

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration	Nature of the activity
1	Research	Bhaskaracharya College of Applied Sciences, University of Delhi	Maulana Azad College	2020-21	4th August to 7th August, 2020	Organization of National Science Series: Igniting Young minds under aegis of Star College Scheme of DBT
2	Research	Dept. of Zoology, Cooch Behar Panchanan Barma University, Panchanan Nagar, Vivekananda Street, Cooch Behar - 736101, West Bengal, India	Prof. Subir Dasgupta and Dr. Hadida Yasmin	2020-21	1st June 2020 to 31st May, 2021	Research
3	Research	Dept. of Zoology, Cooch Behar Panchanan Barma University, Panchanan Nagar, Vivekananda Street, Cooch Behar - 736101, West Bengal, India	Prof. Subir Dasgupta and Dr. Samik Bindu	2020-21	1st June 2020 to 31st May, 2021	Research
4	Research	Department of Pharmaceutical Chemistry, Regional Institute of Pharmaceutical Science and Technology, Agartala 799005	Dr. Subhasis Panda and Dr, Biplab De	2020-21	2nd June 2020 to 31st May, 2021	Research
5	Research	Pharmaceutical Technology Dept., Jadavpur University, Kolkata 700032	Dr. Subhasis Panda and Prof. S.C. Mandal	2020-21	1st June 2020 to 31st May, 2021	Research

6	Research	4 Krishnath Road, Berhampore, West Bengal 742101	Dr. Dipak Kumar Som and Dr. Salil Raha	2020-21	1st June 2020 to 31st May, 2021	Research
7	Research	Jagadis Bose National Science Talent Search, 1300, Rajdanga Main Road Kolkata - 700 107 West Bengal, INDIA	Prof. Maitree Bhattacharyya and Dr. Samudra Prosad Banik	2020-21	1st June 2020 to 31st May, 2021	Research
8	Certificate language course in Arabic, Persian and Urdu	North Bengal University, Darjeeling, West Bengal, PIN - 734013	Dr. Subhasis Panda and Dr. Palash Mandal	2020-21	1st June 2020 to 31st May, 2021	Research
		Post Office, 71D, Mofidul Islam Ln, near Linton Street, Beniapukur, Kolkata, West Bengal 700014	Maulana Azad College and Association SNAP (Social Network for Assistance to People)	2020-21	2nd June 2020 to 31st May, 2021	Academic collaboration

ANNUAL REPORT 2019

❖ **Project Title:**

"Studies on the Silkworm (*Bombyx mori* L) Nourishment level at Larval periods and the Growth thereafter with immune power."

❖ **Project Sanctioned on 21.3.2018.**

❖ **Work Order Received from the Principal, Maulana Azad College, Kolkata on 27.07.2018.**


❖ **Experimental works and Field works carried out on and from :
October 2018**

❖ **Report forwarded by :** The Principal, Maulana Azad College, Kolkata

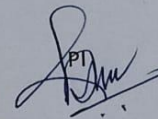
❖ **Report Submitted by :**

1. Dr. Dipak Kumar Som, PI
2. Sri Somdip Majumdar, Co-PI
3. Dr. Salil Raha, Co-PI

Principal
Signature


Convenor,
Research Committee

CONVENOR
RESEARCH BOARD
MAULANA AZAD COLLEGE
KOLKATA - 700013


Principal Investigator
DHESTBT Sponsored Project entitled "Studies
on the silkworm.....with immune power"
of no (Sanc.)ST/PI/S&T/1-G-4/2017 dt. 21.03.2018

Salil Raha
Co-PI
Co-Principal Investigator
DHESTBT Sponsored Project entitled "Studies
on the silkworm.....with immune power"
of no (Sanc.)ST/PI/S&T/1-G-4/2017 dt. 21.03.2018

Savaliya <msmehulsavaliya@gmail.com>, Mitali Shewale <mitali.shewale@somaiya.edu>, MOHANA PRIYA. S <mohanapriya@psgrkcw.ac.in>, Mridul Buragohain <mridulnlp2019@gmail.com>, Mrs. G. Rubadevi <Rubadevi@psgrkcw.ac.in>, Mrs.KARUNANIDHI D <karunamartin78@gmail.com>, N.Aarthi <naarthi@psgrkcw.ac.in>, Nabanita Ghosh <nabanitaghosh89@gmail.com>, NAMRATA DINESH NAGWEKAR <namrata.n@somaiya.edu>, NEELAM KUMARI <neelamncc@gmail.com>, Neeru Bhagat <neeru.bhagat@gmail.com>, Neha <nehasingh1@gmail.com>, Neha k. Baku <nkbaku@vsc.edu.in>, Neha Tusharkumar Patel <nehapatel@vsc.edu.in>, Nehal Dave <nkdave@vsc.edu.in>, Nitika NAGPAL <rajkumar.nagpal@gmail.com>, NIVYA MARIAM Paul <nivyamariampaul@gmail.com>, P. Kanchana <kanchana@psgrkcw.ac.in>, P.Anitha <asam40272@gmail.com>, P.chitra <chithucmg@gmail.com>, P.GOMATHISUNDARI <gomathi.rsg@gmail.com>, Parvathy M <dr.parvathy@mccblr.edu.in>, Prajakta Swapnil kamble <prajakta.k@somaiya.edu>, Praveen Suresh Gupta <praveeng@vsc.edu.in>, PREM LATA MEENA <premlatameena23@gmail.com>, Prof. Purnima Nag <purnima.nag@jnujaipur.ac.in>, Purnima Anand <purnima.anand@bcas.du.ac.in>, R.DHANANBAL <dhanabal.covai@gmail.com>, Radadiya urvesh <urveshradadiya007@gmail.com>, Radhika Tendulkar <radhika.tendulkar@xaviers.edu>, RAJKUMAR S <rajkumarpavitra007@gmail.com>, Ramgopal <ramgopalbelwal@gmail.com>, Ramya Nair <ramya.n@somaiya.edu>, Ranajit Karmakar <rkbnc.2018@gmail.com>, Ravi Ranjan Kumar Ravi <raviranjan@vsc.edu.in>, RAVI S TANK <rstank@vsc.edu.in>, Ruchi Gautam <ruchi.biotech07@gmail.com>, Ruchita Rane <ruchita.r123@gmail.com>, S. Gandhimathy <gandhimathy@psgrkcw.ac.in>, S. Kalaichelvi <kalaizology2014@gmail.com>, S.BeulaAgnes <senhilbeulah@gmail.com>, S.BHUVANESHWARI <bhuvana_bng@yahoo.com>, S.Subanya <sweetsuban@gmail.com>, S.Vijaya <sonekamblevijaya@gmail.com>, S.YUVARANI <syuva2987@gmail.com>, Sachin Bhogal <Sachin.bhogal@chitkara.edu.in>, Salam Sonia Devi <salam.sonia@gmail.com>, Samudra Prosad Banik <samudrapb@gmail.com>, Sanjit Kumar Das <dnskdas@gmail.com>, Sanjukta Manna <sanjukta.manna77@gmail.com>, Saraswathi S <ssdrsaras@gmail.com>, Sarayu Mohana <sarayu124@yahoo.com>, SASIKALA G <gsasikala@psgrkcw.ac.in>, Selvanayaki M <selvim@psgrkcw.ac.in>, Shailja Singh <shailjadu@gmail.com>, SHALINI RAI <shalini.rai@kcccollege.edu.in>, Sharma Priyanshi <wwwsharmaomkar225@gmail.com>, Sheeba L <sheeba@psgrkcw.ac.in>, Shikha Srivastava <shikhaminty@gmail.com>, Shital Sonawane <shital.sonawane@somaiya.edu>, SHIVANI G VARMANI <shivani.varmani@gmail.com>, Shivani Tank <shivanitank7@gmail.com>, Shuchi Dhingra <shuchi.dhingra@gmail.com>, Shvetambri <shvetambri@psgrkcw.ac.in>, Shweta Bhatt <sabhath@vsc.edu.in>, Siddharth Bedi <siddharth.bedi@chitkara.edu.in>, Sonali <govindesonali@gmail.com>, SUJIT KUMAR BHOWAL <suji.sb@gmail.com>, Supriya Janbandhu <supriya.j@somaiya.edu>, Suvarna Sharma <suvarna.sharma@kcccollege.edu.in>, Thesiya Chirag Girdharbhai <chiguthesiya@gmail.com>, Tushar Borse <thbvsbt@gmail.com>, Uma Dhawan <uma.dhawan@bcas.du.ac.in>, V DEEPA <deepa@psgrkcw.ac.in>, V.Santhana Lakshmi <santhanalakshmi@psgrkcw.ac.in>, Vaishali Pingle <pinglevaishali10@gmail.com>, Vandana Sabharwal <vandanasabharwal25@gmail.com>, Vandana Sahayog Jamdar <vandana.jamdar@somaiya.edu>, Varsha Singh <varshasingh213@gmail.com>, Vasandha S <deanstudentaffairs@psgrkcw.ac.in>, VIJAYAKUMAR S <sow.vijayakumar@gmail.com>, Viral Has mukhrai Kariya <viral.kariya@atmiyauni.ac.in>, Yamini Agrawal <yaminiagrawal04@gmail.com>

Dear Participants

Welcome to **National Science Series: Igniting Young Minds** (August 4-7, 2020) being organised by **Bhaskaracharya College of Applied Sciences, University of Delhi**, in Collaboration with KET's V.G. Vaze College of Art, Science and Commerce, Mumbai, Maulana Azad College, Kolkata, Mehr Chand Mahajan DAV College for Women, Chandigarh, PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu and Sh. Manibhai Virani and Smt. Navalben Virani Science College, Rajkot, Gujarat, under the aegis of Star College Scheme, DBT, Govt. of India. We have received a tremendous response from you and thank you all for that.

Kindly find the zoom link for Day 2 event (August 5, 2020) which will begin 1:30pm. Those who are not able to join through Zoom link (maximum limit 100 participants), You Tube live streaming link is also provided below.

Zoom link for August 5, 2020

Dr. Ruchi Gulati Marwah is inviting you to a scheduled Zoom meeting.

Topic: Dr. Ruchi Gulati Marwah's Zoom Meeting

Time: Aug 5, 2020 01:30 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

<https://us02web.zoom.us/j/84546033512?pwd=c2l0VUdsWW5oSIB2SDR4YmVPOFFtUT09>

Meeting ID: 845 4603 3512

Passcode: 752762

Annexure-III


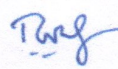
COOCH BEHAR PANCHANAN BARMA UNIVERSITY
Vivekananda Street, Cooch Behar, India

SEMINAR REPORT FOR PHD REGISTRATION

1. Name of Candidate Torisa Roy
2. Department Zoology
3. Title of the Thesis
A Study of the anti-inflammatory and wound healing properties of certain medicinal plants used by Rajbanshi community of Cooch Behar, West Bengal, India
4. Venue and date of the seminar held Dept. of Zoology, Cooch Behar. Date: 12.02.2021
5. Date of Notification of seminar 08.02.2021

We certify that the above candidate has successfully defended her PhD registration synopsis seminar in the Department of Zoology on Dept. of Zoology at 3.00pm. in both offline and online mode. Google link for attending the open pre-registration seminar is <https://meet.google.com/eza-mxoh-pue>.

Members of the RAC & DRC present during the viva voce

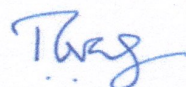
- Dr. Hadida Yasmin, Dept. of Zoology, CBPBU (Principal Supervisor) 
Prof. Tapas Nag, AIIMS, New Delhi (Co-Supervisor)- via google meet 
Prof. Jogen C Kalita, Guwahati University (External Member)- via google meet —
Prof. Subir Dasgupta, Maulana Azad College (External Member)- via google meet —
Prof. Pradip K Kar, CBPBU (Internal Member) —
Dr. Samik Bindu, CBPBU (Internal Member) —

Dr. Hadida Yasmin
Supervisor
Department of Zoology
Cooch Behar Panchanan Barma University



Dr. Subir Chandra Dasgupta
Professor (P & S & S)
Department of Zoology
Maulana Azad College
Howrah, West Bengal

Abstract of the proposed Research work/ Thesis (within 500 words) - Attached


19/2/2021



डॉ. तापस चन्द्र नाग
Dr. T. C. Nag
आचार्य/Professor
शरीर रचना विभाग/Department of Anatomy
अ.भा.आ.सं., नई दिल्ली-29/A.I.I.M.S., New Delhi-29

9654 215492

GOVERNMENT OF WEST BENGAL
DEPARTMENT OF HIGHER EDUCATION,
SCIENCE & TECHNOLOGY AND BIOTECHNOLOGY
(SCIENCE & TECHNOLOGY BRANCH AND BIOTECHNOLOGY BRANCH)
VIGYAN CHETANA BHAVAN
DD-26/B, SECTOR I, SALT LAKE, KOLKATA-700 064

GUIDELINES FOR R & D PROJECT
Under Call for proposals

About the Scheme:

The Department of Higher Education, Science and Technology & Biotechnology, Government of West Bengal has a scheme on "Research and Development Programmes" which is being implemented throughout the State of West Bengal with an aim to sustainable socio-economic development in the field of Science and Technology. Through this scheme introduction of new technologies and significant modification of the existing technologies with justification to expand knowledge, technology, awareness, skill, income, health and overall quality of life of the people of the State are welcome.

1. NATURE OF PROJECTS SUPPORTED UNDER THE SCHEME:

i) Studies & Survey related to science & technology:

Financial support is offered for carrying out basic and applied scientific research/studies/survey that include techno-economic analysis, simulation, modeling and studies etc. and development of State S & T database, S&T policy issues, specific status reports, etc.

ii) Research & Technology development for micro planning:

Funding support for S&T related R&D programmes in newly emerging & challenging areas of science & engineering and for development oriented location specific research and technology development that will help in micro planning purpose of the state.

iii) Lab to land pilot scale demonstration projects:

Pilot scale demonstration projects including field trials etc. based on technologies developed by S&T Agencies/ Institutions/ Laboratories/ NGOs related to needs of the state.

iv) Joint programming with other organizations:

To develop and support specific joint programmes focussing on multi-sectorial area based approach to rural/regional development in co-operation with multiple central and state institutions, universities, etc. These areas must be identified where scientific intervention can significantly improve the socio-economic conditions.

v) Replication efforts for successful models:

Replication of already successful projects in other interested districts/areas based on successful experiences of S&T organization/ agency.

vi) Development of tools for training programmes and awareness development:

DHESTBT, GOWB encourages development of tools (technical) for the awareness and training on specific innovative technologies, in the form of packages that require S & T inputs for the betterment of livelihood, ecological conservation and sustainable socio-economic development.

2. COMPREHENSIVE GUIDELINES FOR FORMULATING PROJECT PROPOSALS:

- i)** The project proposal should clearly identify and establish linkages of S&T for overall development of the state. The identified areas (as per the following list of subjects) should have potential to contribute in socio-economic development of the state.
- ii)** DHESTBT, GOWB encourages proposals generated through consultative approaches. Preliminary proposals providing brief information on concept, idea, proposed activity etc. may be brought to the concerned officer/scientist of the Department. These preliminary proposals can be further improved through discussion, expert advice, etc. if needed.
- iii)** Objectives of the R & D proposals should be limited to a few specific outputs, which could be possible in duration of twelve months to thirty-six months.
- iv)** During writing any proposal, scientific and technical details must be clearly narrated.
- v)** It is better if results of ongoing and completed projects of the organization are reflected in formulation of new proposals.
- vi)** Proposals should have specific, concrete, quantifiable objectives for sustainable development and human welfare.
- vii)** The proposals should be based on innovative ideas. Major programmes of extension based on proven technologies are also considered for support.
- viii)** The Proposals on other inter-disciplinary category should have specific applications & linkages with science & technology.
- ix)** Hard copy and soft copy of photographs and final report must be submitted immediately after completion of the project.

LIST OF BROAD CATEGORY OF SUBJECT AREAS UNDER THE SCHEME:

- A) PHYSICAL SCIENCES**
- B) CHEMICAL SCIENCES**
- C) ENGINEERING AND TECHNOLOGY**
- D) MEDICAL SCIENCES INCLUDING PUBLIC HEALTH**
- E) EARTH SCIENCES INCLUDING GEOINFORMATICS**
- F) MATHEMATICS**
- G) ENERGY AND ALLIED SCIENCES**
- H) BIOLOGICAL SCIENCES INCLUDING BIOTECHNOLOGY**
- I) AGRICULTURE, ANIMAL AND FISHERY SCIENCES**
- J) ENVIRONMENT, ECOLOGY AND CLIMATE CHANGE**
- K) OTHER INTER-DISCIPLINARY**

3. WHO CAN APPLY?

The projects are being supported at universities, colleges, reputed research organisations, academic institutes, etc.)

All correspondence, including proposals may be delivered/sent to the following address:

**JOINT SECRETARY (SCIENCE & TECHNOLOGY)
DEPARTMENT OF HIGHER EDUCATION, SCIENCE & TECHNOLOGY AND BIOTECHNOLOGY
GOVERNMENT OF WEST BENGAL
VIGYAN CHETANA BHAVAN
DD-26/B, SECTOR-I, SALT LAKE, KOLKATA-700064**

4. GENERAL TERMS AND CONDITIONS:

- i. The proposals shall only be considered if it is a primary research and is done in the state of West Bengal.
The Principal Investigator (P.I) or Co-P.I(s) must be attached to the organization/ institution (which can receive the fund) situated in the state of West Bengal only.
- ii. The proposals are initially considered for approval/ rejection by "Project Evaluation Committee" of DHESTBT. The Department may seek any expert's opinion on the merit of project if required.
- iii. New proposals from those P.Is who have not furnished the final completion report and Utilisation Certificate (U.C) & audited Statement of Expenditure (S.o.E) of the earlier projects funded by this Department are not allowed to submit new project for funding.
- iv. All kinds of technology sources, references to quotations, annotations, etc. are to be clearly mentioned in the project proposal.
- v. No engagement in DHESTBT sponsored project is permanent. Any engagement (SRF & JRF only) under the project shall strictly be contractual and temporary in nature and will cease automatically as soon as the project is terminated. The manpower (SRF & JRF only) engaged (if any) for the project should be paid remuneration as per the latest rules and guidelines of the DHESTBT, Government of West Bengal (vide Annexure III).
- vi. International travel is NOT permissible under the project. Air travel is normally not permitted. In some special cases if air travel is essential, written permission must be obtained before travel from the Principal Secretary DHESTBT, GOWB showing necessary reasons and justifications.
- vii. In case of any multi-institutional collaborative project, formal agreement documents along with details of activity/ role/ equipment shared among the collaborating institutions/ scientists should be submitted to the Department.
- viii. The Nodal Institution referred in the sanctioned project proposal assumes financial and other administrative responsibilities of the project. All the corresponding communications regarding purchase/recruitment/travel/IPR/publications will be the responsibility of the Nodal Institution.
- ix. DHESTBT, GOWB encourages to maximize the use of equipments which are to be strictly kept within the institution when not in use/ after the completion of the project. Investigator should permit the use of spare of idle capacities of any equipment procured under the project by bonafide users within the Institution only. In general, cost of equipments should not exceed Rs. Five lakhs. Necessary quotations for consumables & equipments need to be submitted as applicable.
- x. Intellectual Property Rights arising out of the R & D Project work (if any) should be intimated to this Department and should be filed jointly in the credit of the Department of Higher Education, Science & Technology, Biotechnology and the implementing organisation. The sharing of royalty with respect to the IPR (if any) should be settled between the institution and this Department through MoU, which is to be signed prior to the commencement of the project.
- xi. DHESTBT, GOWB must be acknowledged in all the publication made using the data/ results/ study of the funded project.
- xii. Violation of the above mentioned rules in respect of IPR, publication matter, etc. while making the Department a legal partner shall be considered as a serious offence.
- xiii. Overhead Charges are not permissible.
- xiv. Bank details of the institution/ organisation are to be furnished (vide Annexure IV).
- xv. Ethical approval need to be submitted if the project involves humans or animals.
- xvi. Whether the project has already been submitted elsewhere for grant, must also be mentioned.

- xvii. The PI is essentially required to declare that the project proposal (during submission time) is original and not a plagiarized one.
- xviii. Progress Reports (interim as well as final) are to be compulsorily submitted and the reports are to be signed by the PI & all Co-PIs. The said reports are to be countersigned/ authenticated by the Head of the Institution and this is mandatory. After completion of the project, the PI is also required to declare that the work done (along with the progress reports and final report) is original and not a plagiarized one.
- xix. Age limit: The upper age limit of the PI who must be a working employee of the concerned Institution should not exceed 65 years in general.

5. ENCLOSURES REQUIRED TO BE SUBMITTED WITH THE PROPOSAL:

- i. Certificate from Principal Investigator and all Co-Investigators (Annexure-I).
- ii. Endorsement from the Head of the Institution on Letterhead (Annexure-II).
- iii. 5 hard copies of details of the proposal along with 5 copies of abstract of the proposal.
- iv. A soft copy of the entire proposal must be submitted along with the hard copy.
- v. Undertaking and/ or MOU (as applicable) from the P.I and Co-PI(s) on Patent and IPR sharing with DHESTBT, GOWB as mentioned under general terms and conditions.
- vi. Bank details are to be furnished as per the attached format (Annexure-IV).
- vii. Bio Data of PI and all Co-PIs as per prescribed format (Annexure-V).

6. Instruction related to filling up the proforma:

- I) Please type as per the layout given in the format. Text of the R&D Project Proposal may be typed in Times New Roman/ Calibri /Arial / Verdana Font of 11/12 pt.
- II) Please use papers of A-4 size (21cms x 29 cms).
- III) Please do not skip reproduction of any answer as "NIL" or "Given elsewhere".
- IV) Project title should be precise and specific & normally should not exceed 20 to 24 words within two lines.
- V) Expected total duration of the project should normally be 12-36 months.
- VI) If project is to be executed by more than one Institution and/or requires regular inputs from other Scientists, names of collaborating Institutions/Scientists/S & T bodies must be listed.
- VII) Use telegraphic language to the maximum extent possible for objectives, work plan, methodology, expected outcome, etc.

We agree to the terms and conditions of DHESTBT as stated above.

Signature: *Samik Bindu*

Date: 20/4/17

Name of Principal Investigator:

Dr. Samik Bindu

Signature: *Sheen*

Date: 28/4/17

Name of Head of the Institution:

Prof. Syamal Roy
Vice Chancellor

Cooch Behar Panchanan Barma University
Cooch Behar-736101, West Bengal

d. Travel:

- i) Local travel will include different areas of in-and-around Cooch Behar and other parts of North Bengal for gathering information and collecting sample. For the remote places hired vehicle will be used. TA and DA for the JRF will also be incurred from the travel fund.
- ii) Outstation Travel within India- Since the collaborators are from southern part of West Bengal frequent travel to those labs to carry out research will be needed. The research scholar also needs to travel to various institutes across the country to for library work and for using instruments not available at the home institution. Moreover, they will also attend seminar and conferences for presenting papers/posters at different institutes of the country.

e. Others:

- i) Maintenance of Culture room and small instrument- Mammalian cell culture facility should be maintained in well-regulated conditions of temperature, humidity, air circulation etc.
- ii) For lab safety and public health necessary measures should be taken by procuring lab coats, gloves, masks, UV-protected glasses, fire extinguishers and animal experiments surgical instruments (scissor, forceps, suture needle, suturing thread etc) will be required.
- iii) Purchase of printer, scanner, papers, etc is needed.
- iv) Charges for availing instrument/research facility at different institutes- Currently due to lack of facility at the home institution to for using high-end instruments different research institutes/Universities will be approached. Most of the institutions have fixed charges for using each instrument.

• **Non-Recurring:**

Permanent Equipments/Instruments:

- i. **Laminar Flow and Biosafety cabinet:** These facilities are quintessential for bacterial and mammalian cell culture respectively. For cloning experiments and other cell biological experiments sterilized and aseptic conditions are mandatory. These are the basic facilities required for all molecular and cell biology experiments that can be used in future. These can be considered as assets of the department as they can be used for all kinds of future cell and molecular biology research in the University.
- ii. **CO₂ Incubator:** CO₂ Incubator is required for maintaining mammalian cell under sterile thermo-regulated and humidified condition with optimal pH. Without this facility cell culture would not be possible.
- iii. **-20°C Freezer:** Low temperature freezers are essential for any cell and molecular biology research. It will be used to store all the important chemicals, molecular biology kits, enzymes, nucleic acid that are to be meant for storing at ultralow temperatures for maintaining efficacy and longevity of the products.

Attachments:

- 1) Detailed list of publication (books and papers/articles in standard referred national and international journals).
- 2) List of patents and their present status.
- 3) A soft copy of the entire proposal.
- 4) Annexure I & II

I declare that I shall abide by all the rules of the Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal regarding financial assistance to R & D project and shall acknowledge the funding authority in all publications made out of the sanctioned project. I shall also make the Department of Science and Technology, Government of west Bengal, a legal partner in all the patents generated out of the sanctioned project.

Dr. Samik Bindu
Assistant Professor
Department of Zoology
CoochBehar Panchanan Barma University
Vivekananda Road, CoochBehar - 736101 (W.B.)

Samik Bindu
Dr. Samik Bindu
Assistant Professor, Dept. of Zoology
Cooch Behar Panchanan Barma University
Principal Investigator

Date 20/4/17
Place Kolkata

Subir Chandra Dasgupta
21.6.17

Prof. Subir Chandra Dasgupta
Head, Dept. of Zoology, Maulana Azad College
Co-Principal Investigator

Dr. Subir Chandra Dasgupta
Professor & Head (W.B.S.E.S.)
Department of Zoology
Maulana Azad College
Govt. of West Bengal

Date
Place Kolkata

DR. CHINMAY PAL
Assistant Professor
Department of Chemistry
GOBARDANGA HINDU COLLEGE
WEST BENGAL - 743273

Chinmay Pal 21/4/17
Dr. Chinmay Pal
Assistant Professor, Dept. of Chemistry
Gobardanga Hindu College, West Bengal
Co-Principal Investigator

Date 21/4/17
Place Kolkata

Sheen 28/4/17
Prof. Syamal Roy
Vice Chancellor
Cooch Behar Panchanan Barma University
(Signature of the Head of the Institution with official seal)

Vice Chancellor
Cooch Behar Panchanan Barma University
Cooch Behar-736101, West Bengal

Date
Place Cooch Behar

To
The
Principal Secretary
Faculty of Engineering and Technology
Jadavpur University
Kolkata -700032

Subject: Propose PhD viva date of Mr Partha Pratim Maiti thesis entitled "Scientific Exploration of a Traditionally Used Medicinal Plants in Rural Bengal for the Management of Inflammation"

Name of the Candidate Mr Partha Pratim Maiti

Sir

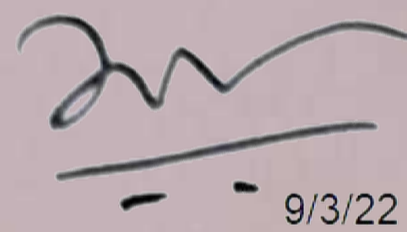
This is to inform you that, we have formally discussed with the expert, Prof. (Dr.) Chowdhury Habibur Rahman, Department of Botany, Visva Bharati University, Santiniketan -731235 for the proposed viva date of Mr. Partha Pratim Maiti on 24th March 2022 at 12.30 PM. The venue for PhD viva is: Pharmacognosy and Phytotherapy Research Laboratory, 1st Floor of the Pharmaceutical Technology Department, Jadavpur University, Kolkata -700032.

This is our necessary information for your immediate action please.

Thanking you

Yours sincerely

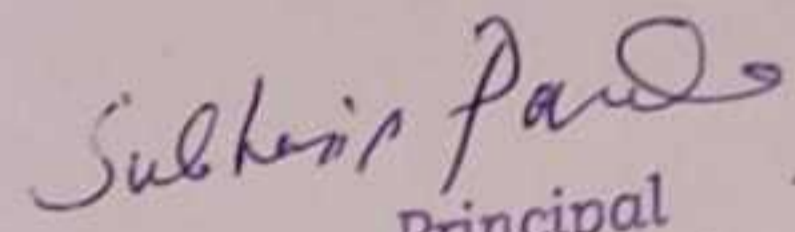
1. Prof.(Dr.) Subhash C Mandal,
Dept of Pharm Tech. J.U. Kolkata -700032



9/3/22

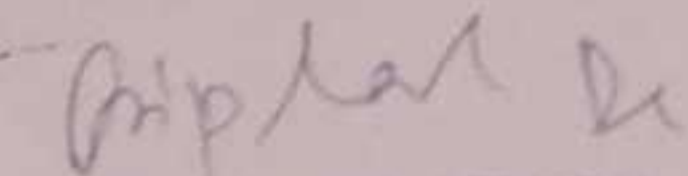
Prof. (Dr.) Subhash C Mandal
Professor
Dept. of Pharmaceutical Technology
Jadavpur University
Kolkata-700 032, India

2. Dr. Subhasis Panda, Principal, Government
General Degree College, Chapra, Village -Shikra,
P.O-Padmamala, Nadia -741123, West Bengal.



Principal
Govt. General Degree College, Chapra
Vill.-Shikra, P.O.-Padmamala
Nadia-741123

3. Dr. Biplab De, Associate Professor,
Department of Pharmaceutical Chemistry,
Regional Institute of Pharmaceutical Sciences
and Technology, Agartala-799005.



DR. BIPLAB DE
Associate Professor
RIPSAT (Govt. of Tripura)
Agartala-5



UNIVERSITY OF CALCUTTA
SENATE HOUSE

87/1, College Street, Kolkata – 700 073

Registrar
University of Calcutta

Phone : 33-22196630

Letter No – CU/OL/TS/0610

Dated: 15th September, 2021



To Whom It May Concern

This is to certify that **Ahana Das** of 25, Lake Place, Kolkata - 700029, bearing ID EPIC/ Voter Card No UVL1962232, has submitted a thesis entitled –

"Studies on the effect of trehalose on secretion and stability of aggregation prone globular proteins"

On 15th September, 2021, under Ph.D regulations, 2009 of University of Calcutta for consideration of the University for the award of the Ph.D degree in –

Biochemistry

Name of the Supervisor – Prof. Samudra Prasad Banik

Name of the Joint Supervisor – Prof. Maitree Bhattacharyya

Registrar
University of Calcutta

To
The
Principal Secretary
Faculty of Engineering and Technology
Jadavpur University
Kolkata -700032

Subject: Propose PhD viva date of Mr Partha Pratim Maiti thesis entitled "Scientific Exploration of a Traditionally Used Medicinal Plants in Rural Bengal for the Management of Inflammation"

Name of the Candidate Mr Partha Pratim Maiti

Sir

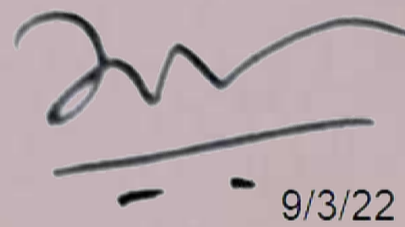
This is to inform you that, we have formally discussed with the expert, Prof. (Dr.) Chowdhury Habibur Rahmaan, Department of Botany, Visva Bharati University, Santiniketan -731235 for the proposed viva date of Mr. Partha Pratim Maiti on 24th March 2022 at 12.30 PM. The venue for PhD viva is: Pharmacognosy and Phytotherapy Research Laboratory, 1st Floor of the Pharmaceutical Technology Department, Jadavpur University, Kolkata -700032.

This is our necessary information for your immediate action please.

Thanking you

Yours sincerely

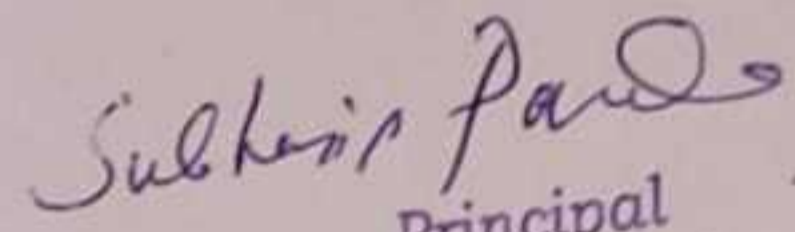
1. Prof.(Dr.) Subhash C Mandal,
Dept of Pharm Tech. J.U. Kolkata -700032



9/3/22

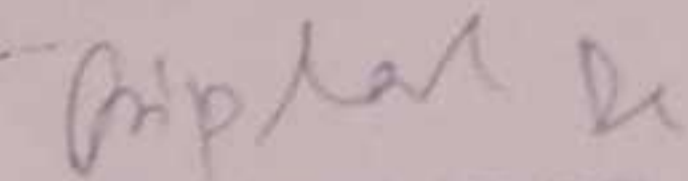
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Professor
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Nadia-741123

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and Technology, Agartala-799005.

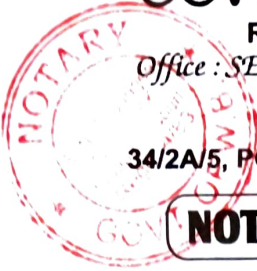


DR. BIPLAB DE
Associate Professor
RIPSAT (Govt. of Tripura)
Agartala-5

S.L. NO. 03 Date 28/09/2020

S. N. CHATTERJEE, NOTARY

GOVT. OF WEST BENGAL



REGISTRATION NO. 4/1983
Office : SEALDAH CIVIL COURT COMPLEX
3rd Floor
Residential Address :
34/2A/5, POTTERY ROAD, KOLKATA - 700 015

NOTARIAL CERTIFICATE

PURSUANT TO SECTION 8 OF THE NOTARIES ACT 1952

TO ALL MEN THESE PRESENTS SHALL COME, I SAILENDRA NATH CHATTERJEE practising a NOTARY PUBLIC in the District of 24 PARGANAS of state of West Bengal within the Union of India, do hereby declare that the Paper riting collectively marked 'A' annexed hereto, herein-after called the Paper Writings 'A', are presented before me by the executants (s).

*Maulama Azad college
Kolkata, West Bengal.*

hereinafter refered to as the "executant(s)" on this, the
28th day of *Sep* Two thousand *Twenty*

The "executant(s)" having admitted the execution of the "Paper Writings A" in respective hand(s) in the presence of the witnesses, who as such-subscribe(s) signature(s) thereon, and satisfied, as to identity of the executants(s), and the said execution I have attested the execution of the "Paper Writing A" and testify that execution is in the respective hand(s) of the executant(s).

AN ACT WHEREOF being required of Notary Public, I have granted THESE PRESENTS as my NOTARIAL CERTIFICATE to serve and, avail as need and occasion shall may require.



IN FAITH AND TESTIMONY WHERE OF I the said Notary, have hereunto set and subscribed my hand and affixed my Notarial seal of Office at Sealdah in the District of 24-Parganas on this the day

28th of *Sep* To thousand *Twenty*

Notarial Stamp on Original
S. N. CHATTERJEE
Advocate & Notary Public
Govt. of West Bengal
Regd. No.- 4/83
Civil Court Complex at Sealdah
Kolkata - 700 014

28 SEP 2020

S. N. CHATTERJEE
NOTARY
S. N. CHATTERJEE
Advocate & Notary Public
Govt. of West Bengal
Regd. No.- 4/83
Civil Court Complex at Sealdah
Kolkata - 700 014

भारतीय गैर न्यायिक

दस
रुपये
रु.10



TEN
RUPEES
Rs.10

INDIA NON JUDICIAL

पश्चिम बंगाल WEST BENGAL
SEAL

34AB 816420
GOVT. OF W.B.

NOTARY
SEAL

Memorandum of Understanding (MOU) between Maulana Azad College, Kolkata, WEST BENGAL, and Association SNAP for jointly organizing the Certificate language courses in Arabic, Persian and Urdu. This is a non-profit initiative for the promotion of history, culture and communal harmony through learning the abovementioned languages.

This MOU is prepared in India and signed at the respective places and at the respective dates as mentioned herein between:

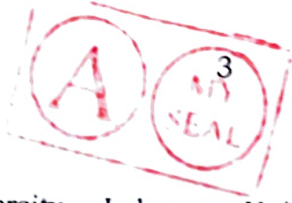
Maulana Azad College, one of the most reputed Government Colleges in West Bengal, was set up in 1924, (earlier known as the Islamic College), with an objective to promote Islamic learning and general education among the Muslim population in British India and with the sustained efforts of contemporary education minister of Bengal.

Sakir Hameed

S. H. CHATTERJI
Advocate & Notary Public
Res. No. 4/33
Civil Court Complex at Sealdah
Kolkata - 700 014
28 SEP 2020

forward to lead a public discussion on the findings of the report and called for the wide public action. Association SNAP has been partnering with MA & ME, and Dept of Labour for the past several years. Among the academic collaborators, SNAP has worked with the

Complex at Sealdah
Kolkata - 700 014
28 SEP 2020



Presidency University, Jadavpur University, St. Xavier College, Institute of Development Studies Kolkata (IDSK), Aliah University, AMU, etc.

Association SNAP is a registered society under the West Bengal Societies Registration Act XXVI of 1961. SNAP Academy conducts coaching for civil service aspirants, career counseling sessions, and skill-based trainings for several years now.

Background of the Initiative:

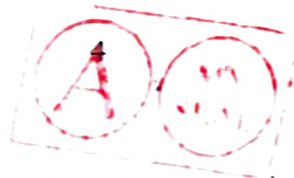
Association SNAP realized the importance of learning Arabic, Persian and Urdu while implementing several projects aimed at understanding the lives of minorities, in Kolkata as part of their initiative called 'Know Your Neighbor' (KYN). The work involves visits to several heritage sites and archives. As most of the archival materials and inscriptions are written in the above mentioned languages, participants mostly research scholars, professors, writers urged SNAP to initiate language courses in the above mentioned languages. SNAP approached Maulana Azad College for the following objectives: designing the course curriculum and faculty support undertaking classes. Both the Institute's have agreed to enter into an Understanding to start the Certificate courses in the above mentioned languages.

Aim: The overall objective of the language course is to equip the participants to read and understand the original works and inscriptions in those languages. Their learning will be contributed to research work for promoting scientific inquiry into past, peace, and communal harmony in West Bengal. The specific objectives as follows: a) participants learn basic proficiency in reading, writing, and speaking and conversation, b) participants understand and

Sabir Ahamed

28 SEP 2023

Stamp: CIVIL SERVICE EXAMINATIONS, Kolkata - 700 014



underscore the importance of these languages in the development of other Indian languages like Bengali, Hindi, etc c) it is expected that the employability of the participants increased in research works and translation work.

Deliverables of the MOU

1. Designing the course curriculum: Both the parties will jointly develop the course curriculum for the six month basic courses language courses. Both parties have the right to review the course curriculum. MAC as an academic institute will contribute to the academic aspect of the course.
2. Participants for the course will be drawn through a public announcement on MAC's website and social media platform.
3. SNAP will organize the online facilities for the delivery of the classes from its own premises at 183B Park Street, Kolkata - 700016. The class will be held once a week (Saturday or Sunday).
4. SNAP will bear the cost of logistics including studio cost, internet, and digital equipment, and digital channel (Zoom) required for online classes. The cost also includes refreshments for faculty, technical assistance, and travel cost for faculty, course coordinators, etc.
5. To meet the above expense, SNAP will charge Rs.1000 from each participant, and some scholarships will be awarded to needy and interested candidates.
6. MAC will issue certificates jointly with Association SNAP (SNAP Academy) after the successful completion of the course by the participants. MAC will take the lead role in the evaluation of the participants' academic performance.

Sabin Ahmed

28 SEP 2020

S. N. CHATTERJEE
Advocate & Notary Public
Govt. of West Bengal
Kolkata - 700016
Civil Court Complex at Sealda
Kolkata - 700014



- 7. MAC and SNAP will jointly organize a certificate giving ceremony at the college premise.
- 8. There will be no financial implication for MAC in any manner for the execution of the language course.
- 9. Any amendments to this contract shall be subject to the approval of both parties and shall be produced in writing, and thereafter it will always be read as part or continuation of this Contract.

BOTH THE PARTIES HERETO HAVE UNDERSTOOD AND ACCEPTED THE CONTENTS OF THIS CONTRACT AND HAVE SIGNED HERewith IN WITNESS & RECOGNITION OF THE SAME ON THE RESPECTIVE DAY AND PLACE AS MENTIONED AGAINST THEIR NAMES:

Principal
Maulana Azad College

Sabir Ahamed
Secretary
Association SNAP



ATTESTED BY ME

ATTESTERJEE
NOTARY
No-4/83

28 SEP 2020

THE 28th DAY OF Sep

2020



28 SEP 2020

PAPER RITINGS "A"
&
THE RELATIVE NOTARIAL
CERTIFICATE

S. N. CHATTERJI
Advocate & Notary Public
Govt. of West Bengal
Regd. No. - 4/83
Civil Court Complex at SealDAH
Kolkata - 700 014

S. N. CHATTERJI
Advocate & Notary Public
Govt. of West Bengal
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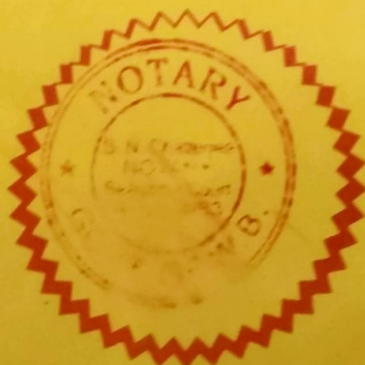
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S. N. Chatterjee

12 8 SEP 2020

NOTARY PUBLIC
GOVT. OF WEST BENGAL
REGISTRATION NO. 4/83
CIVIL COURT AT SEALDAH, 3rd FLOOR
KOLKATA-14

Residential address :-
34/2A/5, POTTERY ROAD, KOLKATA - 700 015
PHONE : 2329-0394



KNOWLEDGE IS POWER