

BHAVIK PATEL

A/43 Amrapali Society, Nr. Jalaram Temple, Manjalpur, Vadodara – 390011

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PROFESSIONAL SUMMARY

Project Execution Manager with over **10+ years** of experience in **Mechanical Engineering** within the **water and wastewater treatment industry** (WTP, STP, ETP). Skilled in **project planning, scheduling, execution, and site coordination**, ensuring timely and cost-effective completion. Expertise in **erection, commissioning, procurement, vendor management, and client communication**, with proficiency in **MS Project, ERP systems, and ISO compliance**. Strong leadership, problem-solving, and negotiation skills, with a track record of driving **efficiency, quality, and customer satisfaction**. Multilingual (**English, Hindi, Gujarati**) with excellent interpersonal abilities.

CORE COMPETENCIES

Category	Skills
Project Management	Planning & Scheduling • Budget Control (Rs. 1Cr+) • Risk Mitigation • MS Project/ERP
Technical Expertise	STP/WTP/ETP • Pipeline Installation • Erection and Commissioning • Pumps and valves
Client Coordination	Site Meetings • Vendor Negotiation • Client Approvals

PROFESSIONAL EXPERIENCE

Manager – Project Execution

SPML Infra Ltd, Delhi | July 2025 – present

- Identified critical balance works, including pump erection, EOT crane installation, testing, commissioning, and final handover of two pump houses;
- Developed and initiated a structured execution plan to streamline remaining activities, improve site coordination, and accelerate project closure while ensuring quality and compliance with client specifications.

Sr. Mechanical Engineer (Section In-charge)

Megha Engineering and Infrastructure Ltd, Hyderabad | June 2023 – June 2025

- Led planning & execution** of irrigation water supply project, ensuring **timely delivery** and **zero safety incidents**.
- Coordinated with 15+ contractors/clients** for seamless workflow, resolving bottlenecks via **daily site inspections**.
- Reduced project delays by 15%** through proactive resource allocation and **Project scheduling**.
- Prepared progress reports** and reconciled bills, ensuring 100% alignment with budgets.
- Conducted client meetings** to review milestones and address concerns, achieving **98%**

satisfaction.

- Ensure the availability of **skilled workers, engineers, and contractors** at the right time.
- **Trained 8 GET (Engineers)** in pipeline laying, welding, and structural erection and on safety protocols, enhancing team efficiency.

Partner and Proprietor

Metalx Global & Yaksh Enterprise, Vadodara / April 2021 – May 2023

- **Executed 100 MLD WTP & 24 KM pipeline project (Mechanical Works)** for VMC, including NDT testing and structural fabrication.
- **Prepared technical documentation** and secured client approvals for key project deliverables. **Ensure proper documentation** of project progress, material usage, and sub-contractor work records.
- **Develop budget estimates** for various water supply projects and ensure cost control throughout the execution.
- **Coordinated with 20+ vendors** for material procurement, ensuring quality compliance.

PMO Mechanical Engineer

Gharpure Engineering and Construction Pvt Ltd, Pune / May 2019 – March 2021

- **Reconciled BOQ/BOM** and client bills, ensuring 100% accuracy in contractor certifications.
- **Conducted daily output analysis** for workmen and arranged extended work hours to meet deadlines.
- **Led project review meetings** with directors and supervisors, providing updates on milestones and addressing roadblocks.
- **Coordinated with vendors** for timely material availability, ensuring smooth project execution.
- **Monitored project budgets** and ensured adherence to financial control parameters.
- **Prepared weekly progress reports** and highlighted areas requiring immediate attention.

Mechanical Engineer

Rashmin Coating, Vadodara / August 2017 – April 2019

- **Managed and supervised shop-floor operations** for electroplating plants, ensuring ISO compliance and quality control.
- **Maintained detailed records** of daily workmen output and performance analysis, fostering continuous improvement.
- **Managed equipment maintenance**, ensuring smooth operation of welding, grinding, and drilling machines.
- **Conducted safety audits** and implemented corrective actions to enhance workplace safety.
- **Prepared project schedules** and ensured timely completion of projects.

Assistant Mechanical Engineer

Cheticamp Marine and Boat Yard, Canada | October 2016 – May 2017

- **Assisted in planning and scheduling** mechanical operations for marine vessel construction.
- **Coordinated with cross-functional teams** to ensure timely delivery of high-quality marine solutions.
- **Assisted in procurement activities**, ensuring timely delivery of materials and equipment.

Research Assistant (Advanced Control and Mechatronics)

Dalhousie University, Canada | September 2014 – October 2016

- **Conducted research** on advanced control systems and mechatronics, contributing to innovative engineering solutions.
- **Developed prototypes** and analyzed data for system enhancements.
- **Published findings** in academic journals and presented at international conferences.
- **Collaborated with cross-functional teams** to deliver high-quality research outcomes.
- **Prepared technical reports** and documentation for research projects.

Mechanical Engineer – Intern

New S B Engineering, Vadodara | June 2012 – June 2013

- **Assisted in design, drafting, and project planning** for industrial clients.
- **Contributed to successful project deliveries** by providing technical support to senior engineers.
- **Prepared project schedules** and ensured timely completion of deliverables.
- **Maintained detailed records** of project activities and prepared progress reports.

EDUCATION

Master of Applied Science (Mechanical)	Dalhousie University, Canada	2013 – 2016
Bachelor of Engineering (Mechanical)	Parul Institute of Engineering and Technology, Vadodara	2008 – 2012

PUBLICATIONS

Patel, B., Pan, Y. J., & Ahmad, U. (2017, December). Adaptive backstepping control approach for the trajectory tracking of mobile manipulators. In *2017 IEEE International Conference on Robotics and Biomimetics (ROBIO)* (pp. 1769-1774). IEEE

- Developed innovative control systems, showcasing analytical problem-solving aligned with project management.

Projects Executed – EPC & Infrastructure

Water Supply & Treatment Plants

◆ Sindhrot Water Supply Source Augmentation – WTP & 24 KM Pipeline (₹195 Cr.)

◆ **Client:** Vadodara Municipal Corporation | **EPC Contractor:** Pooja Construction & Rajkamal Builder (JV) | **Period:** Mar 2021 – May 2022

◆ Ajwa-Nimeta Gravity Pipeline & 45 MLD WTP Augmentation (₹69 Cr.)

◆ **Client:** Vadodara Municipal Corporation | **EPC Contractor:** Velji Ratna Sorathia Infra Pvt. Ltd. | **Period:** Apr 2021 – Mar 2022

- Led **BOQ/BOM preparation, site execution, and equipment installation.**
- Monitored site activities, including fabrication, structural work, and equipment erection, piping/pump installation, valve fitting, and alignment in WTP project.
- Ensured proper **jointing, welding, and NDT testing of pipelines** in water treatment facilities.

Pipeline, Pump House & Irrigation Projects

◆ Dholidhaja to Morsal Pipeline Project (Phase 3, Link 4B, Package – 7) (₹709 Cr.)

◆ **Client:** NWRWS & KD | **EPC Contractor:** SPML INFRA LTD. | **Period:** July 2025 – Present

- Managing **Electro-Mechanical Installations** in pump houses.
- Responsible for **overall project progress, contractor billing, and compliance monitoring.**
- Coordinating with **consultants & government authorities** for regulatory clearances.

◆ Tappar Dam to Darasdi Dam & Jamara Dam Pipeline Project (₹2050 Cr.)

◆ **Client:** NWRWS & KD | **EPC Contractor:** Megha Engineering & Infrastructure Ltd. | **Period:** June 2023 – June 2025

- Liaised with **clients, consultants, and regulatory bodies** for project **approvals and inspections.**
- Led **pipeline-laying operations**, Right of Use (ROU) clearance, and contractor coordination.
- Managed **electromechanical installations** in pump houses and high contour storage.
- Handled **contractor billing, progress tracking, and compliance monitoring.**

◆ Chhotaudepur Bulk Pipeline Project – Package 2 (₹78 Cr.)

◆ **Client:** GWSSB Chhotaudepur | **EPC Contractor:** The Spun Pipe & Construction Pvt. Ltd. | **Period:** March 2021 – Feb 2022

◆ Ankol to Padra Bulk Pipeline Water Supply Project (₹72 Cr.)

◆ **Client:** GWSSB Karjan | **EPC Contractor:** Krishna Corp. India Pvt. Ltd. | **Period:** Jan 2022 – May 2023

- Ensured proper **jointing, welding, and NDT testing of pipelines.**
 - Monitored **pipeline installation, contractor billings, and quality assurance.**
 - Ensured timely completion despite **land acquisition challenges.**
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Sewage Treatment Plants (STP) & AMRUT Scheme

155 MLD to 255 MLD STP Augmentation – Singanpore (₹319 Cr.)

Client: Surat Municipal Corporation | **EPC Contractor:** Gharpure Engineering & Construction Pvt. Ltd. | **Period:** Jun 2019 – Jan 2021

15 MLD to 37.5 MLD STP Augmentation – Asarma (₹63 Cr.)

Client: Surat Municipal Corporation | **EPC Contractor:** Gharpure Engineering & Construction Pvt. Ltd. | **Period:** Aug 2019 – Mar 2021

- Managed **aeration, sludge treatment, SCADA integration, equipment procurement, erection and commissioning** of the plant.
- Supervised **sludge handling, process automation, and electromechanical installation.**
- **Liaised with clients, consultants, and regulatory bodies** for project approvals and inspections.