



# 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 : 05.12.2023

To

The Regional Head,  
The Madras Pharmaceutical,  
Chennai,  
Tamil Nadu.

Dear Sir/Madam,

Sub: Request for 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 staff and students in research-oriented activities. In this regard, we kindly request your support and permission to undertake a consultancy-related project titled "Optimization of a Phytoconstituent-Loaded Topical Gel: A Multifunctional Approach for Dermatological Applications" in association with your esteemed organization. This collaboration will enrich our knowledge and foster the development of innovative ideas with social relevance.

**Investigator:** Mrs.M. Gomathi, AP / SSIP

Thanking You ,



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SS INSTITUTE OF PHARMACY.  
KUPPANUR (PO), SANKARI (TK).  
SALEM - 637301  
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**Email:** [helpdesk@madraspharma.com](mailto:helpdesk@madraspharma.com)



To

Mr. M.Gomathi,  
Assistant Professor,  
SS Institute of Pharmacy,  
Sankari, Salem.

Dear Sir,

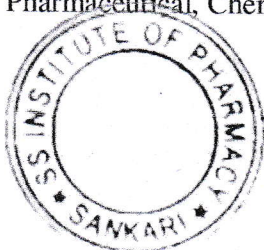
Subject: Acceptance and Provision of Financial Assistance for Funded Project – Reg.

We are pleased to inform you that the proposal submitted for the project titled "*Optimization of a Phytoconstituent-Loaded Topical Gel: A Multifunctional Approach for Dermatological Applications*" has been approved by our organization for possible funding of Rs. 90,000/- (Ninety thousand), as the project appears to be innovative. We kindly request the Principal Investigator to submit the monthly report.

Project title	Principal Investigator	Project duration
Optimization of a Phytoconstituent-Loaded Topical Gel: A Multifunctional Approach for Dermatological Applications	Mrs.M.Gomathi	1.5 Years

Thanking you,

The Regional Head,  
The Madras Pharmaceutical, Chennai



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## ABSTRACT

### **Optimization of a Phytoconstituent-Loaded Topical Gel: A Multifunctional Approach for Dermatological Applications" has been approved by our organization for possible funding**

This study is centered around the development of a topical gel loaded with phytoconstituents derived from medicinal plants, aimed at providing a multifunctional dermatological solution. The gel is designed to offer a range of therapeutic effects, including anti-inflammatory, antioxidant, and antimicrobial benefits, making it suitable for treating a variety of skin conditions such as acne, eczema, and wounds. The research focuses on optimizing the formulation by incorporating various phytoconstituents, such as flavonoids and alkaloids, to create a synergistic effect that enhances skin health. The gel base is carefully formulated using polymers such as Carbopol to ensure optimal viscosity, spreadability, and skin absorption. Evaluation methods include in vitro testing for antimicrobial efficacy, antioxidant activity assays, and stability studies to ensure the product's longevity and effectiveness. Additionally, skin irritation tests will be conducted to confirm the safety of the gel for daily use. The multifunctional approach of this topical gel offers a promising alternative to synthetic dermatological treatments, providing a natural and effective option for improving skin health.



*[Signature]*  
**PRINCIPAL,  
SS INSTITUTE OF PHARMACY,  
KUPPANUR (PO), SANKARI (TK),  
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