



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by AICTE, PCI, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram)

Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.

[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

## 3.1.1. Grants received from Government and non-government agencies for Research Projects/ Endowments in the Institution during the AY 2021-2022

S.No.	Name of the Principal Investigator/ co-investigator	Name of the Funding Agency	Department of the Principal Investigator/ co-investigator	Fund Provided (INR in Lakhs)	Duration of the project	Page No.
1	Dr.G.Prasanthi Ms.Y.V.vandana Ms.D.Purnima	CMS	Pharmaceutics	5.00	12 Months	2-10
2	Mr.V. Uma Sankar	AIPS	Pharmacy Practice	0.10	10 Months	15-17
3	Mrs.A.H.V. Santhoshi	AIPS	Pharmaceutical chemistry	0.10	10 Months	18-20
3	Mr. T.Rushinaidu	AIPS	Pharmacy practice	0.10	10 Months	21-23
4	Mr. A.Nanaji	AIPS	Pharmacognosy	0.10	10 Months	24-26
5	Ms. Y.V.Vandana	AIPS	Pharmaceutics	0.10	10 Months	27-29
6	Mrs. M.K.Rekha	AIPS	Pharmaceutics	0.10	10 Months	30-32
7	Mrs.B. Chaitanya	AIPS	Pharmaceutical Analysis	0.10	10 Months	33-35
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Principal

**PRINCIPAL**  
Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



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**(CMS SKILL CENTER)**

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Date: 9-11-2020

To  
The Principal  
Avanthi Institute of Pharmaceutical sciences, Cherukupally,  
Vizianagaram.

Dear Sir,

Sub: Looking for qualified team who can work for our organization's project.

I'm **Mr.G.JAGADEESHWARA RAO**, Managing Director of Crystal Mangement Services which is located at Visakhapatnam in Andhra Pradesh, India

Offering the ideal platform, for creative thinkers for creative thinkers to design and develop new drug entities. we guarantee incredible opportunities in different Pharmaceutical industries. With the best infrastructure, Technology, Equipments, and system support in its class, the innovators have nothing to be worried about. In particular, we offer cutting-edge facilities for improving instrument handling skills.

In addition to offering training and project development. we also offer consultancy and help with Characterization of Prepared formulations Formulate and evaluate. For aspiring Pharmacy researchers, our fund also acts as a catalyst to encourage the technological advancement. Therefore, if you have an idea, which you think is innovative then we are the right place where you can implement it

We are looking for a team of qualified faculty members at your college in Pharmacy Department who can work on analytical research and development and formulation research and development. If your college is interested to work in collaboration. We forward further documentation & I sincerely hope that we can keep the information confidential

Looking forward & thank you

**Mr.G.JAGADEESHWARA RAO**

Managing Director





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Cherukupally,  
12-11-2020.

From  
The Principal,  
Avanathi Institute Of Pharmaceutical Sciences,  
Cherukupally (Village).

To  
The Managing Director,  
Crystal Management Services  
Visakhapatnam,

Respected sir,

**Sub:** Req- Project Development-Acceptance -Reg

It gives us great pleasure to let you know that the project proposal for "**Artificial Neural Networks in the dissolution enhancements of BCS Class-II drugs**" has been confirmed. As we discussed in our conversation, we agreed to maintain the confidentiality of the Project. We appreciate you giving us the opportunity to work on your current project, which has to do with the most recent developments in the design sector.

Please be assured that we will make every effort to complete the project as quickly as we can.

Thanking you,

  
PRINCIPAL

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Cherukupally,  
12-11-2020.

From

The Principal

Avanathi Institute of Pharmaceutical Sciences,

Cherukupally (Village)

To

The Managing Director,

Crystal Management Services

Visakhapatnam.

Respected Sir,

**Sub: Project Development Team. I'm pleased to depute**

1. Dr.G.Prashanti
2. Ms.Y.V.Vandana
3. Ms D.Purnima Yadav

It's for necessary work.

Thanking You ,

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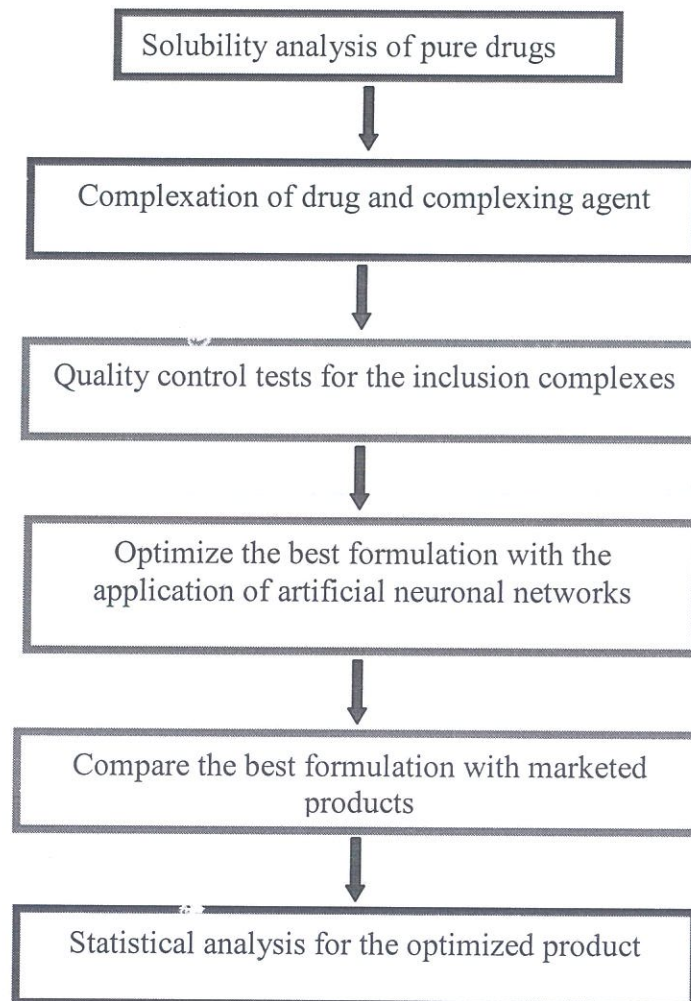
  
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Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



## Flow chart of Project Procedure



### Objectives:

- To carry out modelling by artificial neural networks and use them in the characterization of prepared formulations and in the selection of the best product.
- To formulate an immediate release tablet of Clopidogrel bisulphate and Dolutegravir sodium based on the optimized formulation given by the ANN.
- To evaluate the prepared immediate release tablet of Clopidogrel bisulphate and Dolutegravir sodium by *in-vitro* studies





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**WORK ORDER**

Date: 08-12-2020

Visakhapatnam

To  
The Principal  
Avanathi Institute of Pharmaceutical sciences, Cherukupally,  
Vizianagaram.

Dear Sir,

**Sub:** Request –Applicability of Artificial Neural Networks in the dissolution enhancement of BCS class –II drugs - Reg

To carryout modelling by Artificial Neural Networks and use them in charecterization of Prepared formulations as per telephonic discussion quotation we are pleased to place Work Order as below

<b>Requirements</b>	<b>Amount(in Rs.)</b>
Chemicals & Solvents	1,00,000/-
Equipments & Glassware	1,30,000 /-
Artificial Neural Network Software	1,20,000 /-
BCS Class II Drug Molecules	1,00,000/-
In-Vitro Pharmacological Studies	50,000/-
<b>Total Cost in rupees</b>	<b>5,00,000/-</b>

Rupees in words :Five Lakhs Only

Work Order Valid: One year (8<sup>th</sup> Dec 2020 to 31<sup>st</sup> Nov 2021)

**WORKING LOCATION:**

- Your Premises

Crystal Mangement Services

  
  
MANAGING DIRECTOR





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Cherukupally,

16-11-2021.

From  
The Principal,  
Avanathi Institute of Pharmaceutical Sciences,  
Cherukupally (Village)

To  
Managing Director,  
Crystal Management Services  
Visakhapatnam,

Respected Sir,

**Sub:** Project Completion-Reg

The project has been completed on 15.11.2021. It has been a great achievement by us to complete this prestigious project on time. It has been a great privilege, working in association with you and looking forward to work with you in future projects. We request you to please come along with your team for collecting, retrieving of important and confidential data .

I am looking forward to quick response from your side.

Thanking you



  
Principal

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Vizianagaram Dt., - 531162



## Project Report

### Introduction:

The project aims in formulating a product that gives the required release of the drug which then gets absorbed in an appropriate manner to give maximum possible bioavailability as oral route is the most preferred route of drug administration, from the perspective of the patients as well as the doctors. Oral solid formulations and especially tablets are preferred by one and all because of their several advantages. The primary objective of the project is to formulate an immediate release tablet of Clopidogrel bisulphate and Dolutegravir sodium based on the optimized formulation given by the ANN and to evaluate them by *in-vitro* studies.

### Scope of the Project:

An extensive amount of recent research has gone into methods to enhance the dissolution rate of poorly soluble drugs. This research project is involved in enhancing the solubility and developing formulations that enhance the dissolution rate of two poorly soluble drugs, namely, Clopidogrel bisulphate (CBS) and Dolutegravir sodium (DTG) by using cyclodextrins as complexing agent with the application of Artificial Neural Networks (ANN).

### Project planning and scheduling:

This research project was started with the aim of enhancing the solubility and consequently the bioavailability of the two selected BCS Class II drugs. Experimental work was carried out to achieve the objectives listed above. An introduction to the main topics in the research project, literature review, experimental procedures adopted, results obtained and discussions containing the interpretation of the results, usage of artificial neural networks to get at the optimised product will be effectively developed and ensure on-time project delivery.

### Methodology:

It was envisaged to enhance the solubility of the drugs, by preparing inclusion complexes of the drugs with cyclodextrins and to enhance it further by adding hydrophilic polymers to the complexes. The cyclodextrins selected for the study were  $\beta$ -CD and HP- $\beta$ -CD. The hydrophilic polymers selected were polyvinyl pyrrolidone K30 (PVP K30), poly ethylene glycol 6000 (PEG 6000) and polyvinyl caprolactam-polyvinyl acetate-polyethylene glycol graft copolymer (Soluplus). All the selected excipients are well known agents in causing enhanced dissolution of drugs.

Use of statistical techniques and optimization methods that rely on response surface methodology is nowadays a well-known practice in formulation development. But when the number of inputs increases, statistical conceptualization and optimization techniques become unmanageable. Further, statistical techniques need a hypothesis to generate a suitable model.



  
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### **Technology and tool Used:**

Artificial neural networks (ANN) are going to be a better working tool or modeling tool. The ANNs are computational algorithms implemented by computer software that study data in a manner similar to the human brain. They try to learn, extrapolate and extract the basic logic or meaning or trend of the data. ANNs comprise of different processing nodes. These nodes are skilled in taking out non-linear relationships from the input data and using the knowledge in predicting the outcome from the preferred situation. ANNs are very beneficial. ANNs do not depend on rigidly organized experimental designs. They use past or incomplete data and can map functions.

A two-layer artificial neural network, named, Levenberg-Marquardt Algorithm was proposed to be studied for applicability in the characterization of the developed formulations and in the selection of the best formulation in the present research project.

### **Budget:**

A budget will be estimated to cover the costs of human resources, ANN software, selected BCS Class II drugs, Chemicals, reagents, statistical techniques and other miscellaneous expenses.

### **Risk Management:**

A risk assessment will be conducted to identify potential challenges such as data inaccuracies, result analysis and time constraints. Extenuation plans will be developed to minimize these risks effectively.

### **Conclusion:**

The application of artificial neural networks in formulation development of Clopidogrel bisulphate and Dolutegravir sodium complexes. In this study, ANNs were used as a machine learning technique to evaluate the influence of cyclodextrins ( $\beta$ -CD, HP- $\beta$ -CD) on dissolution enhancement of CBS and DTG with and without hydrophilic polymers (PVP K30, PEG 6000 & SOLUPLUS. A trained ANN model was employed to predict release profile and optimize the formulation composition based on the percentage of the drug released. The network performance was validated by the regression data which validates the network output with respect to training, validation and test sets and a good fit shows the network outputs are almost equal to targets with minimum error. The successful completion of project will significantly benefit the pharmaceutical industry by providing reliable results.

  
PRINCIPAL INVESTIGATOR

  
PRINCIPAL

PRINCIPAL

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## UTILITY CERTIFICATE

We the principal investigator and Co-investigators hereby certify that the work order for "Artificial Neural Networks in the dissolution enhancements of BCS Class-II drugs", as per the discussed quotation and telephonic conversation, has been placed with e respective party.

The details of the work order as follows:

Requirements	Amount (in Rs.)
Chemicals & Solvents	1,00,000/-
Equipments & Glassware	1,30,000 /-
Artificial Neural Network Software	1,20,000 /-
BCS Class II Drug Molecules	1,00,000/-
In-Vitro Pharmacological Studies	50,000/-
<b>Total Cost in rupees</b>	<b>5,00,000/-</b>

We confirm that the before mentioned rates are reasonable and necessary for carrying out the mentioned tasks efficiently. We assure you that these rates will be utilized in the best possible manner to achieve optimal results in this project. Furthermore, we ensure complete transparency and accountability in all our financial transactions related to this project.

Please let us know if any additional information is required from our end .We look forward to your continued support and cooperation.

Thanking you,

Yours sincerely,

*G. Prashanti*

Dr.G.Prashanti  
Principal Investigator

*Y.V. Vandana*

Ms Y.V.Vandana  
Co-Investigator

*D. Purnima*

Ms D.Purnima Yadav  
Co- Investigator



*Dr. G. Prashanti*  
**PRINCIPAL**  
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ESTD : 2005

Date: 15-11-2021

## R&D Circular

**Sub:** Seed Money Sponsorship for R&D Projects

An R&D project involving a regular faculty member or team of faculty members will be given a seed budget of no more than Rs. 15,000 per project. The approval of seed money for an application project will depend on review by a committee that the principal has constituted. To apply for seed money in this regard, all faculty members must deliver a hard copy of their project proposals to the principal by no stretch of time than November 15, 2021. Please get in contact with the HOD of Pharmacy department for further details. The smooth functioning of the plan will be the responsibility of the R&D coordinators.



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**NOTICE**

For the final evaluation of the R&D projects to be approved under the institution Seed Money Scheme, assessment committees are hereby established as proceeds

**Departmental R& D Committee Members AY 2020-2021**

S. No	Name of the faculty	Post	Designation
1.	Dr. M. B. V. Raju	Chairman	Professor & Principal
2.	Dr. G. Prashanti	Coordinator	Professor
3.	Mr. A. Nanaji	Member	Associate Professor
4.	Dr. T. Rushinaidu	Member	Assistant Professor
5.	Mr. S. Chandrasekhar	Member	Associate Professor
6.	Mrs. B. Purnima	Member	Associate Professor
7.	Mr.Ch. Madhu	Member	Associate Professor

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Date: 27-11-2021

**Selected List**

Note on seed money proposals: Regd.

With reference to the circular dated 15.11.2021 regarding inviting R&D proposals under seed money scheme and the assessment committee evaluated all the submitted proposals based on the novelty and future scope and shortlisted 07 projects and further recommended for seed money grant. Total budget of all the projects will be 80,500/- for the academic year 2021-22.



  
Principal

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**List of Proposals shortlisted for seed money grant**

S.No	Name of the Faculty	Department	Title	Amount (Rs.)
1	Mr. V.Uma Sankar	Pharmacy Practice	A clinical pharmacist program for comprehensive anemia management	11,500
2	Mrs. A.H.V Santhoshi	Pharmaceutical chemistry	Comparative anti-helminthic efficacy of plant extracts	12,000
3	Mr. T. Rushi	Pharmacy practice	Navigating heart health decoding lipid profile in obesity and ciliary disease	10000
4	Mr. A.Nanaji	Pharmacognosy	Design and Development of polyelectrolyte complexes using eudragit- EPO and Pectin	16000
5	Mr. Y.V.Vandana	Pharmaceutics	Breath well campaign	10000
6	Mrs. M.K Rekha	Pharmaceutics	Formulation and evaluation of mucoadhesive buccal tablet of ketorolac tromethamine	10000
7	Mrs. B. Chaitanya	Pharmaceutical Analysis	A new robust analytical method development and validation for simultaneous estimation of riboculid and letrozole in solid dosage form {Tablet}	11,000

  
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Cherukupally  
16-11-2021.

To  
The Principal,  
Avanthi Institute of Pharmaceutical sciences,  
Cherukupally.

Respected sir,

**Sub: Request** for support/ Sponsorship for developing project-reg.

I am Mr. V.Uma Sankar working as an Associate Professor in Department of pharmacy practice in your college. I would like inform to you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme

Name of the Project	Department	Estimated Cost (Rs)
<b>A clinical pharmacist program for comprehensive anemia management</b>	Pharmacy practice	<b>11,500/-</b>

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

*V. Uma Sankar*  
Signature of the Project Investigator

Department of pharmacy practice



*V. Uma Sankar*  
**PRINCIPAL**  
**Avanthi Institute of Pharmaceutical Sciences**  
Cherukupally (V), Bhogapuram Mandal  
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**SEED MONEY SCHEME GRANT SANCTION**

**Sub:** Financial sanction of the research project titled "**A clinical pharmacist program for comprehensive anemia management**" for Mr. V.Uma Sankar under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs 11,500/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

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## UTILIZATION CERTIFICATE

### Academic year -2021-2022

Certified that the grant of Rs. 11,500/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled " **A clinical pharmacist program for comprehensive anemia management** " has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

*V. Uma Sankar*

Signature of the Project Investigator

Department: Pharmacy practice



*[Signature]*  
PRINCIPAL  
Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
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Cherukupally,  
20-11-2021

To  
The Principal,  
Avanthi Institute of Pharmaceutical sciences,  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Mrs. A H V Santhoshi working as an Associate Professor in Department of pharmaceutical chemistry in your college. I would like to inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme

Name of the Project	Department	Estimated Cost (Rs)
Comparative anti-helminthic efficacy of plant extracts	Pharmaceutical chemistry	12,000/-


We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

Signature of the Project Investigator

Department: Pharmaceutical chemistry



  
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Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162





ESTD : 2005

## **SEED MONEY SCHEME GRANT SANCTION**

**Sub:** Financial sanction of the research project titled "**Comparative Anti-helminthic efficacy of plant extracts**" for Mrs.A H V Santhoshi under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs 12,000/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

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## UTILIZATION CERTIFICATE

### Academic year 2021-2022

Certified that the grant of Rs. 12,000/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled "**Comparative anti-helminthic efficacy of plant extracts** " has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

*A.H.V. Senthil*

Signature of the Project Investigator

Department: Pharmaceutical chemistry



*[Signature]*  
**PRINCIPAL**  
Avanthi Institute of Pharmaceutical Sciences  
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ESTD : 2005

Cherukupally  
27-11-2021

To  
The Principal,  
Avanthi Institute of Pharmaceutical sciences  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Dr. T. Rushinaidu working as an Assistant Professor in Department of pharmacy practice in your college. I would like to inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme

Name of the Project	Department	Estimated Cost (Rs)
Navigating heart health decoding lipid profile in obesity and ciliary disease	Pharmacy practice	10,000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

Signature of the Project Investigator

Department: pharmacy practice



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## **SEED MONEY SCHEME GRANT SANCTION**

Sub: Financial sanction of the research project titled "**Navigating heart health decoding lipid profile in obesity and ciliary disease**" for Dr. T. Rushinaidu under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of 10,000/-

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

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**Avanthi Institute of Pharmaceutical Science**  
**Cherukupally (V), Bhogapuram Manda**  
**Vizianagaram Dt., - 531162**





ESTD : 2005

**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**  
(Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTUK-Kakinada)  
Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162.  
[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

## UTILIZATION CERTIFICATE

### Academic year -2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled "**Navigating heart health decoding lipid profile in obesity and ciliary disease**" has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department: pharmacy practice



**PRINCIPAL**  
Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



Cherukupally,  
22-11-2021

To  
The Principal,  
Avanthi Institute of Pharmaceutical sciences,  
Cherukupally.

Respected sir,


**Sub: Request** for support/ Sponsorship for developing project-reg.

I am Mr.A.Nanaji working as an Associate Professor in Department of pharmacognosy in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.


Name of the Project	Department	Estimated Cost (Rs.)
<b>Design and Development of polyelectrolyte complexes using Eudragit- EPO and Pectin</b>	Pharmacognosy	16,000/-

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

  
Signature of the Project Investigator  
Department of Pharmacognosy



  
**PRINCIPAL**  
**Avanthi Institute of Pharmaceutical Sciences**  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162





ESTD : 2005

**SEED MONEY SCHEME GRANT SANCTION**

**Sub:** Financial sanction of the research project titled "**Design and Development of Polyelectrolyte complexes using Eudragit- EPO and Pectin**" for Mr. A.Nanaji under SEED money scheme.

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs. 16,000/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

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**Avanthi Institute of Pharmaceutical Sciences**  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



**UTILIZATION CERTIFICATE**

**Academic Year -2021-2022**

Certified that the grant of Rs. 16,000/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled " **Design and Development of polyelectrolyte complexes using eudragit- EPO and Pectin** " has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department of Pharmacognosy



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**Cherukupally (V), Bhogapuram Mandal**  
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[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

Cherukupally,  
24-11-2021.

To  
The Principal,  
Avanthi Institute of Pharmaceutical sciences  
Cherukupally.

Respected sir,

**Sub:** Request for support/ Sponsorship for developing project-reg.

I am Ms.Y.V.Vandana working as an Associate Professor in Department of pharmaceutics in your college. I would like inform to you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.

Name of the Project	Department	Estimated Cost (Rs)
Breath well campaign	Pharmaceutics	10,000/-

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

Signature of the Project Investigator

Department: pharmaceutics



**PRINCIPAL**  
Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



## SEED MONEY SCHEME GRANT SANCTION

Sub: Financial sanction of the research project titled "**Breath well campaign**" for Ms.Y .V. Vandana under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs 10,000/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal



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**Avanthi Institute of Pharmaceutical Sciences**  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162





## UTILIZATION CERTIFICATE

### Academic Year 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled "**Breath well campaign** " has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

*Y. V. Vanchare*

Signature of the Project Investigator

Department: pharmaceutics



*[Signature]*  
PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



Cherukupally  
26-11-2021

To  
The Principal,  
Avanathi Institute of Pharmaceutical sciences  
Cherukupally.

Respected sir,


**Sub: Request** for support/ Sponsorship for developing project-reg.

I am Mrs.M.K.Rekha working as an Associate Professor in Department of pharmaceutics in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme.


Name of the Project	Department	Estimated Cost (Rs.)
Formulation and evaluation of mucoadhesive buccal tablet of ketorolac tromethamine	Pharmaceutics	10,000/-

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

  
Signature of the Project Investigator  
Department: pharmaceutics



  
**PRINCIPAL**  
Avanathi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162





## SEED MONEY SCHEME GRANT SANCTION

Sub: Financial sanction of the research project titled "**Formulation and evaluation of mucoadhesive buccal tablet of Ketorolac tromethamine**" for Mrs.M.K.Rekha under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs 10,000/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal



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**Cherukupally (V), Bhogapuram Mandal**  
**Vizianagaram Dt., - 531162**



## UTILIZATION CERTIFICATION

### Academic Year 2021-2022

Certified that the grant of Rs. 10,000/-, received from Avanthi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled "**Formulation and evaluation of mucoadhesive buccal tablet of ketorolac tromethamine**" has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

Signature of the Project Investigator

Department: pharmaceutics



**PRINCIPAL**  
**Avanthi Institute of Pharmaceutical Sciences**  
**Cherukupally (V), Bhogapuram Manda**  
**Vizianagaram Dt., - 531162**





Cherukupally  
18-11-2021

To  
The Principal,  
Avanathi Institute of Pharmaceutical sciences  
Cherukupally.

Respected sir,

**Sub: Request** for support/ Sponsorship for developing project-reg.

I am Mrs. Chaitanya working as an Associate Professor in Department of pharmaceutical analysis in your college. I would like inform you that it gives me great pleasure to convey that I have been investigating various ideas and creating multiple projects in our college. As a part of it, I'm enthusiastic to solicit help or sponsorship for the development of a project on the campus of our college under the seed money scheme

Name of the Project	Department	Estimated Cost (Rs)
<b>A new robust analytical method development and validation for simultaneous estimation of ribociclid and letrozole in solid dosage form { Tablet}</b>	Department of Pharmaceutical analysis	11,000/-

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

*B. Chaitanya*  
Signature of the Project Investigator

Department: pharmaceutical Analysis



*[Signature]*  
**PRINCIPAL**  
Avanathi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



ESTD : 2005

SEED MONEY SCHEME GRANT SANCTION

Sub: Financial sanction of the research project titled " **A new robust analytical method development and validation for simultaneous estimation of riboculid and letrozole in solid dosage form {Tablet}**" for Mrs. Chaitanya under SEED money scheme

The AIPS management is glad to approve the aforementioned proposal for potential funding through the institute's SEED money program. The above-mentioned project is hereby approved for a SEED award at a cost of Rs.11,000/-.

1. The institute SEED money plan policy's conditions must be met in order for the grant to be sanctioned.
2. The money shouldn't be used for anything other the authorized project-related expenses.
3. The project's successful conclusion should fall under the purview of the PI.
4. If the performance of the work is found not satisfactory, than the undersigned has the right to terminate the project under SEED money scheme at any point of time.

  
Principal

**PRINCIPAL**

**Avanthi Institute of Pharmaceutical Sciences**  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



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**UTILIZATION CERTIFICATE**

**Academic Year 2021-2022**

Certified that the grant of Rs. 11,000/-, received from Avanathi Institute of pharmaceutical sciences under the Seed Money Scheme, for the Research Project entitled "**A new robust analytical method development and validation for simultaneous estimation of Ribocu Lid and Letrozole in solid dosage form {Tablet}**" has been fully utilized for the purpose for which it was sanctioned and in accordance with in terms and conditions laid down in R&D policy of the institute.

*B. Chaitanya*

Signature of the Project Investigator

Department: pharmaceutical Analysis



*[Signature]*  
**PRINCIPAL**

**Avanathi Institute of Pharmaceutical Science**  
**Cherukupally (V), Bhogapuram Manda**  
**Vizianagaram Dt., - 531162**



# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

## Money Transaction Details for Seed Money Scheme AY 2021-2022

Regarding the circular dated 15-11-2021 that asked R&D proposal under the seed money scheme, assessment of all the submitted proposals were evaluated by the R&D committee based on the originality and future potential, shortlisted 07 projects, then released the fund and the transactions details as follows

S.No	Name of the Faculty	Department	Transactions Details	Account No.	Amount (Rs.)
1	Mr. V.Uma Sankar	Pharmacy Practice	Cheque No: 318467 Date:16.02.2022	110114458358	11,500
2	Mrs.A.H.V.Santhoshi	Pharmaceutical chemistry	Cheque No: 318467 Date:16.02.2022	110114456584	12,000
3	Mr. T.Rushi	Pharmacy practice	Cheque No: 318467 Date:16.02.2022	110114898226	10000
4	Mr. A.Nanaji	Pharmacognosy	Cheque No: 318467 Date:16.02.2022	110116243819	16000
5	Mr. Y.V Vandana	Pharmaceutics	Cheque No: 318467 Date:16.02.2022	110116243437	10000
6	Mrs. M.K .Rekha	Pharmaceutics	Cheque No: 318467 Date:16.02.2022	91801009639093	10000
7	Mrs. B.Chaitanya	Pharmaceutical Analysis	Cheque No: 318467 Date:16.02.2022	110114641470	11,000
				<b>Total</b>	<b>80,500</b>

Financial officer

Principal

Avanthi Institute of Pharmaceutical Sciences  
CHERUKUPALLY (V)  
CHITTIVALASA S.A.O.  
Bhogapuram (M), Vizianagaram Dist



**PRINCIPAL**  
Avanthi Institute of Pharmaceutical Sciences  
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[www.avanthipharma.ac.in](http://www.avanthipharma.ac.in), [principal@avanthipharma.ac.in](mailto:principal@avanthipharma.ac.in)

## Invoices and Money Transaction for Funded Projects AY 2021-2022

S.No	Funding Agency	Amount (Lakhs)
1	Crystal Management Services	5.00
<b>Total</b>		<b>5.00</b>



  
**PRINCIPAL**  
Avanathi Institute of Pharmaceutical Sciences  
Cherukupally (V), Bhogapuram Mandal  
Vizianagaram Dt., - 531162



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A/c No. 3804596950

For Crystal Management Services  
Managing Partner

कृपया हस्ताक्षर ऊपर करें / Please sign above

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**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**

Joint Holder :-

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BHOGAPURAM MANDAL

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ANDHRA PRADESH-INDIA

531162

CustomerNo :879983002

Scheme :SB-TRUST/SOCIETY/NGO-GOVT

Currency :INR

**Statement of Axis Account No :918010018191104 for the period (From : 29-11-2021 To : 30-11-2021)**

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		<b>OPENING BALANCE</b>			<b>345722.31</b>	
29-11-2021		AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCE - 02 26.11.		25925.00	371647.31	274
30-11-2021		By Clg 7086616002 Vizag		500000.00	874647.31	2568
30-11-2021		AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCE - 02 29.11.		143820.00	1015467.31	274
30-11-2021		AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES		10000.00	1025467.31	274
		<b>TRANSACTION TOTAL</b>		<b>679745.00</b>		
		<b>CLOSING BALANCE</b>			<b>1025467.31</b>	

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and/or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.


We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord, login id and debit card number through emails OR phone call. Further, we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to [customer.service@axisbank.com](mailto:customer.service@axisbank.com)

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges, please visit [www.axisbank.com](http://www.axisbank.com)

Deposit Insurance and Credit Guarantee Corporation (DICGC) insurance cover is applicable in all Bank's deposits, such as savings, current, fixed, recurring etc. \* up to maximum amount of Rs 5 Lakh including principal & interest both\* (\*for exceptions and details please refer <http://www.dicgc.org.in/>)

REGISTERED OFFICE-AXIS BANK LTD, TRISHUL, Opp. Samartheswar Temple, Near Law Garden, Ellisbridge, Ahmedabad. 380006. This is a system generated output and requires no signature.

S

  
**PRINCIPAL**  
 Avanthi Institute of Pharmaceutical Sciences  
 Cherukupally (V), Bhogapuram Mandal  
 Vizianagaram Dt., - 531162