

BIODEGRADABLE PLASTIC PACKAGING

A Mini Project Report

In Partial Fulfilment of the Requirement for Award of Degree of
Bachelor of Technology of the 2nd Year in Chemical Engineering

Submitted By

Snehil gupta (23021131)

Gautami sahu (23021111)

Tanu ku. Padda (23021135)

Under the Guidance of

Dr. Sandeep Dharamadhikari

Professor/Associate Professor/Assistant Professor



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

May 2025

CERTIFICATE

Certified that the Major Project Report entitled "*Biodegradable plastic packaging*" submitted by snehil gupta ,Gautami sahu , Tanu ku. Padda of B. Tech. 4th 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 their own investigation carried out by them in the Department of Chemical Engineering, School of Studies of Engineering & Technology, GGV, during the session 2024-25.

Prof. Amit Jain

HoD

Department of Chemical Engineering
SoS of Engineering & Technology, GGV

Dr. Sandeep dharamadhikari

Supervisor

Department of Chemical Engineering
SoS of Engineering & Technology, GGV

16/10/25

TABLE OF CONTENT:

1	Introduction	1
2	Literature review	3
	2.1 Recent trends in biodegradable plastic	
	2.2 biodegradable packaging in food industry	
	2.3biodegradable packaging on orange peel	
	2.4 cassava starch	
	2.5 sustainable biodegradable packaging	
3	Material and Methodology	10
	3.1 Biopolymer	
	3.2Agro waste filler and fibre	
	3.3plasticizers	
	3.4 Additives	
	3.5 solvent	
	3.6 methodology	
4	Result and discussions	18
	4.1 Trends	
	4.2Benefits	
	4.3 Practical	
5	Conclusions	22
6	Reference	23