

SACHIN K

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PROFFESIONAL SUMMARY

Detail-oriented and motivated Production Engineer with a B.Tech in Chemical Engineering from Puducherry Technological University. Currently serving as a Trainee at Hindustan Petroleum Corporation Limited, with robust experience in P&ID creation, process optimization, and project engineering. Proficient in conducting feasibility studies and technical analyses to enhance operational efficiencies. Excellent problem-solving skills with a commitment to safety and quality standards.

EXPERIENCE

Trainee Engineer - Hindustan Petroleum Corporation Limited

01 April 2024 – 31 Mar 2025

- Familiarization of the system and understanding on safety rules and Basic knowledge on **PFD, P&ID, Operating manual, Standard operating procedure**.
- Knowledge on Rotating Equipment:** Service of rotating equipment's, Pressurization of pumps and depressurization of pumps and compressors.
- Physical identification of various **pipelines, location of control valves, and utility system**.
- Shut down and start up** procedure of plant and their interlocks, knowledge about the integrated management system.
- Collaborated on the basic engineering design package for a **Solvent Deasphalting Unit**, contributing to **process flow** and **safety enhancements**.
- Developed **P&IDs** and assisted in the modification of **engineering documents** based on technical reviews and markups.
- Conducted **simulations** and prepared **heat and mass balance sheets** to optimize treatment processes.
- Supported **project management** by forecasting deliverables and assessing impacts on **project schedules**.
- I contribute to revise the operating manual and Standard operating procedure (SOP).

EDUCATION

Program	Institute	Year	CGPA/Percentage
B.Tech Chemical Engineering	Puducherry Technological University	2023	8.36
HSC	Jothi Vallalar Hr. Sec. School	2019	79%
SSLC	Amala Hr. Sec. School	2017	86.8%

PROJECTS

1. Solvent Deasphalting Unit – Hindustan Petroleum Corporation Limited

Objective: To design and optimize the Solvent Deasphalting Unit for improved operational efficiency.
Role: Engaged in the preparation of **process flow diagrams (PFDs)** and drafting **Piping & Instrumentation Diagrams (P&IDs)** in consultation with senior engineers.
Skills Utilized: Proficiency in **technical documentation, process design, and engineering compliance**.
Impact: Enhanced understanding of **operational requirements**, leading to reliable **production timelines**.

2. Comprehensive Review on Green Hydrogen – Puducherry Technological University

Objective: Conduct an in-depth analysis of **green hydrogen applications and technologies**.

Role: Analyzed **existing literature** and conducted **feasibility studies**.

Skills Utilized: **Research methodologies** and **analytical skills** to propose actionable insights.

Impact: Strengthened awareness of **sustainable energy solutions** and **innovations** in the chemical engineering sector.

SKILLS

- **Process Design & Documentation:** Expertise in developing P&IDs and PFDs in alignment with process and safety requirements.
 - **Technical Analysis:** Skilled in performing feasibility studies, technical assessments, and troubleshooting treatment systems.
 - **Engineering Proficiency:** Familiar with hydraulic calculations, equipment sizing, and mass balance simulations.
 - **Project Support:** Ability to assist project management teams in executing detailed engineering and FEED jobs.
 - **Safety and Compliance:** Knowledgeable in preparing SAFE charts and conducting emergency preparedness protocols.
 - **Document Preparation:** Adept at creating engineering documents, reports, and operating manuals to support project objectives.
 - **Market Analysis:** Experienced in submission of techno-commercial proposals, conducting market surveys, and identifying business opportunities.
 - **Collaboration & Communication:** Strong team player with the ability to guide and support on-site teams effectively.
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CERTIFICATIONS:

- Project Trainee (Internship) - Solara Active Pharma Science Ltd.
 - Experience Certificate: Received from a Public Sector Undertaking (PSU) company affirming engineering contributions and project involvement.
 - Workshop regarding manufacturing practice, 2020.
 - Seminar in recycling of plastics, 2023.
 - NPTEL Certification in Wildlife Ecology, 2021.
 - NPTEL Certification Introduction to Cognitive Psychology, 2022.
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LANGUAGES:

- English
- Tamil