



CAMPUS: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, Dist.-Paschim Burdwan (W.B), India  
☎ 0343-2532679/0343-2532678, ✉ bcrp\_dgp@yahoo.co.in

Ref. No: BCRP/Workshop/2025/2049

To

Date: 15/12/2025

The Additional Secretary to the Govt. of West Bengal  
Department of Science and Technology and Biotechnology  
Govt. of West Bengal  
Kolkata, West Bengal, India

**Subject: Submission of Proposal for 2 days Workshop on “Popularising Health Science through Ethical and Humane Preclinical Animal Research: A Hands-on Workshop”**

Dear Sir

With reference to the subject cited above, we hereby submit the enclosed proposal for a 2-day Science Popularization Workshop entitled “Popularising Health Science through Ethical and Humane Preclinical Animal Research: A Hands-on Workshop”, proposed to be organized at Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur, West Bengal. This science popularization initiative is designed to disseminate contemporary knowledge on ethical and humane preclinical animal research among students, early-career researchers, teachers, and young scientists. The programme aims to promote public understanding of health science, ethical research practices, and animal welfare, while encouraging responsible scientific inquiry and societal engagement. The workshop will combine expert lectures, hands-on demonstrations, interactive sessions, and discussions to simplify complex concepts related to laboratory animal science and ethics. Upon completion of the workshop, participants will develop enhanced awareness and practical understanding of ethical animal care, regulatory frameworks, and humane experimental techniques, thereby strengthening the scientific temper and ethical consciousness of future pharmacologists, veterinarians, and biomedical researchers.

We therefore request your kind consideration and financial support for organizing this 2-day Science Popularization Workshop, as detailed in the enclosed proposal, under the Science Popularization initiatives of the Department.

Thanking you

Yours Sincerely

*Yadu Nandan Dey*

Dr. Yadu Nandan Dey  
Coordinator & Professor (Pharmacology)

*Saroj Singhmura* 14/12/25  
Saroj Singhmura  
Joint Coordinator & Assistant Professor

*T. Sagarika Deepthy* 14/12/25  
Dr. Sagarika Deepthy Tallapragada  
Joint Coordinator & Assistant Professor

Forwarded by

*Prof. (Dr.) Samir Kumar Samanta*  
Principal  
15.12.25

Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal





**Government of West Bengal**  
**Department of Science & Technology and Biotechnology**  
**Vigyan Chetana Bhawan, Block-DD, Plot 26-B, Sector-I**  
**Salt Lake, Kolkata-700064**

**Application Format for Science Popularization Programme**

1. **Programme Type:** Health and Hygiene (12)
2. **Title of the proposed Programme:** Popularising Health Science Through Ethical and Humane Preclinical Animal Research: A Hands-on Workshop
3. **Target Group:** Faculty, Teacher, Scientist, Research Scholar, College/University Student
4. **Duration (days):** 2 days (Tentative Dates of the proposed Programme: 9<sup>th</sup>-10<sup>th</sup> March, 2026)

5. **Aims, Objectives and Details of the Programme:**

Animal-based research plays a pivotal role in advancing biomedical science, drug discovery, and public health. However, the ethical conduct of preclinical studies and the humane treatment of laboratory animals remain essential for ensuring the credibility, reproducibility, and social acceptability of scientific outcomes. Public understanding and acceptance of animal experimentation depend strongly on transparent communication, ethical awareness, and responsible research practices among the scientific community.

In alignment with the Science Popularisation Programme, this workshop is designed to bridge the gap between scientific research and societal awareness by promoting informed understanding of why and how animals are used in research, the regulatory safeguards that protect animal welfare, and the scientific principles that guide ethical experimentation. By engaging students, researchers, veterinarians, and biomedical professionals through interactive lectures and hands-on demonstrations, the programme aims to disseminate knowledge, raise public scientific literacy, and encourage compassionate, responsible use of animals in preclinical studies. Through this initiative, the workshop contributes to building a scientifically empowered society that supports ethical research for improved human and animal health outcomes.

**Aim**

- To promote scientific awareness and responsible research culture by enhancing understanding and practical competency in ethical and humane preclinical animal experimentation under national and international regulatory guidelines.

**Objectives**

- To create awareness about the ethical significance and societal importance of humane animal research in scientific and health advancements.



- To provide hands-on training in laboratory animal handling, care, anesthesia, analgesia, and refinement techniques to ensure animal welfare.
- To familiarise participants with regulatory frameworks and guidelines such as CCSEA and the principles of the 3Rs (Replacement, Reduction, Refinement).
- To foster empathy, responsibility, and scientific integrity among young researchers and professionals through experiential learning and dialogue.

**6. Name, Designation, Postal Address, Mobile No. and E-mail ID of the Programme Coordinator (PC) (only one)** (attach separate sheet, if necessary):

Prof. (Dr.) Yadu Nandan Dey,  
Professor and Divisional In-Charge  
Pharmacology Division  
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences  
Dr. Megnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal, India  
Mobile: 7566232359  
Email: [yadunandan.dey@gmail.com](mailto:yadunandan.dey@gmail.com), [yadunandan.dey@bcrp.org](mailto:yadunandan.dey@bcrp.org)

**7. Legal status of the Institute:**

College

**8. Date-wise detailed Programme Schedule:**

The workshop will be spread over the intensive days, combining theoretical lectures, interactive discussions, hands-on practical sessions, and competency assessments using the Direct Observation of Procedural Skills method for critical techniques.

Day	Session/Time	Broad spectra of the Workshop
Day 1	10:30 am-12:30 pm	Inaugural session
Day 1	Session I 12:30 pm-2:00 pm	Ethical Issues during Research in Laboratory Animals <ul style="list-style-type: none"> <li>• Animal ethics introduction, CCSEA guidelines, the "3 Rs" concept.</li> <li>• Discussion on various forms of CCSEA.</li> </ul>
Day 1	2 pm-3 pm	Lunch Break
Day 1	Session II 3 pm-4:30 pm	Basic Principles of Laboratory Animal Care & Management <ul style="list-style-type: none"> <li>• Animal husbandry, facility layout, hygiene, nutrition, and health monitoring.</li> <li>• Disposal of animal carcasses and disinfection.</li> </ul>



Day 2	Session III 10:00 am-11:30 am	Biosafety and Occupational Hazards <ul style="list-style-type: none"> <li>Sanitation protocols, facility design and management practices, common diseases and their preventive measures, animal behaviour, pain recognition, Body condition scoring, grimace scoring, and environmental enrichment and stress reduction strategies.</li> </ul>
Day 2	Session IV 11:30 am-1:00 pm	Hands-on Animal Handling and Restraint (Practical Session) <ul style="list-style-type: none"> <li>Handling mice and rats; sexing and marking techniques for identification; direct observation of procedural skills (DOPS) for handling competency.</li> </ul>
Day 2	1:00 pm-2:00 pm	Lunch Break
Day 2	Session V 2:00 pm-5:00 pm	Experimental Techniques: administration and sample collection (Practical Session) <ul style="list-style-type: none"> <li>Animal model selection; drug administration routes</li> </ul>

9. Collaborating Institutions/Organizations, if any, with their specific contribution:  
Nil

10. Expected number of participants and list of Resource Persons/Invited Speakers:

Expected number of participants: 50

**List of the Expected Resource Persons/ Invited Speakers**

- Dr. Vivek Tyagi  
Senior Consultant, CCSEA, New Delhi
- Dr. Suhrta Paul  
Former Vice Chancellor, The West Bengal University of Health Sciences, Kolkata
- Dr. Ram Sudheer Adluri  
Director-In-Vivo Pharmacology, Drug Discovery Solutions,  
Aragen Life Sciences, Andhra Pradesh, India
- Dr. Tapas Kumar Sar  
Professor, Faculty of Veterinary & Animal Sciences  
West Bengal University of Animal and Fishery Sciences, West Bengal, India
- Prof. Samir Kumar Samanta  
Principal, Dr. B. C. Roy College of Pharmacy and Allied Health Sciences



**11. Details of grant received from DSTBT in last three Financial Years, if any, along with date of submission of UC, Audited SoE, Report etc.:**

Details of the Grant received from DSTBT (In last three Financial Years)	Date of submission of UC	Date of submission of Audited SoE	Date of submission of Report
3- Days Entrepreneurship Awareness camp(EAC) FY 2019-2020 Memo:1837 (Sanc.)/STBT-11012(22)/28/2019-ST SEC Amount Sanctioned Rs. 50000	21.06.2022	21.06.2022	21.06.2022
DST-BT R&D Project Entitled - Development of Pullulan based nanomedicines dual inhibitors of Alzheimer disease a special target for senile plaques. Duration of the project:3 years Memo : 2136(Sanc.)/STBT-11012(25)/4/2024-ST SEC Total approved Budget: Rs.5,30,000/- Amount sanctioned: Rs.370000/-	10.02.2024	19.02.2024	1 <sup>st</sup> YEAR PROGRESS REPORT SUBMITTED

Note: All the supporting documents were attached.

**12. Name and address of the authority to whom the allotted amount is to be credited (if sanctioned) who will also be responsible for submitting UC, Audited SoE, Programme Completion Report, Feedback, Still and Video photographs etc. of the grant:**

Dr. B.C. Roy College of Pharmacy and Allied Health Sciences, Durgapur, West Bengal, India

**13. Total Estimated Expenditure (A)/Organisation's contribution (B)/Contribution from other sources (C)/Grant expected from DSTBT (D):**

*Rs* 80,000.00/-

$D = (A - B - C)$  (Provide detailed Budget break-up as per Annexure-I and Bank details as per Annexure-II)



**Check List (put tick) of attachments to be submitted with the application**

- Proposed Total Budget with break-up (Annexure-I) and Bank Details (Annexure-II) in Institute/Organization's letterhead: **YES/NO**
- For registered NGO/Trust: Filled in Application Format recommended by appropriate Recommending Authority viz. Jt.BDO/BDO/SDO/DM/Executive Officer-Municipality/Commissioner-Municipal Corporation as the case may be (where the program is actually going to be held): **YES/NO**
- For registered NGO/Trust, attested copies of registration certificate, latest renewal certificate, Memorandum & Rules & Regulations, last three years Audited Statement of Accounts, Annual Reports, List of recommended beneficiaries: **YES/NO**

**DECLARATION**

Certified that the details furnished in the filled-in format are correct to the best of our knowledge & belief and that the amount of financial assistance, if sanctioned, will be utilized for the purpose for which it is granted within the time prescribed by DSTBT. We undertake to abide by the General Guidelines and Terms & Conditions prescribed by DSTBT and provide due coverage to DSTBT during the Programme and in publications/print/electronic media made from the Programme in future. We also declare that within one month after completion of the Programme we shall submit the Utilisation Certificate (UC), Audited Statement of Expenditure (Audited-SoE), Programme Completion Report, Feedbacks from the Participants, still and video photographs etc.

*Yadu Nandan Dey*  
15-12-25

Prof. Yadu Nandan Dey  
Coordinator  
Professor, Dr. B. C. Roy College of  
Pharmacy and Allied Health  
Sciences

*Saroj Singhmura*  
14/12/25

Saroj Singhmura  
Joint Coordinator  
Assistant Professor  
Dr. B. C. Roy College of Pharmacy  
and Allied Health Sciences

*T. Sagarika Deepthy*  
14/12/25

Dr. Sagarika Deepthy Tallapragada  
Joint Coordinator  
Assistant Professor, Dr. B. C. Roy  
College of Pharmacy and Allied  
Health Sciences

Date: 15-12-25



*Samir Kumar Samanta*  
15.12.25

Prof. Samir Kumar Samanta  
Principal

Dr. B. C. Roy College of Pharmacy and Allied  
Health Sciences

Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal

Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206

**RECOMMENDATION**  
**(only for registered NGO/Trust)**

Certified that the said Organisation is reputed in this field and I/we recommend the said proposal for getting grant-in-aid from DSTBT, Govt. of West Bengal for the benefit of the local College/University Students/Community etc.

(Office Seal)

Signature:

Date:

Name of Recommending Authority:

Designation:

**DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR**

Affiliated to MAKAUT, WB and WBSCT &amp; VE &amp; SD

Approved by PCI | NAAC &amp; NBA (UG Pharmacy) Accredited | NIRF Ranked (2020-2024)

CAMPUS: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, Dist.-Paschim Burdwan (W.B), India

☎ 0343-2532679/0343-2532678, ✉ bcrpc\_dgp@yahoo.co.in

**Annexure-I****Proposed Total Budget with break-ups****A. Total Estimated Expenditure**

Sl. No.	Items required with justification and rate	Total Expenditure(A) (Rs)
1.	Honorarium to Resource Persons / Experts (INR.5,000/- x 5)	25,000.00
2.	Study materials, Consumables expenses	15,000.00
3.	Hall rent, if any	0.00
4.	Publicity materials	5000.00
5.	Travel expenses	50,000.00
6.	T.A.to the external Resource Persons / Experts	10,000.00
7.	Documentation expenses including audio-visual	5,000.00
8.	Light refreshments	25,000.00
9.	Auditors' fee	0.00
9.	Other expenses, (Hotel Accommodation for two Resource Persons)	25,000.00
<b>Grand Total Expenditure (Rs):</b>		<b>1,60,000.00</b>

Please mention:

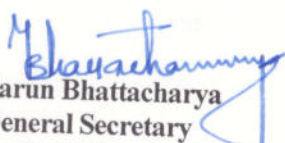
B. Institution/Organization Contribution -

INR. 65,000.00/-

C. Contribution from any other sources (with name &amp; Address) –

Registration Fees @INR. 300/- x 50 = INR. 15,000.00/-

D. Grant expected from DSTBT (Rs.)=(A-B-C) = INR. 80,000.00/-

  
Tarun Bhattacharya  
General Secretary


Dr. B. C. Roy Engineering College, Durgapur (Society)

*General Secretary*

Dr. B. C. Roy Engineering College (Society)

Managing

Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur-713206

  
Prof. Samir Kumar Samanta  
Principal  
Dr. B. C. Roy College of Pharmacy  
and Allied Health Sciences,  
Durgapur

Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206





**DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR**

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CAMPUS: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, Dist.-Paschim Burdwan (W.B), India  
☎ 0343-2532679/0343-2532678, ✉ bcrp\_dgp@yahoo.co.in


**Annexure-II**

**Bank details of the Applicant Organization**

Name of the Organization	Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur
Bank Account number & Name of the Account holder/Organization	213010100114950 & Dr. B C Roy College of Pharmacy and AHS, Durgapur
Type of Account (Savings or Current A/C)	Savings
Name of the Bank	Axis Bank Ltd.
Name of the Branch with Branch address	Durgapur & Ground Floor, Suhatta Mall, City Centre, Durgapur-713216
IFSC of the Branch	UTIB0000213
Mobile Number of the Programme Coordinator/ Head of the Organization	9903539152
PAN/TAN of the Account holder /Organization	AAABD0204F

  
**Tarun Bhattacharya**  
General Secretary  
Dr. B. C. Roy Engineering College, Durgapur (Society)

*General Secretary*  
Dr. B. C. Roy Engineering College (Society)  
Managing  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur-713206

  
**Prof. Samir Kumar Samanta**  
Principal  
Dr. B. C. Roy College of Pharmacy  
and Allied Health Sciences,  
Durgapur

*Prof. (Dr.) Samir Kumar Samanta*  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206







GOVERNMENT OF WEST BENGAL  
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 10/02/2024

Memo No : 2136(Sanc.)/STBT-11012(25)/4/2024-ST SEC

Sanction Order for Grant-in-Aid in Cash

Demand No. : 76

Department Code : BS

Financial Year : 2023 - 2024

1. Sanctioning Authority: SPECIAL SECRETARY, Science & Technology and Biotechnology
2. Recipient of Grant: Dr. B.C. Roy College of Pharmacy & Allied Health Science.
3. Category of the recipient of Grant: Grantee Institution
4. Amount Sanctioned: Rs.370000/-  
Rupees Three Lakh Seventy Thousand Only.
5. DDO Code :- CAFSTA003
6. DDO Designation: Registrar, Science & Technology & Biotechnology Dept.
7. Department Code: BS-Science & Technology and Biotechnology
8. Head of Account Code :76-3425-60-200-010-31-02-V
9. Scheme Name Financial Assistance to other Scientific Bodies for undertaking Scientific
10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III
11. Type of Grant:- Recurring
12. Utilization Certificate Required or Not: Yes

13. Purpose of Grant : R&D project entitled- Development of Pullulan based nanomedicine as dual inhibitors of Alzheimer disease a special target for senile plaques.

14. Applicable T.R Form No:- TR Form No.31

15. An amount of Rs.370000/-(Rupees Three Lakh Seventy Thousand Only.) is hereby sanctioned for payment of Grant to the recipients as per Sl.No.2 from the Head of Account as stated in Sl.No.8 above against the Budget Provision of the Financial Year 2023 - 2024. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.

16. Total released amount is within the Budget Provision of the Financial Year. 2023 - 2024

17. This order issues in exercise of the power delegated under Finance Department Memo. No. 990-F.B. dated 12.12.2023 with the concurrence of Finance Deptt.vide Gr. F.A. Branch U.O. No. 193/FA Date 07/02/2024

18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.

19. Remarks: Present release Rs. 3,70,000/- is the 1st instalment of the total project cost of Rs. 5,30,000/- sanctioned for 3 year (s) work, will be transferred through e-Pradan system to Dr. B.C. Roy College of Pharmacy & Allied Health Science. A/C No.-213010100114950 (SB), IFSC CODE-UTIB0000213, Mobile No.-9051226973.

Sd/-

SPECIAL SECRETARY

Science & Technology and Biotechnology



Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Registrar, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. CSO.
7. Financial Advisor, DSTBT.
8. A.K. Kalidaha, SSO.
- 11) Guard File. / Uploading this G.O. in the portal.
9. Registrar, Dr. B.C. Roy College of Pharmacy & Allied Health Science, Dr. Meghnad Saha Sarani, Bidhan Nagar, Durgapur -713206.
10. Mrs. Puja Mishra, P.I. of the project, Dr. B.C. Roy College of Pharmacy & Allied Health Science, Dr. Meghnad Saha Sarani, Bidhan Nagar, Durgapur -713206. (Strictly follow Annexure-

*Sd/- 12/02/2024*  
SPECIAL SECRETARY



Standard Form-IUTILISATION CERTIFICATE IN RESPECT OF GRANT-IN-AID

No. Memo No: 2136(Sanc.)/STBT-11012(25)/4/2024-ST SEC

Date: 10.02.2024

- Name of the Grantee Institute(s) :DR. B.C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES  
[Attach separate list for more than one Grantee Institution]
- Sanctioning Authority :SPECIAL SECRETARY, Science & Technology and Biotechnology
- Sanction Order Number & Date : (Memo No: 2136(Sanc.)/STBT-11012(25)/4/2024-ST SEC Dated. 10.02.2024)
- Amount Sanctioned :Rs. 3,70,000.00 (Rupees Three Lakh Seventy Thousand only)
- Drawing & Disbursing Officer :Registrar, Science & Technology & Biotechnology Dept.
- Treasury/PAO :Pay & Accounts Officer-III, Calcutta PAO-III  
[From where the bill was drawn]
- Bill No. & Date :
- T.V. No. & Date :
- Amount Drawn :Rs. 3,70,000.00
- Unspent Balance of Previous year, if any :NA
- Amount Utilized :Rs. 3,37,470.56
- Unspent Balance, if any, in Current year :Rs. 32,529.44
- Purpose of Utilization :Project

CERTIFICATE

Certified that I have satisfied myself that the conditions on which the Grant-in-Aid was sanctioned have been duly fulfilled/are being fulfilled that I have exercised the following checks to see that the money was actually utilised for the purpose for which was sanctioned

**[Applicable in case of unspent balance]** The unspent fund will be adjusted against the Grant-in-Aid to be sanctioned and paid in the Current Financial Year (applicable in case of recurring grant only).

Kinds of checks exercised

1. Cash Book
2. Ledger
3. ....

Date

*Durga Mishra*  
Signature With Official Stamp  
Assistant Secretary  
Dr. B. C. Roy College of Pharmacy and AHS  
Durgapur-713206



## Standard Form –II

### Yearly Progress Report

1. Name of the PI with designation, mobile no. and e-mail id, Registration id & date and Application id & date (Vigyansathi Portal):

**Puja Mishra,**

**Assistant Professor, Department of Pharmaceutical Chemistry,**

**Dr. B. C Roy College of Pharmacy & Allied Health Sciences,**

**Durgapur, W.B.-713206, India.**

**Tel: +91-8340435004;**

**Email ID: pujamay12@gmail.com**

**Online Registration ID: 2308/ASTP/F/OTH/22**

2. Title of the R&D Project: **Development of Pullulan based nano-medicine as dual inhibitors of Alzheimer's disease-a special target for senile plaques**
3. Name and postal address of the Institute: **Dr. B. C Roy College of Pharmacy & Allied Health Sciences, Dr. Meghnad Saha Sarani, Bidhannagar Durgapur, W.B.-713206, India.**
4. Total approved Budget: **Rs. 5,30,000.00 (Rupees Five Lakh Thirty Thousand only)**
5. First Sanctioned G.O. No.: **(Memo No: 2136(Sanc.)/STBT-11012(25)/4/2024-STSEC Dated. 10.02.2024)**
6. Date of Commencement of the Project: **19.02.2024**
7. Total Duration of the Project: One year/Two years/ Three years: **Three Years**
8. Last Sanctioned G.O.No. (for which the Yearly Progress Report is given): **NA**
9. Year of the Progress Report: 1<sup>st</sup> year/2<sup>nd</sup> year/ 3<sup>rd</sup> year: **1<sup>st</sup> year**
10. Objective(s)/ Academic Landmark of the Sanctioned Project: **1<sup>st</sup> year**
  - **A comprehensive in silico drug design using Auto Dock, molecular dynamics (MD) simulations, de novo ligand-based drug design, and pharmacophore modeling was accomplished.**
  - **Additionally, a QSAR model of curcumin derivatives was developed to evaluate their activity against acetyl cholinesterase (AChE).**
  - **Selected synthetic heterocyclic molecules were also synthesized, purified, and structurally characterized using NMR, IR, and mass spectrometry techniques.**
11. Achievement(s) of the Objective /Academic Landmark (till date of Report):

**Successfully communicated a research article to the Springer Nature journal Chemical Papers (Impact Factor: 2.0; Print ISSN: 0366-6352) which is currently under peer review.**
12. If there is any short coming to achieve the objective(s), reason(s) thereof: **NA**

13. Physical Progress during the reporting year: **The work has been started as per the deliverables of second year of the project.**
14. Quantitative indication of the actual progress vis-à-vis the original proposal submitted to DSTBT (as per Work Plan and Timeline): **More than 90% work or progress is achieved as per the proposal submitted to DSTBT for first year.**
15. Physical Achievement and Translational Outcome till date, particularly, how the result will help the common people of our State: **The bioactive molecules designed and synthesized so far would be further subjected to toxicological analysis and more bioactivity analysis and subsequently be encapsulated to certain formulations as a finished product.**
16. No. of papers published/communicated (with copy) and Book/Book Chapter/Book Edited etc.: **1 Research article has been communicated to Springer Nature Journal Chemical Papers (2023 Impact Factor (Clarivate / JCR): 2.0, Print ISSN: 0366-6352) and is in Review stage. (copy attached)**
17. Patents applied (if any): **NA**
18. Remaining Work to be done for the next year:
- ***In vitro* assay using Congo Red (CR) dye to study amyloid fibrillation inhibition of standard protein, standard drugs and synthesized drug in varied concentration**
  - **Planned *in vitro* assays using Thioflavin T to confirm inhibition of amyloid fibrillation, along with structural analysis through diffraction-based methods such as X-ray crystallography and Circular Dichroism (CD) spectroscopy.**
  - ***In vivo* evaluation of the synthesized compound by several cognitive studies would be performed using a scopolamine-induced amnesia mice model.**
19. Budget utilization as per the sanctioned heads:

Sl No	Sanctioned Heads as per Budget	Amount allotted as per Sanctioned Budget (A) (Rs.)	Expenditure made during the reporting year (B) (Rs.)	Unspent Balance (C=A-B) (Rs.)	Remarks, if any (Expenditure done in brief)
1.	(a) Non-recurring (Permanent Equipment)	2,50,000.00	2,48,973.00	1,027.00	
2.	(b) Recurring Consumables	60,000.00	60,806.00	(-)806.00	
3.	(b) Recurring Other costs	50,000.00	19,241.56	30,758.44	
4.	(b) Recurring Travel	10,000.00	8,450.00	1,550.00	
	Total	3,70,000.00	3,37,470.56	32,529.44	

20. Any other Special Achievement/ Translational value etc.: **NA**



*Puja Mishra*  
**Principal Investigator (PI):** Assistant Professor  
**Ms. Puja Mishra,** Dr. B. C. Roy College of Pharmacy and AHS  
Assistant Professor, Department of Pharmaceutical Chemistry,  
Dr. B. C Roy College of Pharmacy & Allied Health Sciences,  
Durgapur-713206, WB, India  
**Online Registration ID: 2308/ASTP/F/OTH/22**

*Shyam*  
**Co-Principal Investigator (Co-PI):**  
**Prof.(Dr.) Shyamshree S S Manna,**  
Former Professor, Department of Pharmacology,  
Dr. B. C Roy College of Pharmacy & Allied Health Sciences,  
Durgapur-713206, WB, India  
**Online Registration ID: 2942/PROF/F/OTH/22**



*Souvik Basak*  
**Co-Principal Investigator (Co-PI):**  
**Prof.(Dr.) Souvik Basak,**  
Professor, Department of Pharmaceutical Chemistry,  
Dr. B. C Roy College of Pharmacy & Allied Health Sciences,  
Durgapur-713206, WB, India  
**Online Registration ID: 2497/ASOP/M/OTH/22**



*Samir Kumar Samanta*  
**Prof. (Dr.) Samir Kumar Samanta**  
Principal (Head of the Institute),  
Dr. B. C Roy College of Pharmacy and Allied Health Sciences,  
Durgapur-713206, WB, India

Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206

Standard Form-III

Audited Statement of Expenditure (Audited SoE)

1. Name of the PI with designation, mobile no. and e-mail id, Registration id & date and Application id & date (Vigyansathi Portal):

**Puja Mishra,**  
**Assistant Professor, Department of Pharmaceutical Chemistry,**  
**Dr. B. C Roy College of Pharmacy & Allied Health Sciences,**  
**Durgapur, W.B.-713206, India.**  
**Tel:+91-8340435004;**  
**Email ID: pujamav12@gmail.com**  
(Online Registration ID: 2308/ASTP/F/OTH/22)

2. Title of the R&D Project:**Development of Pullulan based nanomedicine as dual inhibitors of Alzheimer disease a special target for senile plaques**
3. Name and postal address of the Institute:**Dr. B. C Roy College of Pharmacy & Allied Health Sciences, Dr. Meghnad Saha Sarani, Bidhannagar Durgapur, W.B.-713206, India.**
4. Total approved Budget: **Rs. 5,30,000.00 (Rupees Five Lakh Thirty Thousand only)**
5. First Sanctioned G.O. No.: **(Memo No: 2136(Sanc.)/STBT-11012(25)/4/2024-ST SEC Dated. 10.02.2024)**
6. Date of Commencement of the Project:**19.02.2024**
7. Total Duration of the Project: One year/Two years/ Three years: **Three Years**
8. Last Sanctioned G. O. No. (for which the Yearly Progress Report is given):**NA**
9. Year of the Progress Report: 1<sup>st</sup> year/2<sup>nd</sup> year/ 3<sup>rd</sup> year: **1<sup>st</sup> year**



Budget Utilization details:

Sl No.	Sanctioned Heads as per Budget	Amount allotted as per Sanctioned Budget (A) (Rs.)	Expenditure made during the reporting year (B) (Rs.)	Unspent Balance (C) (Rs.)	Remark, if any (Expenditure done in brief)
1.	(a) Non-recurring (Permanent Equipment)	2,50,000.00	2,48,973.00	1,027.00	Instrument Supercooling Benchtop Centrifuge
2.	(b) Recurring Consumables	60,000.00	60,806.00	(-)806.00	Chemicals, Glassware
3.	(b) Recurring Other costs	50,000.00	19,241.56	30,758.44	Analysis and postage
4.	(b) Recurring Travel	10,000.00	8,450.00	1,550.00	Travel for analysis
	Total	3,70,000.00	3,37,470.56	32,529.44	

Certified that we have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by DSTBT.

For V. N. Pulnit & Co.  
Chartered Accountants

*Sugata Ganguly*

(SUGATA GANGULY)  
Partner  
Membership No.-065153

*Druja Mishra*  
Name & Signature of  
Principal Investigator with  
Official Seal

Assistant Professor  
Dr. B. C. Roy College of Pharmacy and AHS  
Durgapur-713206

*Prof. (Dr.) Samir Kumar Samanta*  
Name & Signature of Head  
of the Institution with  
Official Seal

Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206

Name & Signature of  
Chartered Accountant with  
Official Seal

UDIN-25065153BMJTSN7864

GOVERNMENT OF WEST BENGAL  
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 13/02/2020

Memo No : 1837 (Sanc.)/STBT-11012(22)/28/2019-ST SEC

Sanction Order for Grant-in-Aid in Cash

Demand No. : 76

Department Code : BS

Financial Year : 2019 - 2020

1. Sanctioning Authority: Science & Technology and Biotechnology
2. Recipient of Grant: DR B.C.ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR.
3. Category of the recipient of Grant: Grantee Institution
4. Amount Sanctioned: Rs.50000/-  
Rupees Fifty Thousand Only.
5. DDO Code :- CAFSTA003
6. DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.
7. Department Code: BS-Science & Technology and Biotechnology
8. Head of Account Code :76-3425-60-200-011-31-02-V
9. Scheme Name : West Bengal State Council of Science & Technology
10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III
11. Type of Grant:- Non-Recurring
12. Utilization Certificate Required or Not: Yes
13. Purpose of Grant : 3 days Entrepreneurship Awareness Camp on NEW ERA STARTUP.
14. Applicable T.R Form No:- TR Form No.31
15. An amount of Rs.50000/-(Rupees Fifty Thousand Only.) is hereby sanctioned for payment of Grant to the recipients as per Sl.No.2 from the Head of Account as stated in Sl.No.8 above against the Budget Provision of the Financial Year 2019 - 2020. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.
16. Total released amount is within the Budget Provision of the Financial Year. 2019 - 2020
17. This order issues in exercise of the power delegated under Finance Department Memo. No. 1854-F.B. dated-26.03.2019 & 550-F.B. dated-30.07.2019 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 264-
18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.
19. Remarks: Present release Rs. 50,000/- will be transferred through e-Pradan system to DR B.C.ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR. A/C No.-213010100114950 (SB), IFSC CODE-utib0000213, Mobile No.-9051226973.

Sd/-

ASSISTANT SECRETARY

Science & Technology and Biotechnology



Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Sec. Officer, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. PSO.
7. Shri A.K.Kalidaha, SSO.
8. President, DR B.C.ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR, Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206.
9. Dr. SOUVIK BASAK, Programme Coordinator, DR B.C.ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR, Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206.
10. Shri Soumyajit Mukherjee, SSO. 11) Guard File.

  
ASSISTANT SECRETARY

**UC****Standard Form - I****Utilisation Certificate (UC) in respect of Grant-In-Aid**

No.

Date: 02-06-2022

1. Name of the Grantee Institute (s) : Dr. B.C. Roy College of Pharmacy & Allied Health Sciences, Durgapur-713206, WB, India  
[Attach separate list for more than one Grantee Institution]
2. Sanctioning Authority : Science & Technology and Biotechnology
3. Sanction Order Number & Date : 1837 (Sanc.) / STBT-11012(22)28/2019-ST  
SEC, Date: 13/02/2020
4. Amount Sanctioned : Rs. 50000/-, Rupees Fifty Thousand Only
5. Drawing & Disbursing Officer : Sec. Officer, Science & Technology & Biotechnology
6. Treasury/PAO : Pay & Accounts Officer-III, Calcutta PAO-III  
[From where the bill was drawn]
7. Bill No. & Date : -
8. T. V. No. & Date : -
9. Amount Drawn : Rs. 50000/- Rupees Fifty Thousand Only
10. Unspent Balance of Previous year, if any : NA
11. Amount Utilised : Rs. 50000/- Rupees Fifty Thousand Only
12. Unspent Balance, if any, in Current year : Zero
13. Purpose of Utilisation : 3-days Entrepreneurship Awareness Camp  
on NEW ERA STARTUP

**CERTIFICATE**

Certified that I have satisfied myself that the conditions on which the Grant-in-Aid was sanctioned have been duly fulfilled/are being fulfilled that I have exercised the following checks to see that the money was actually utilised for the purpose for which was sanctioned.

**[Applicable in case of unspent balance]** The unspent fund will be adjusted against the Grant-in-Aid to be sanctioned and paid in the Current Financial Year (applicable in case of recurring grant only)

**Kinds of checks exercised**

1. Cash Book
2. Ledger
3. ....
4. ....
5. ....

Date

Signature with Official Stamp  
Principal  
Dr. B.C. Roy College of Pharmacy & A.H.  
Biddamnagar, Durgapur-713206, Burd.

(IMPORTANT: UC must be completed in one single A4 page and not to split into more than one page)



## Audited Statement of Expenditure (A-SoE)

Title of the Programme: 3 Days Entrepreneurship Awareness Camp on NEW ERA START UP

Duration: 3 days..... Venue: Dr. B.C. Roy College of Pharmacy &amp; Allied Health Sciences, Durgapur-713206, WB, India

Organized by: Dr. B.C. Roy College of Pharmacy &amp; Allied Health Sciences, Durgapur-713206, WB, India

Receipts	Amount (₹)	Payments	Amount (₹)
Amount received from DSTBT	50,000/-	1. Food and Refreshment (Caterer Vision Astha)	69,200/-
		2. Honorarium	13,000/-
Amount contributed from own Institution/ Organisation/ Participantsetc.	Participants' registration (including own and other institute participants) -55,800/-  Contribution from the own Institute- 11,854/-	3. Conveyance & Travelling	12,700/-
		Bus fare for industrial tour	4000/-
Amount received from other Institution/ Organisation/ other means etc.		4. Printing and Kit	18,754/-
		5. NIL	
<b>Total (₹):</b>	<b>1,17,654/-</b>	<b>Total (₹):</b>	<b>1,17,654/-</b>

Certified that we have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by DSTBT vide Government Order No. 1837(Sanc)/STBT-11012(2)/58/2019-18/ST SEC

₹ 50000/- (fifty thousand only)

For V. N. Purabit & Co. Chartered Accountants

Sugata Ganguly  
(SUGATA GANGULY)  
Partner  
Membership No.-065153

Name & Signature  
of Programme Coordinator  
Official Seal

Name & Signature  
of Head of the Institution

Principal  
Dr. B.C. Roy College of Pharmacy & A.H.S. of  
Burdwan, Durgapur-713206, Burdwan

Name & Signature  
of Chartered Accountant

Official Seal

(IMPORTANT: A-SoE must be completed on one A4 page and not to split into more than one page)

## Programme Completion Report

### Standard Form - II

This to Certify that the Programme titled **...3-days entrepreneurship awareness camp on NEW ERA START UP** sponsored by the Department of science & Technology and Biotechnology (DSTBT), Govt. of West Bengal was successfully organised by Dr. B.C. Roy College of Pharmacy & Allied Health Sciences, Durgapur, WB in collaboration with SHRM Biotechnologies Pvt Ltd., Kolkata And Wadhvani Foundation during 4.5.2022 to 6.5.2022 at Acharya Prafulla Chandra Seminar Hall, Dr. B.C. Roy College of Pharmacy & Allied Health Sciences, Durgapur, WB, India for the benefit of UG and/Or PG students from various institutes along with the host institute.

The following components of the above mentioned Programme

1. Direct Interaction with Peer Members from Government such as Mr. Amiya Kalidaha, senior scientific officer, DSTBT and Mr. S. Biswas, GM, MSME, Paschim Bardhaman for various Govt. laid schemes, provisions, scopes and opportunities for budding entrepreneurs
  2. The workshop from Prof Dr. Debarshi <sup>De</sup> Dutta was fantastic relating to basic to advanced concepts of entrepreneurship, writing the entrepreneurship proposals, chalking out an entrepreneurship plan etc.
  3. Group Presentation and participation from students to elicit their entrepreneurship plans in front of judges and audience to come up with realistic solutions of various problems of the society and creating various innovative ideas for job creation
  4. Realistic tour to various industries for a brilliant exposure to budding entrepreneurs
- were found very beneficial and inspiring for the students from various institutes who participated during the mentioned events.

**Special achievements by conducting this programme are:** Around 93 participants (students) from various institutes participated in the EAC who came across various connoisseurs from Govt. of WB and successful entrepreneurs such as Mr. Amiya Kalidaha, Senior Scientific Officer, DSTBT, Mr. S. Biswas, GM, MSME, Paschim Bardhaman, Dr. Satyajit Bose, leading cardiac surgeon and CEO of Mission Hospital, Durgapur; Mr. Kunal Vora, Director, SHRM Biotechnologies Pvt. Ltd, Kolkata which has actual been a lifetime experience of the budding entrepreneurs. Furthermore, the fundamental workshop of Prof. Dr. Debarshi Dutta with one to one interaction with the participants was basically a gem of the lessons for the participants. Finally, the informative quiz session regarding entrepreneurship and creative entrepreneurship project presentation on various innovative ideas by the group of students regarding start-ups really brought out a realm of solutions to various socio-economic problems in India. The cash prize provided to the winners and participation certificates to all have been a good morale booster for the students to pursue further in this field. Additionally, industrial tour- acted really like a welder between amateurish concepts and practical cage builder for the students.



The Still photographs and videos taken during each of the individual events are enclosed for reference.

(Detail Program Report is attached separately along with this page)

Souen Barm  
21/1/22

*[Signature]*  
21/1/22

Name & Signature  
of Programme  
Coordinator

Name & Signature  
of Head of the Institution

Name & Signature  
of the person who has  
recommended, if any

Official Seal

Official Seal

Official Seal



Dr. B.  
Bidha

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