

VANAPARTHI.V.S.S. DWITISH MANIKANTA

M.Tech – Chemical Engineer – IIT, Dhanbad

22MT0430

@ Dwitishvanaparthi17@gmail.com, 22mt0430@iitism.ac.in

☎ +91-7793917795

LinkedIn: [Dwitish_V](#)

DOB:17/06/1999

EXPERIENCE

Hindustan Petroleum Corporation Ltd. (R&D, Bengaluru)

PROJECT ASSOCIATE (Mar 2021 – July 2022)

- Created and implemented established techniques and catalysts for maximizing propylene in the [HP]2 Unit through sample preparation and experimentation.
- Controlled industrial SCADA processes using HONEYWELL EXPERION HS
- Handled operations and testing in Advanced Cracking Evaluation (ACE), LT-SIMDIS, and Attrition units.

Deccan Fine Chemicals (India) Pvt Ltd. (Tuni)

DCS ENGINEER (Mar 2020 – Feb 2021)

- Practical knowledge of SIEMENS PCS-7 software.
- Hands in identifying and resolving process and safety interlock problems.
- Prepared standard operating procedures and helped with testing, maintaining, and changing current systems.

PROJECTS

Catalytic conversion of CO₂ to Substitute Natural Gas (SNG)

- Prepared Ni and Ni-Fe catalysts. and characterized with H₂-TPR, XRD, H₂-TPD, and CO₂ TPD techniques.
- The reactions are carried out identify the range of CO₂ conversion and CH₄ formation to achieve NET ZERO.
- The bimetallic catalyst demonstrated nearly 2 times better conversion and 1.5 times higher yield.

Overview and development of a mathematical model for calculation of GCV of LNG

- The GCV of LNG (Liquefied Natural Gas) was calculated mathematically using MATLAB software, based on C1–C4 alkanes.
- The experimental results demonstrated a difference of ±3.9 magnitude in the modelled values.

Muzic wireless telemetry system

- The Music wireless telemetry can assess downhole well test data acquisition.

INTERSHIP

Coromandel international Limited (May 2019 – June 2019)

- A curriculum for interns in the production department that involves researching and evaluating sulfuric acid plants.

Singh Hindustan Marine Limited (May 2016 – June 2016)

- An internship program that examines, studies, and evaluated 3 different fire extinguisher systems.

EDUCATION

Indian Institute of Technology Dhanbad (IIT (ISM), Dhanbad) — Master of Technology in Chemical Engineering

AUGUST 2022 - MAY 2024

CGPA – 9.15*/10

Gayatri Vidya Parishad College of Engineering, Visakhapatnam — Bachelor of Technology in Chemical Engineering

JULY 2017 - JULY 2020

CGPA – 8.64/10

Aditya College of Engineering, Surampalem — Diploma in Petroleum Technology

JUNE 2014 - MARCH 2017

PERCENTAGE – 95.4%

Ravindra Bharathi School, Pithapuram — 10th standard

JUNE 2013 - MARCH 2014

CGPA – 9.5/10

SKILLS

- MICROSOFT OFFICE
- MATLAB
- COMSOL

ACHIEVEMENTS

- The SBTET awarded the 2017 PRATIBHA AWARD (Gold Medal) for excellence in diploma petroleum technology.
- Presented an innovative research paper at the TEERSD-2023 International Conference in Bilaspur, which won the Best Paper Award, driving significant advancements in sustainable energy practices.
- Demonstrated proficiency in MATLAB programming by earning a MATLAB ON RAMP certificate from MATHWORKS.
- Successfully presented research findings at the SCHEMCON-IICHE-organized paper presentation session at NIT Rourkela in 2017.
- Secured top honors in national and international symposiums VEDA, SPE-INDHAN, CHEMISPHERE, and CHEMFLARE Fests, showcasing expertise in paper presentations, poster presentations, and quiz competitions; consistently demonstrating subject matter mastery and earning recognition for outstanding contributions.
- Took part in workshops on PRO II and HP/HT regimes in oil and gas fields.

POSITIONS OF RESPONSIBILITY

- National Service Scheme (NSS) President.
- Volunteered in an International conferences of NOET 2022 at IIT ISM Dhanbad, RAMSA 2017 at the GVPCE, different technical fests across institutions
- Coordinator of a 7 days special camp at Gollathimmapuram village, Visakhapatnam.

EXTRACURRICULARS

- Event Organizer at national and international levels.
- Travelling.
- Debates & Elocutions.