. Prabhunath Tiwari** Worked as **A Supervisor** In our company **From JUNE-2015 To MAY-2016** with our entire satisfaction. Dedicated employee with a nature and character is well. We have no objection to allow him in any batter position and have no liabilities in our company.

For HAJEE AP. BAVA CO.


C.K. Johnson
Site Incharge

Regd. Office : 76/D, Kalyan Housing Society, 8th Main Road, R.P.C. Layout, Vijaya Nagar, Bangalore 500040
Tel +91-80-23302597

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Email : shahindpro@gmail.com / response@shahfiresafety.in

Website : www.shahfiresafety.in

Ref. No.

Date:-

TO WHOM-SO-EVER IT MAY CONCERN

This is certify that **MR. Ajay Nath Tiwari** Son of **Mr. Prabhunath Tiwari**
Worked as **Side Incharge** In our company **From July -2016 To May -2018**
with our entire satisfaction. Dedicated employee with a nature and character is
well. We have no objection to allow him in any batter position and have no
liabilities in our company.

Fore Shah Industrial Product

Niraj Shah
M.D. Partner

We Serve to Save From..... **Fire**

Date: 31/05/2020

Experience Certificate

This is to certify that **Mr. Ajay Nath Tiwari**, associated with our organization from 17/06/2018 to 31/05/2020 as Projects Coordinator

During the time of his tenure we found him extremely resourceful in all the technologies that he is competent.

We found him self-starter, duty bound, highly committed team player with strong conceptual knowledge.

We wish him all success in his future endeavors.

For Sure Safety (India) Ltd.



megha Thakkar
Manager HR

SURE SAFETY (INDIA) LTD.

Chhani, Vadodara-391 740 Gujarat INDIA

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Email : info@suresafety.com | www.suresafety.com

REGISTERED UNDER MSME ACT, 2006. / REG. NO DIC/VAD/EM/PART-2/10979 DT. 01.04.2013
CIN : U31903GJ2013PLC073194

SAVIOUR
Performing PPE

A portrait of a man with dark hair and a mustache, wearing a dark shirt with a light-colored pattern. He is looking directly at the camera against a plain, light-colored background.

P

IND

P8573055

TIWARI

AJAY NATH

M

07/01/1996

SIWAN, BIHAR

PATNA

11/04/2017

10/04/2027

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PRABHUNATH TIWARI

USHA DEVI

VILL-KOHARWALIA ,PO-BELAURI

PS-GUTHANI, SIWAN

PIN: 841239, BIHAR, INDIA

पुराने पासपोर्ट का नं. और इसके जारी होने की तिथि एवं स्थान / Old Passport No. with Date and Place of Issue

PA1060806308817



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