



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

## Details of the Collaborative Activity

2018-19

**Name of the Collaborating Institute:** Raghavendra Institute of Pharmaceutical Education & Research (RIPER), Andhra Pradesh.

**Collaborating Department:** Yenepoya Pharmacy College and Research Center

**Year of MoU:** 2017

### Activities:

- **Joint Research:**

Dr. Mohammed Gulzar Ahmed, Yenepoya Pharmacy College and Research Center collaborated with Dr. Padmanabha Reddy and Dr. Chaithanya, Raghavendra Institute of Pharmaceutical Education & Research (RIPER), Andhra Pradesh for Joint research and submitted proposal for external funding agency

**Project title:** Drug discovery of anticancer agents from Medicinal Mushrooms: A Multitargeting Approach.

- **Joint Publication:**

1. Komal PY, Chaitanya MVNL, Ramalingam P, G.S. Bharath, Reddy PY, Ahmed MG. Current Regulatory Perspective of Herbal Drugs. *Indo American Journal of Pharmaceutical Sciences*, 2019, 06(05), 9547-9551

- **MoU:** MoU was signed in the year 2017

ATTESTED

Dr. Mangadhara Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka



## YENEPOYA PHARMACY COLLEGE & RESEARCH CENTRE

University Road, Deralakatte, Mangaluru - 575018

RIPER

Ref.No.YPCRC/534/2018-19

Date: 13.12.2018  
Mangaluru

### TO WHOM IT MAY CONCERN

**LETTER OF CONSENT** for Raghavendra Institute of Pharmaceutical Education and Research (RIPER), Anantapuramu, India.

I write on behalf of the Yenepoya Pharmacy College & Research Centre, Yenepoya University Deralakatte Mangaluru, Karnataka, India to support and collaborate the application of of Dr. Y Padmanabha Reddy as the Project coordinator and Dr. P Ramalingam, Dr. M.V. N. L. Chaitanya, Dr. Santhivardhan Chinny as the team members for the DBT Sponsored ATGC, Multi-institutional Academic Lead Translation (ALT) Project titled "Drug discovery of anticancer agents from Medicinal Mushrooms: A Multitargeting Approach"

If successful, I am giving my consent to participate as collaborator with out any objection.

**PRINCIPAL**

Principal / Dean

Yenepoya Pharmacy College & Research Centre  
Deralakatte, Mangaluru-575018

**ATTESTED**

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya(Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka

## Proposal Submission under ATGC Grant Call Part I Basic Information

- Name of the Institution submitting the Proposal: Raghavendra Institute of Pharmaceutical Education & Research (RIPER) (AUTONOMOUS)
- Address:  
K. R. Palli Cross, Chiyyedu (Post), Near SK University,  
Ananthapuramu (Dist) – 515721  
Andhra Pradesh, India.  
Phone: + 91 9866098322 , 9866025099  
Email: [riperatp@rediffmail.com](mailto:riperatp@rediffmail.com), [riperatp@gmail.com](mailto:riperatp@gmail.com)  
Website: [www.riper.ac.in](http://www.riper.ac.in)
- Status of the Institution: Society
- Title of the Proposal: Drug discovery of anticancer agents from Medicinal Mushrooms: A Multitargeting Approach
- Relevant Area:  
Drugs and Drug Discovery
- Name of the Project Coordinator: Dr Y Padmanabha Reddy
- Proposal Duration: 24 months
- Total Cost: 76.89 Lakhs
- Single/Multi-institutional: Multi Institutional
- Scheme Component:  
(1) Academic Lead Translation (ALT)
- Collaboration: Collaborator Details

Sl. No.	Collaborator Name	Collaborator Type (Academia)
1	✓ Dr Mohammed Gulzar Ahmed	Principal & Professor Yenepoya Pharmacy College & Research Centre , Mangalore, Kerala, India
2	Dr. K B Harikumar	Scientist E1, Cancer Research Program, Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram, Kerala

 ATTESTED

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya/Deemed to be University)  
University Road, Geratkatte  
Mangalore- 575 016, Karnataka

**Particulars of the**

**Applicant Project**

**Coordinator Details**

First Name: Padmanabha Reddy  
Last Name: Yiragamreddy  
Gender : Male  
Designation: Principal & Professor  
Landline : + 91 9866098322 , 9866025099  
Mobile:+919848543932  
Email: ypreddyatp@gmail.com

**Team Members**

(i)

First Name : Ramalingam  
Last Name: Peraman  
Gender: Male  
Designation: Professor and R& D Head  
Affiliation : Raghavendra Institute of Pharmaceutical Education & Research (RIPER)  
(AUTONOMOUS), CPR-RERDS, RIPER CAMPUS  
Landline: + 91 9866098322 , 9866025099  
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(ii)

First Name : M V N L  
Last Name: Chaitanya  
Gender : Male  
Designation: Associate Professor & Head  
Affiliation : Phytomedicine & Phytochemistry, CPR-RERDS, RIPER CAMPUS  
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Email: [chaitanya.phyto@gmail.com](mailto:chaitanya.phyto@gmail.com)

(iii)

First Name : Santhivardhan  
Last Name: Chinny  
Gender : Male  
Designation: Associate Professor & Head  
Affiliation : Pharmacology & Toxicology, CPR-RERDS, RIPER CAMPUS  
Landline : + 91 9866098322 , 9866025099  
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Email: chinni0143@gmail.com

**ATTESTED**  

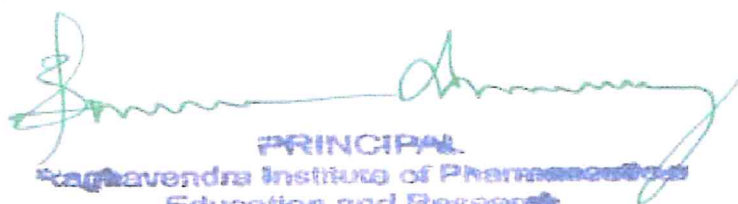

Dr.Gangadhara Somayaji K.S.  
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3	Studies on the efficacy of <i>Rosmarinus officinalis</i> L and <i>Salvia officinalis</i> L. plant extracts against post-stroke brain damage and neurological recovery in male rats	SPARC	2018 (Submitted)	PI	2	5000000
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**VI) Professional Experience and Training relevant to the Project: 25 years**

**DECLARATION**

“I hereby declare that all statements made in this application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect or suppressed, my candidature, at any stage, is liable to be cancelled.”



**PRINCIPAL**  
 Jagadeendra Institute of Pharmaceutical  
 Education and Research  
 JIYEDU - 575 721 Anantapur A.P.

**ATTESTED**



Dr.Gangadhara Somayaji K.S.  
 Registrar  
 Yenepoyal Deemed to be University  
 University Road, Deralahatte  
 Mangalore- 575 016, Karnataka

1. Vinay C H, Prakash Goudanavar, Ankit Acharya, Mohammed Gulzar Ahmed and Prem kumar. Development and charecterization of orange peel based Nanoparticles. Asian Journal of Pharmaceutical Research, vol 8, Issue-2, April- June 2018, 71-77.
2. Vinay C H, Mohammed Gulzar Ahmed, Prakash Gowdanavar and Ankit Acharya. Development and characterization of Pomegranate – based Nanoparticles for Drug delivery applications. International Journal of Pharmaceutical Sciences and Nanotechnology, vol 11, Issue-1, Jan-Feb 2018, 3979-3984.
3. Manodeep Chakraborty, Mohammed Gulzar Ahmed and Ananya Bhattacharjee. Potential pharmacodynamics and pharmacokinetic interaction of pomegranate juice and neteglinide against diabetes induced complications in rats. Synergy. Volume 5, 2017. 01-06.
4. Sanjana A and Mohammed Gulzar Ahmed. Development and In Vitro Evaluation of Rosuvastatin tablets by Floating Delivery System. Asian Journal of Pharmaceutics. Suppl Volume 11, Issue-2, April-June 2017. S260- S264

**V) Project(s) submitted/being pursued/carried out by Investigator: NA**

**VI) Professional Experience and Training relevant to the Project: 10 years**

#### DECLARATION

“I hereby declare that all statements made in this application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect or suppressed, my candidature, at any stage, is liable to be cancelled.”



**ATTESTED**  


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## INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES

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Review Article

### CURRENT REGULATORY PERSPECTIVE OF HERBAL DRUGS

**Komal Patel<sup>1</sup>, M.V. N.L. Chaitanya<sup>2\*</sup>, P. Ramalingam<sup>3</sup>, G.S. Bharat<sup>4</sup>,  
Y. Padmanabha Reddy<sup>5</sup>, Mohammed Gulzar Ahmed<sup>6</sup>**

<sup>1</sup>Associate Professor, Pharmacognosy, Parul Institute of pharmacy, Parul University, Vadodhara, India.

Email: [komal.patel16032@paruluniversity.ac.in](mailto:komal.patel16032@paruluniversity.ac.in)

<sup>2\*</sup>Head, Phytomedicine & Phytochemistry Division (RERDS-CPR), Raghavendra Institute of Pharmaceutical Education & Research (RIPER) (AUTONOMOUS) campus, Ananthapuramu (Dist) – 515721, AP, India. Email: [chaitanya.phyto@gmail.com](mailto:chaitanya.phyto@gmail.com)

<sup>3</sup>Director, RERDS-CPR, Raghavendra Institute of Pharmaceutical Education & Research (RIPER) (AUTONOMOUS), Ananthapuramu (Dist) – 515721AP, India.

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<sup>4</sup> Research Associate, RERDS-CPR, Raghavendra Institute of Pharmaceutical Education & Research (RIPER) (AUTONOMOUS), Ananthapuramu (Dist) – 515721AP, India. Email:

[bharath.gavini@gmail.com](mailto:bharath.gavini@gmail.com)

<sup>5</sup>CEO (RERDS-CPR), Raghavendra Institute of Pharmaceutical Education & Research (RIPER) (AUTONOMOUS) campus, Ananthapuramu (Dist) – 515721 AP, India.

Email: [ypreddyatp@gmail.com](mailto:ypreddyatp@gmail.com)

<sup>6</sup> Principal & Professor, Yenepoya Pharmacy College & Research Centre, Yenepoya University Campus. University Road, Deralakatte, Mangalore 575018, Karnataka State, India, Email:

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**Article Received: March 2019**

**Accepted: April 2019**

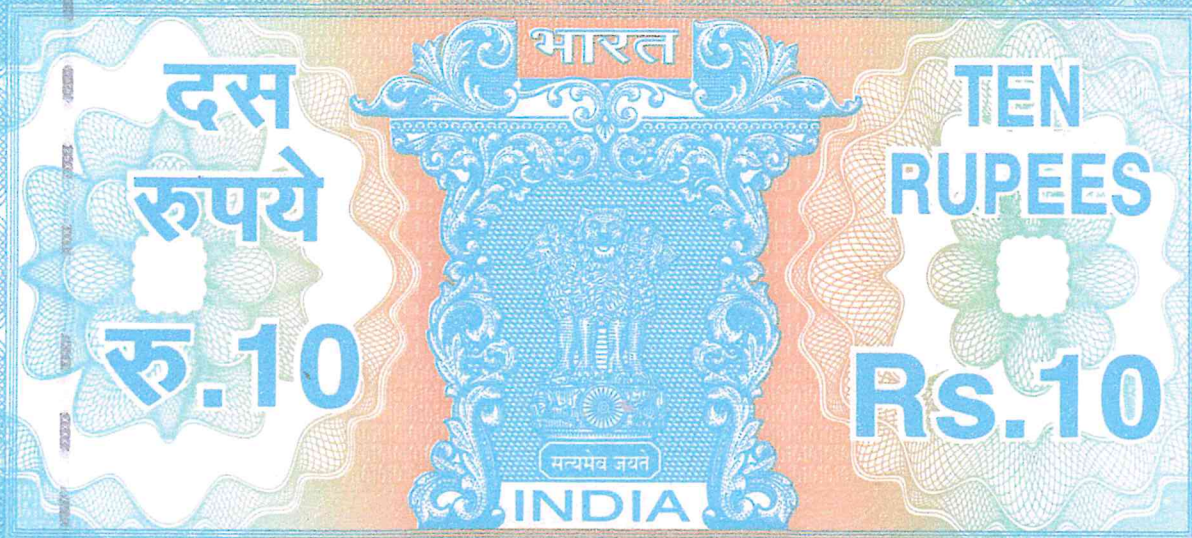
**Published: May 2019**

**Abstract:**

*The current challenging aspect of herbal medicine or traditional system is maintenance of quality, safety and efficacy issues. As there is a global recognition for the herbal drugs as an healing aids, the demand for these traditional system have been increased drastically from 19<sup>th</sup> century to 21<sup>st</sup> century. As the main challenge of this herbal medicine / drugs is maintenance of DNA finger printing, phytochemical and therapeutic uniformity, lack of Good clinical practices, standard operating protocols, no proper protocols or guidelines on pharmacokinetic and pharmacodynamic issues, no standardisation protocols, no control on residual limits (Pesticide residues, Microbe residues, heavy metal residues, solvent residues and teratogenicity). In order to meet this challenges the regulatory agencies EMEA, ICH AYUSH, WHO, USFDA trying to bring these herbal therapies/drugs under regulatory pipeline under the NDA approval process. In order to meet these current challenges, the Indian Herbal Pharmacopoeia has published 40 monographs monitored by Indian Drugs Manufacturers Association (IDMA). The current review focuses on the current trends in herbal drug safety monitoring and regulatory aspects of Herbal therapeutics.*

*Keywords: Herbal medicines, Therapeutic uniformity, Standardisation, Regulatory challenges.*

भारतीय गैर न्यायिक



INDIA NON JUDICIAL

ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

S No 2927 Date 22/8/16 Rs. 10

To: Principal

For Whom: RIPER Anantapur



Y. Bharath Kumar  
78AA 308571

Y. BHARATH KUMAR  
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YENEPOYA UNIVERSITY

(Recognized under sec 3(A) of the UGC Act, 1956)  
Accorded by MAAC with "A" Grade

**FRAMEWORK AGREEMENT FOR COLLABORATION ON RESEARCH BETWEEN YENEPOYA UNIVERSITY ANDRAGHAVENDRA INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH (RIPER) - AUTONOMOUS.**

This Agreement dated 14/July/2017 is made **BY AND BETWEEN:**

**The party of the first part,**

Dr. Shreekumar Menon, Registrar of Yenepoya University, Deralakatte, Mangalore, Karnataka, India, acting on behalf of Yenepoya University, Mangalore.

ATTESTED

**And the party of the second part,**

Dr. Y. Padmanabha Reddy, Principal & Dr. P. Ramalingam, Director, Research & Development Division, Raghavendra Institute of Pharmaceutical Education and Research (RIPER) - Autonomous, K.R.Palli Cross, Chiyvedu, Anantapuramu Dist., Andhra Pradesh- 515721.

Y. Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
Chiyvedu, Deralakatte  
Mangalore 575 018, Karnataka.

Handwritten signatures in blue and green ink.



The Parties mutually acknowledge the necessary capacity to subscribe to this Framework Agreement, and to this effect:

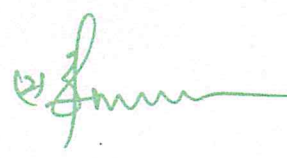
### DECLARE

**FIRST.-** That Yenepoya University is a private Deemed- to- be University under section 3A of the UGC Act 1956 (2008). The University was accredited with NAAC "A" grade with CGPA points 3.14 in the year 2015. University offers 105 different programmes in Health and Allied Sciences, The University currently has on its rolls nearly 3500 students. The University has introduced 70 new programmes during last 5 years. The University has introduced Ph.D programme in 39 Departments and Research Centres as per the UGC regulations. Research fellowship schemes and short research studies have been included in the curriculum to bring about research orientation and practice of evidence based medicine. 19 Application Oriented Courses and Value Added programmes enable students to acquire softskills and provide greater employment opportunities.


**SECOND.-**Raghavendra Institute of Pharmaceutical Education and Research (RIPER) is an Autonomous Pharmacy institute accredited by NAAC, NBA(UG) and secured 20<sup>th</sup>rank in NIRF for the year 2016 and 90<sup>th</sup>rank in NIRF for the year 2017 and 2. The institute is exclusively dedicated to Pharmacy education offering B. Pharm., M. Pharm., Pharm. D., Ph. D (full-time) and D. Pharm as per norms of AICTE, PCI New Delhi and SBTET Andhra Pradesh. The institute is established in the year 2002 by a team of Pharmacy professionals under Raghavendra Educational and Rural Development Society (RERDS). In order to strengthen reaseach activities, Research & Development (R & D) Division has been established with an aim to accelarate research in Pharmaceutical sciences and its allied fields.

**THIRD.-**That both parties according to their nature and purposes share interests in the development of research in order to foster the creation, the comprehension and transfer of knowledge. Therefore, both parties are interested in signing an agreement regulating this collaboration and developing the described objectives. From now on this agreement will be called Framework Agreement, subject to the following

11



**ATTESTED**

  
Dr. Gangadhara Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.

## CLAUSES

### FIRST- OBJECTIVE

This Framework Agreement is intended to facilitate the scientific exchange and advice between the undersigned institutions within the scope described in this document and, in particular, those activities related to teaching, research, management and transfer of the results of research activity.

### SECOND.- FORMS OF COLLABORATION

The forms of collaboration under this Framework Agreement may include, but are not limited to:

1. Preparation and development of joint research projects; in which doctoral students can participate doing doctoral research as part of their PhD.
2. Implementation and joint development of specialized training programmes such as degrees, postgraduate and doctoral programmes official.
3. Teaching support in degrees, postgraduate and doctoral programmes official through giving conferences and specialized seminars.
4. Use of scientific and technical facilities;
5. Exchange of researchers;
6. Exchange of PhD students;
7. Scientific, technical and academic advice;
8. Creation or participation in networks concerning different fields;
9. Organization of conferences and seminars;
10. Edition of publications;
11. Whatever other form of collaboration considered necessary to meet the objectives of this Agreement.

### THIRD.-DEVELOPMENT AND MANAGEMENT OF JOINT ACTIVITIES

The development of the activities to be developed jointly between the Parties shall be established through specific Agreements, in which the signatory entities or any other minority holdings shall be able to intervene, directly or indirectly.

The specific Agreements shall refer to this Framework Agreement and, where appropriate, shall establish the economic contributions which are necessary for the adequate development of the project.

ATTESTED

Dr. Ganga bhara Somyaji K S  
Registrar  
Yashwantrao Chavan University  
University Road, Derlakatte  
Bangalore 575 018, Karnataka.

(1)

(2)

#### **FOURTH.- SUPERVISION OF THE EXECUTION OF THE FRAMEWORK AGREEMENT**

A Supervision Committee shall be created to interpret, supervise and control compliance with this Framework Agreement, as well as with the specific Agreements subscribed to during the development of this Agreement. Each party shall designate two of the four members of the Committee, which shall meet at least once a year.

The Committee shall interpret the questions that may arise regarding the content of this Agreement and shall ensure coordination, development, supervision and implementation of the actions set forth therein.

#### **FIFTH.- LENGTH OF THE AGREEMENT**

This Framework Agreement shall remain in force for a period of four years, and may be extended for additional periods by agreement of the Parties, unless otherwise expressed by one of the Parties and communicated at least three months before the expiry date.

The specific Agreements made in the course of this Agreement shall be of the agreed length for each case.

#### **SIXTH.- DISCLOSURE OF INFORMATION**

Any information or publicity resulting from collaboration under this Framework Agreement or the specific Agreements shall include the collaboration between the Parties.

#### **SEVENTH.-TERMINATION**

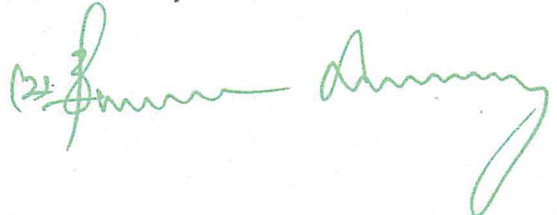
This Framework Agreement may be amended at any time by agreement of all Parties, at request of either party, and may be terminated by any of the following causes:

- a) by mutual agreement;
- b) due to a serious and repeated breach of the obligations under the agreement;
- c) due to a denunciation of any of the Parties in accordance with the seventh clause;
- d) other causes set out in the legislation currently in force.

(1)



ATTESTED

(2) 

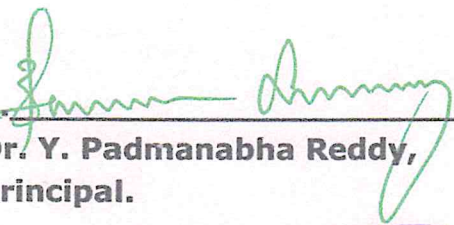
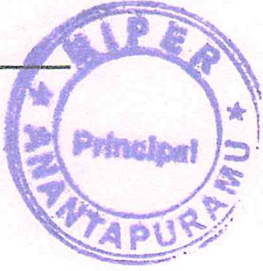
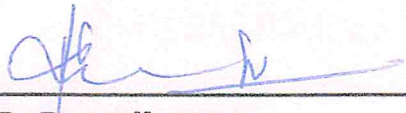
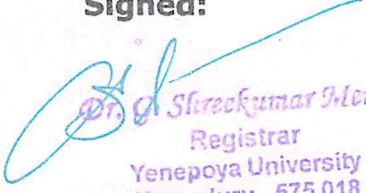
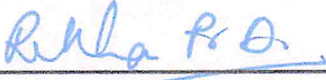
**Dr. Gangadhara Somayaji K S**  
Registrar,  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.

## EIGHTH.- JURISDICTION

This Agreement has a civil nature. Any conflicts that could arise regarding the interpretation and execution of this Agreement will be resolved by mutual agreement and by the Supervision Committee mentioned in the fourth clause.

In any case, disputes concerning the interpretation and implementation of this Agreement which cannot be resolved by the Supervision Committee, shall be settled by the Civil Courts in Mangalore and Anantapur.

IN WITNESS WHEREOF, the undersigned, being duly authorized, sign this Framework Agreement in duplicate, on all the sheets, in the place and on the date mentioned at the beginning of said Agreement.

<b>Raghavendra Institute Of Pharmaceutical Education and Research (RIPER)</b>	<b>Yenepoya University</b>
<p><b>Signed:</b></p> <p>1.  Dr. Y. Padmanabha Reddy, Principal.</p> <p>Date: <u>14.07.17</u></p>  <p>2.  Dr. P. Ramalingam, Director- R&amp;D Division.</p> <p>Date: <u>14/07/2017</u></p>	<p><b>Signed:</b></p> <p>1.  Dr. Shree kumar Menon, Registrar</p> <p>Date: <u>17-07-2017</u></p> <p>2.  Dr. Rekha P. D., Dy. Director- YRC</p> <p>Date: <u>17-07-2017</u></p> <p>Deputy Director Yenepoya Research Ce Yenepoya University, Deralakatte, Mangalore-575</p>

ATTESTED

  
Dr. Gangadhara Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.