



SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.
Affiliated to the Tamilnadu Dr. M.G.R. Medical University,
and The Directorate of Medical Education, Chennai.

Date : 14.04.2022

To

Mr . Abdul Lathiff,
The Managing Director ,
Arbor pharmaceuticals ,
Trichy.

Dear Sir,

Sub: Request financial support and guidance for R&D work in Funded Project-Reg

This letter is to bring to your kind notice that we (SS Institute of pharmacy , Salem) are involving our staffs and students in the Research-oriented activities. In this regard, we request you to grant the permission to do the consultancy related project in the title "Biodegradable spoon with digestive benefits: A papain – Infused innovation " associated with your organization. So that, it will enrich our knowledge and develop innovative ideas of social relevance.

Investigator: Mr .T. Sampath kumar , AP / SSIP

Thanking You ,



Principal
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SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).
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To

Mr .T. Sampath kumar ,
Assistant Professor ,
SS Institute of pharmacy ,
Sankari. Salem .


Dear sir ,

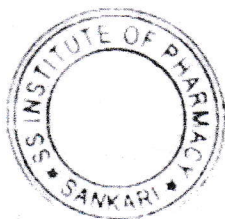
Subject : Acceptance and provision of financial assistants for funded project – Reg.


We are happy to intimate that the proposal submitted on project work titled '*Biodegradable spoon with digestive benefits : A papain – Infused innovation ' has been approved by our organization for possible funding of Rs. 1,03,000 / -(one lakh three thousand) as the project seems to be innovative. We request the Principal Investigator to submit the monthly report.

Project title	Principal Investigator	Project duration
Biodegradable spoon with digestive benefits : A papain – Infused innovation	Mr .T. Sampath kumar , AP / SSIP	1 years

Thanking you,


Arbor pharmaceuticals ,
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ABSTRACT

A Papain-Infused Innovation

This project aims to develop an eco-friendly biodegradable eating utensil with added health benefits by incorporating papain, a digestive enzyme derived from papaya. The research focuses on formulating the spoon using a blend of wheat flour and potato starch, materials known for their biodegradability. The inclusion of papain seeks to aid digestion by breaking down proteins when used in everyday dining. The study emphasizes the environmental impact of reducing plastic waste while promoting digestive health benefits. A key part of the research involves optimizing the mechanical strength and stability of the spoon, ensuring it can handle regular food consumption without losing its structural integrity. Various analytical methods such as tensile strength testing, biodegradability assays, and enzyme activity measurements will be employed to evaluate the spoon's performance. Market analysis will also be conducted to assess consumer interest in a functional, eco-friendly utensil. The results of this study aim to provide an innovative solution for reducing plastic waste while simultaneously promoting health, contributing to sustainability and wellness. This biodegradable spoon presents a practical approach to reducing the environmental footprint of disposable utensils while providing additional health benefits to users.




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