Essential oil from mango and guava leaf by enfleurage extraction method with ethanol wash

A Major Project Report submitted

To

Guru Ghasidas Vishwavidyalaya



In Partial Fulfilment of the Requirement for Award of Degree of

Bachelor of Technology in Chemical Engineering

By Shashwat Tiwari (21021146)

Under the Guidance of
Dr. Saurabh Meshram
Associate Professor
Department of Chemical Engineering

May 2025

DEPARTMENT OF CHEMICAL ENGINEERING
SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

DEPARTMENT OF CHEMICAL ENGINEERING

SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY GURU GHASID VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University established by the Central Universities Act No. 25 of 2009)

CERTIFICATE BY THE SUPERVISOR

Certified that the Major Project Report entitled "Essential oil from mango and guava leaf by enfleurage extraction method with ethanol wash" submitted by Mr. Shashwat Tiwari of B.Tech 8th Semester, in partial fulfillment of the requirements for the award of degree in Bachelor of Technology (B. Tech) in Chemical Engineering, is according to the students own investigation carried out by them in the Department of Chemical Engineering, School of Studies in Engineering & Technology, GGV, during the session 2024-25.

(Signature of Supervisor)

(Signature of Examiner)

Dr. Saurabh Meshram

Department of Chemical Engineering

(Signature of HOD)

Prof. Amit Jain

Department of Chemical Engineering

TABLE OF CONTENTS

Declaration	ii
Certificate By The Supervisor	iii
Acknowledgement	iv
Abstract	v
List of Figures	viii
1. Introduction	1-4
2. Literature Review	5-6
3. Materials and Methods	7-9
4. Case Studies 4.1 Related Aspects 4.2 Results	10-16

5. Conclusions	17-19
6. Future Aspects	20-22
7. References	23