

# 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.

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## CORE COMPETENCIES

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

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## 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.

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## **EDUCATION**

### **Master of Applied Science (Mechanical)**

Dalhousie University, Canada 2013 – 2016

### **Bachelor of Engineering (Mechanical)**

Parul Institute of Engineering and Technology, Vadodara 2008 – 2012

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## **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.
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## 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.

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

◆ Client: GWSSB Chhotauddepur | 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.