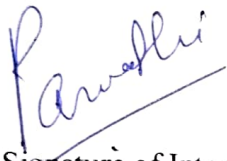


CERTIFICATE

This is to certify that the project entitled "Manufacturing of Aluminium base PCB" submitted by **Shubham Patel** in partial fulfilment for the requirements for the award of Bachelor of Engineering in Chemical Engineering is an authentic work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in the project report has not been submitted to any other University/Institute for the award of any Degree.

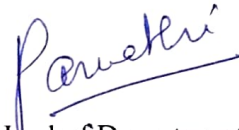


Signature of Internal Guide



Dr. Sayantani Basu

(Professor)



Head of Department

Dr. Sayantani Basu

(Chemical & Environment Engineering)



External Examiner

Dean and Director



Dr. M.B. Dholakia

SWARNIM INSTITUTE OF
TECHNOLOGY

Swarnim Institute of Technology
Swarnim Startup and Innovation University

CERTIFICATE

This is to certify that Project-I -Subject code 203103408 of 7th Semester entitled
"Studies on Electrochemical Oxidation Treatment of Dye Effluent using Novel Catalytic Electrodes" has been successfully completed by

URVA PATEL (2025002002)

under my guidance in fulfillment of the Bachelor of Technology (B. TECH) in
Chemical Engineering of Swarnim University in Academic Year 2022-2023

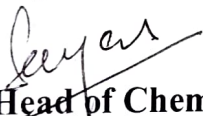


Project Guide:

Dr. Parwathi Pillai

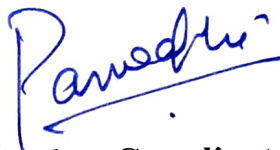
Professor

Dept. of Chemical Engineering



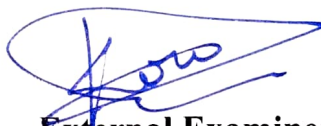
Head of Chemical Department:

Dr. Sayantani Basu



Project Coordinator:

Dr. Parwathi Pillai



External Examiner:

SWARNIM INSTITUTE OF
TECHNOLOGY

CERTIFICATE

This is to certify that Project-I -Subject code 203103408 of 7th Semester entitled
“OPTIMIZATION STUDIES OF CHEMICAL PROCESSES” has been successfully completed by:

MIT SHAH (2025002003)

under my guidance in fulfillment of the Bachelor of Technology (B. TECH) in
Chemical Engineering of Parul University in Academic Year 2022-2023.



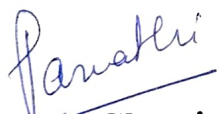
Project Guide

Dr. Parwathi Pillai



Project Coordinator

Dr. Parwathi Pillai



Head of Chemical Department,

Dr. Sayantani Basu



External Examiner

SWARNIM INSTITUTE OF
TECHNOLOGY

ACKNOWLEDGEMENT



CERTIFICATE

This is to certify that Project of 8th Semester entitled “Soxhlet Extraction”
has been successfully completed by:

✚ Karankumar Gohil
(2025002005)

under my guidance in partial fulfillment of the Bachelor of Technology (B.TECH)
in Chemical Engineering of Swarnim University in Academic Year 2021-2023.

Project Guide :

Asst. Prof. Dr.Sayantani Basu

Head of Department:

Dr.Sayantani Basu

External Examiner

SWARNIM INSTITUTE OF
TECHNOLOGY



SWARNIM STARTUP AND INNOVATION UNIVERSITY

CHEMICAL ENGINEERING DEPARTMENT

CERTIFICATE

THIS IS TO CLARIFY THAT

**MR. PATEL JAIMINKUMAR J. ENROLLMENT NUMBER 2025002006 BRANCH BACHLOR
OF TECHNOLOGY IN CHEMICAL ENGINEERING SEMESTER 8th HAS SATISFACTORY
COMPLETED THE PROJECT OF Slurry Acid (LABSA) IN THE YEAR OF 2021 – 2023.**

DATE OF SUBMISSION:

SIGNATURE OF H.O.D:

SIGNATURE OF GUIDE:

External Examiner:

SWARNIM
TECHNOLOGY