

A
PROJECT REPORT
ON
"MICROENCAPSULATION TECHNIQUES
AND ITS APPLICATION"

Submitted for

Partial fulfillment of the Requirement for the Award of

Bachelor of Pharmacy

2021-2022



SUPERVISED BY:

Dr. SUNIL K. JAIN
(Asstt. Professor)

SUBMITTED BY :

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SLT INSTITUTE OF PHARMACEUTICAL SCIENCES,

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(A Central University Established By the Central University Act-2009 no-25 of 2009)

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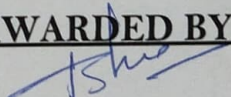
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FORWARDING CERTIFICATE

This is to certify that **Subhajit Garai S/O Mr. Ramchandra Garai** is a student of B. Pharmacy Final year (8th sem.), in SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur has completed his Project Work "**MICROENCAPSULATION TECHNIQUES AND ITS APPLICATION**" under guidance of **Dr. Sunil K. Jain**, Assistant Professor during academic session 2021-2022.

I recommended the Project Report to be forwarded to the respective examiner for evaluation purpose.

FORWARDED BY


Dr. Bharti Ahirwar
Head of Department

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I hereby forward this project.

FORWARDED BY

Dr. Sunil K. Jain
(Assistant professor)

Subhajt Garai
28/04/2022

ACKNOWLEDGEMENT

Firstly I want to pay my gratitude to my friends who believe me lot during my project work, than thank **"THE GOD"** by whose graces I am here to cherish my goal & giving me wonderful opportunity to serve the people in need in my coming year.

I am highly grateful to **Dr. Bharti Ahirwar**(H.O.D), SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) for his kind permission to carry out the present study.

I would to take this opportunity to voice and record my gratefulness and thanks to my guide **Dr. Sunil K. Jain**. Under whose guidance this project has been brought to completion.

Date:- 25/4/2022

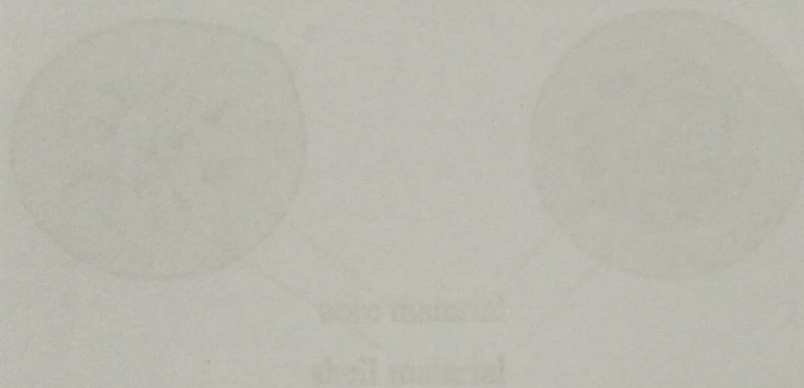
SUBHAJIT GARAI
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Subhajit Garai

Date → 25.4.22

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• Particle Size- 50-500 micron

• Phases- Microcapsules have two phases. They are-

Core material- It may be solid, liquid or gas. In case of liquid it may be dissolved or dispersed. Core material include API or Active Pharmaceutical ingredient, additives and stabilizer.

Coating material- These are inert in nature. These are used to coat the core material with desired thickness. These may include polymers, plasticizer, coloring agent.