



পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

81AA 337749

**MEMORANDUM OF COOPERATION**  
**Between**  
**Balagarh Bejoy Krishna Mahavidyalaya,**  
**and**  
**Bejoy Narayan Mahavidyalaya**

Balagarh Bejoy Krishna Mahavidyalaya, with registered office in Balagarh, Hooghly, West Bengal, Indian, 712501, represented by Principal Dr. Pratap Banerjee.

**And**

Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly, 712147, represented by Principal Dr. Gouam Bit.

Here in after referred to as "Parties". With the object of promoting cooperation in academic education and research, the Parties have mutually agreed to enter into this memorandum.

**Article 1**

The scope of research and academic education cooperation includes:

1. Conducting joint research in the fields of interest to both Parties;



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ପ୍ରତିଷ୍ଠାପନ

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2. Exchange of expertise between academic staff and students;
3. Exchange of science publications, academic scripts, textbooks and literature;
4. Green initiatives undertaken by the Nature clubs of the Mahavidyalaya;
5. Any other activity which may be incorporated into the memorandum in the form of annex hereto.

## Article 2

In order to implement the objectives of this memorandum, the parties shall set out a detailed subject matter in accordance with applicable provisions and financial capabilities, rules of cooperation, financing methods, schedule of staff and student exchange and designate a person responsible for implementing the said. Detailed conditions of cooperation, applicable law, dispute resolution and the scope of responsibility shall be agreed upon by the Parties under a separate agreement.

## Article 3

The Parties shall specify regulations regarding data confidentiality and intellectual property rights unless this covered by the subject matter of an agreement. The Parties shall also specify the effects of cooperation.

## Article 4

This memorandum is concluded for the period of 3 years. Either Party may terminate this memorandum with three month written notice.

## Article 5

This memorandum may be amended by an annex mutually agreed upon and signed by the parties.

## Article 6

This parties shall designate coordinators for the activities under this memorandum.

1. For Balagarh Bejoy Krishna Mahavidyalaya, Dr. Abhijit Ghosh, Co-ordinator, IQAC, Balagarh, Hooghly, West Bengal, 712501, represented by Principal Dr. Pratap Banerjee.

2. For Bejoy Narayan Mahavidyalaya, Dr. Shalmali Chakraborty, Co-ordinator, IQAC, Itachuna, Hooghly, West Bengal, 712147, represented by Principal Dr. Goutam Bit.

## Article 7

This memorandum enters into force on the date on which the last party signs.

**BEJOY NARAYAN MAHAVIDYALAYA**

**BALAGARH BEJOY KRISHNA MAHAVIDYALAYA**



(Signature with date)

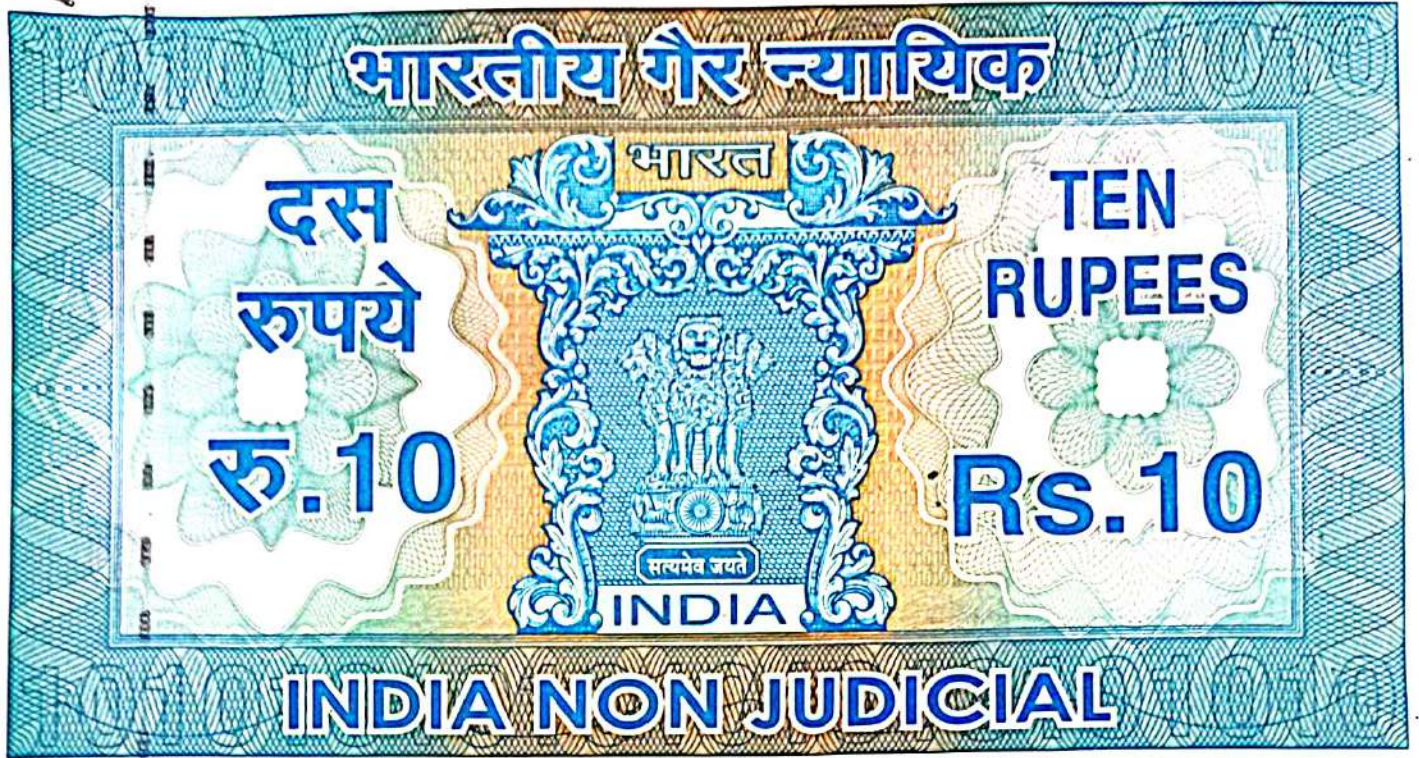
Principal  
Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, Dt.- Hooghly.

(Signature with date)

Principal  
Balagarh B. K. Mahavidyalaya  
Balagarh, Hooghly, W.B.







পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL 54AB 982152  
**MEMORANDUM OF COOPERATION**

between

**Sreegopal Banerjee College**  
and

**Bejoy Narayan Mahavidyalay**

Sreegopal Banerjee College, with registered office in Bagati, Magra, Hooghly, West Bengal, India, 712148, represented by Principal Dr. Debasis Mukhopadhyay.

And

Bejoy Narayan Mahavidhyalaya, Itachuna, Hooghly, 712501, represented by Principal Dr. Goutam Bit

Here in after referred to as "Parties". With the object of promoting cooperation in academic education and research, the Parties have mutually agreed to enter into this memorandum.

#### **Article 1**

The scope of research and academic education cooperation includes:

1. Conducting joint research in the fields of interest to both Parties;
2. Exchange of expertise between academic and research staff;
3. Exchange of science publications, academic scripts, textbooks and literature;
4. Exchange of academic and research staff and students;
5. Organisation of joint scientific activities,
6. Any other activity which may be incorporated into this memorandum in the form of annex hereto.

স্বর ২৩২ তারিখ ৩১/০৮/২১  
মূল্য ৳ ১০  
ক্রেতার নাম স্রী সোমনাথ চন্দ্রী জলিন-  
সাকিম কান্দী  
থানা কান্দী  
জেলা হুগলী  
ভেণ্ডারের স্বাক্ষর. ১/০৮/২১

জিত চাটাজী  
নাইসেন্স প্রাপ্ত স্ট্যান্ড ভেণ্ডার  
জনা জজ আদালত, হুগলী



## Article 2

In order to implement the objectives of this memorandum, the Parties shall set out a detailed subject matter in accordance with applicable provisions and financial capabilities, rules of cooperation, financing methods, schedule of staff and student exchange and designate a person responsible for implementing the said. Detailed conditions of cooperation, applicable law, dispute resolution and the scope of responsibility shall be agreed upon by the Parties under a separate agreement.

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## Article 5

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## Article 6

This Parties shall designate coordinators for the activities under this memorandum:

1. for Sreegopal Banerjee College, Dr. Subhas Chandra Ghosh Co-ordinator IQAC., Sreegopal Banerjee College Bagati, Magra, Hooghly, West Bengal, India, 712148, represented by Principal Dr. Debasis Mukhopadhyay.
2. for Bejoy Narayan Mahavidhyalaya, Dr. Pinak Dutta, Co-ordinator IQAC Itachuna, Hooghly, 712146 represented by Principal Dr. Goutam Bit

## Article 7

This memorandum enters into force on the date on which the last party signs.

Bejoy Narayan Mahavidhyala

Sreegopal Banerjee College



*[Signature]*  
10.03.22  
(date and signature)  
Principal  
Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, Dt.- Hooghly.

*[Signature]*  
10.03.22

(date and signature)  
Principal  
Sreegopal Banerjee College  
Bagati, Magra, Hooghly



# **MEMORANDUM OF COOPERATION**

between

**Sreegopal Banerjee College**

and

**Bejoy Narayan Mahavidyalay**

Sreegopal Banerjee College, with registered office in Bagati, Magra, Hooghly, West Bengal, India, 712148, represented by Principal Dr. Debasis Mukhopadhyay.

And

Bejoy Narayan Mahavidhyalaya, Itachuna, Hooghly, 712147, represented by Principal Dr. Goutam Bit

Here in after referred to as "Parties". With the object of promoting cooperation in academic education and research, the Parties have mutually agreed to enter into this memorandum.

## **Article 1**

The scope of research and academic education cooperation includes:

1. Conducting joint research in the fields of interest to both Parties;
2. Exchange of expertise between academic and research staff;
3. Exchange of science publications, academic scripts, textbooks and literature;
4. Exchange of academic and research staff and students;
5. Organisation of joint scientific activities,
6. Any other activity which may be incorporated into this memorandum in the form of annex hereto.

## **Article 2**

In order to implement the objectives of this memorandum, the Parties shall set out a detailed subject matter in accordance with applicable provisions and financial capabilities, rules of cooperation, financing methods, schedule of staff and student exchange and designate a person responsible for implementing the said. Detailed conditions of cooperation, applicable law, dispute resolution and the scope of responsibility shall be agreed upon by the Parties under a separate agreement.

## **Article 3**

The Parties shall specify regulations regarding data confidentiality and intellectual property rights unless this covered by the subject matter of an agreement. The Parties shall also specify the effects of cooperation.

## **Article 4**

This memorandum is concluded for the period of 3 years. Either Party may terminate this memorandum with three month written notice.

## **Article 5**

This memorandum may be amended by an annex mutually agreed upon and signed by the Parties.



## Article 6

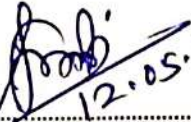
This Parties shall designate coordinators for the activities under this memorandum:

1. for Sreegopal Banerjee College, Dr. Subhas Chandra Ghosh Co-ordinator IQAC., Sreegopal Banerjee College Bagati, Magra, Hooghly, West Bengal, India, 712148, represented by Principal Dr. Debasis Mukhopadhyay.
2. for Bejoy Narayan Mahavidhyalaya, Dr. Pinak Dutta, Co-ordinator IQAC Itachuna, Hooghly, 712147 represented by Principal Dr. Goutam Bit

## Article 7

This memorandum enters into force on the date on which the last party signs.

Bejoy Narayan Mahavidhyala


  
12.05.2022  
.....  
(date and signature)

Principal

Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, Dt.- Hooghly.



Sreegopal Banerjee College

  
12.05.2022  
.....

(date and signature)

Principal

Sreegopal Banerjee College  
Bagati, Mogra, Hooghly







পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

45AB 680616

### MEMORANDUM OF COOPERATION

Between

Bejoy Narayan Mahavidyalaya

and

Government Physical Education College for Women,

Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly, 712147, represented by Principal Dr. Goutam Bit.

And

Government Physical Education College for Women, with registered office in Rice Research Station, Chinsurah (R.S.) Hooghly, West Bengal, Indian, 712102, represented by Principal Dr. Shyamal Mazumder.

Here in after referred to as "Parties". With the object of promoting cooperation in academic education and research, the Parties have mutually agreed to enter into this memorandum.

#### Article 1

The scope of research and academic education cooperation includes:

1. Conducting joint activities in the field of sports and games;
2. Exchange of expertise between academic staff and students;
3. Exchange of academic scripts, books and literature.



তার মজার পোস্তা নিউ  
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Principle

Bijay Narayan

Maharajdanga

Stackura, Hooghly

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04 MAR 2020



## Article 2

In order to implement the objectives of this memorandum, the parties shall set out a detailed subject matter in accordance with applicable provisions and financial capabilities, rules of cooperation, financing methods, schedule of staff and student exchange and designate a person responsible for implementing the said. Detailed conditions of cooperation, applicable law, dispute resolution and the scope of responsibility shall be agreed upon by the Parties under a separate agreement.

## Article 3

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## Article 4

This memorandum is concluded for the period of 3 years. Either Party may terminate this memorandum with three month written notice.

## Article 5

This memorandum may be amended by an annex mutually agreed upon and signed by the parties.

## Article 6

This parties shall designate coordinators for the activities under this memorandum.

1. Bejoy Narayan Mahavidyalaya, Dr. Pinak Dutta, Co-ordinator, IQAC, Itachuna, Hooghly, West Bengal, 712147, represented by Principal Dr. Goutam Bit.


2. For Government Physical Education College for Women, Dr. Sushanta Pal, Co-ordinator, IQAC, Rice Research Station, Chinsurah (R.S.) Hooghly, West Bengal, Indian, 712102, represented by Principal Dr. Shyamal Mazumder.

## Article 7

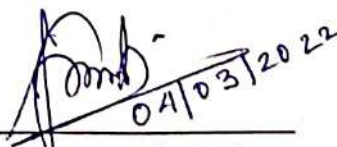
This memorandum enters into force on the date on which the last party signs.

GOVERNMENT PHYSICAL EDUCATION COLLEGE FOR WOMEN

BEJOY NARAYAN MAHAVIDYALAYA

  
(Signature with date)  
Principal  
Govt. Phy. Edu. College for Women,  
Hooghly



  
(Signature with date)  
Principal  
Bejoy Narayan Mahavidyalaya  
P.O. - Itachuna, Dist. - Hooghly.





पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

45AB 680613

In continuation of the MOU, signed on 10/03/2017 (Non-Judicial Stamp no. 81AA337748 and 81AA337749) We, undersigned do hereby agree to continue our collaboration with more emphasis on environment related activities and little emphasis on Physical education (as one of the parties namely BNMV has a MOU with another B.P.Ed College at Hooghly).

BEJOY NARAYAN MAHAVIDYALAYA

(Signature with date)

Principal

Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, DL- Hooghly.



BALAGARH BEJOY KRISHNA MAHAVIDYALAYA

(Signature with date)

Principal

Balagarh B. K. Mahavidyalaya  
Balagarh, Hooghly, W.B.





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04 MAR 2020

Principle,  
Bijay Narayan Mahavidyalaya  
Itachuma, Hoagly  
712147

04 MAR 2020



## **MEMORANDUM OF UNDERSTANDING**

BETWEEN

**Bankura Sammilani College,**

Kenduadihi, Bankura, West Bengal

**&**

**Bejoy Narayan Mahavidyalaya,**

Itachuna, Hoogly

**Bankura Sammilani College**, Bankura, affiliated to Bankura University and **Bejoy Narayan Mahavidyalaya**, Itachuna, Hoogly affiliated to Burdwan University, are linked by common academic interests and seek to develop collaborations and exchanges in fields of shared interest and expertise. The activities undertaken pursuant to this **Memorandum of Understanding** (MoU) are based on a spirit of cooperation and reciprocity, that is intended to be mutual benefit to both the institutions.

### **1. Purpose\***

This Memorandum of Understanding (MoU) serves as a written understanding of agreed upon principles between Bankura Sammilani College and Bejoy Narayan Mahavidyalaya concerning a set of general academic objectives. This is a non-binding agreement and is intended to clarify the nature and extent of the harmonizing activities that might be undertaken for the mutual benefit of the two institutions. Each institution will be responsible for managing its own expenses and also share as and when necessary. Commitments of specific institutional resources, personnel, space, facilities, or any other academic or intellectual activities considered hereunder may or may not be beyond the scope of this MoU. To the extent that the implementation of any agreed upon activity requires a commitment of resources, personnel, credit-bearing coursework, or intellectual property, a supplementary agreement will be negotiated and approved by the two parties before work on any of the projects can commence.

### **2. Objectives, Scope, and Major Activities\***

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach.
- Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources.
- Organize joint conferences, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Pursue avenues for under graduate and post graduate student exchange during the academic year or through summer/winter internship programs.
- Explore the possibilities for developing joint research programs and collaborations.
- Other exchange and cooperation programs such as extension activities to which both institutions agree.

### **3. Responsibilities of the Institutions\***



The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both institutions will be compliant with all applicable Government of India and State legislations and University policies.

#### 4. Duration and Option to Amend, Extend or Terminate\*

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for five years from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice of such termination to the other authority.

#### 5. General Terms\*

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents. Nothing in this MoU obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the two parties. Neither party will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other party to this MoU.

#### 6. Signatures\*

This MoU shall enter into force on the date of the signing by qualified representatives of both institutions.


  
PRINCIPAL  
Bankura Sammilani College  
Kenduadihi, Bankura  
12/05/2021

Principal,

(Dr. Samir Kumar Mukherjee)

Bankura Sammilani College, Kenduadihi, Bankura, West Bengal

Date:- 12/05/2021

  
Principal  
Bejoy Narayan Mahavidyalaya  
Itachuna, Hooghly-712 147



Principal,

(Dr. Goutam Bit)

Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly, West Bengal

Date:- 12/05/2021



सत्यमेव जयते

**Government of West Bengal**  
**Government General Degree College, Singur Estd. 2013**  
**Hooghly, W.B. 712409**  
**Office of the Principal**  
**Phone No. 033-2630-0126**      **Email: [oicsingur@gmail.com](mailto:oicsingur@gmail.com)**

Ref. No. GGDC-SINGUR-56

Date: 3/12/2021

To  
The Additional Secretary  
to the Government of West Bengal  
Department of Science & Technology and Biotechnology  
Vigyan Chetana Bhawan, 5th Floor  
Block-DD, Plot No. 26/B, Sector-I  
Salt Lake City, Kolkata-700 064

Kind Attention: Amiya Kumar Kalidaha, Senior Scientific Officer

**Sub: Submission of 1<sup>st</sup> Year UC, Audited SoE and Yearly Progress Report of my R&D Project on Chemical Sciences entitled: "Synthetic engineering of multitasking small-molecule heterocyclic fluorophores that juggle environmental sensitivity and biological significance"**

Sir,

Kindly note that I, Dr. Amrit Krishna Mitra, am having one R&D Project on Chemical Sciences as given in the subject line funded by your Department, DSTBT, GoWB. I have successfully completed the first year of this ongoing project as per the objectives and suggestions received from the Hon'ble Expert Committee Members during my last presentation. I am really indebted to DSTBT, GoWB for providing me the fund for carry out this research at my Institute.

I am here by submitting the five nos. of hardcopies with original signatures of 1<sup>st</sup> UC, Audited SoE and Yearly Progress Report with publications etc. related to the said R&D Project for your consideration with a request to release the next installment at the earliest. I have already uploaded the softcopies/ pdf of these documents at Vigyansathi Portal from my dashboard on 3-12-2021.



I am ready to go for presentation before the Expert Committee as and when called for.

Thanking you.

With best regards,

Sincerely yours,

*Amrit Krishna Mitra*

DR. AMRIT KR. MITRA

Asst. Professor  
WSE S-G-1  
Dept. of Chemistry

Govt. General Degree College, Singur

PI – Name: Dr. Amrit Krishna Mitra,

Designation: Assistant Professor of Chemistry,

Government General Degree College, Singur

Email: [amritsepistles@gmail.com](mailto:amritsepistles@gmail.com), 9432164011

Registration id & date: 57/ASTP/M/C\_49358/21, 2019-11-21

Application id & date: 0226/RND/CHS/C\_49358/Feb-2021/1/1, 2021-02-19

*Brotati Chakraborty*

Co-PI- Name: Dr. Brotati Chakraborty

Designation: Assistant Professor of Chemistry, Bejoy

Narayan Mahavidyalaya, Itachuna

Email: [brotati07@gmail.com](mailto:brotati07@gmail.com), 9433701100

Registration id & date: 642/ASTP/F/C\_44658/21, 2019-11-21

Assistant Professor  
Department of Chemistry  
Bejoy Narayan Mahavidyalaya  
Itachuna, Hooghly

Enclo: as stated

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

Date: 24.11.2021

No.

1. Name of the Grantee Institute (s) : Government General Degree College, Singur
2. Sanctioning Authority: West Bengal State Council of Science & Technology
3. Sanction Order Number & Date : 1855(Sanc.)/ST/P/S&T/15G-5/2019 Date: 14/02/2020
4. Amount Sanctioned : Rs. 1,10,000/- [Rupees One Lakh Ten Thousand Only]
5. Drawing & Disbursing Officer : AO, WBSCST
6. Treasury/PAO : -  
[From where the bill was drawn]
7. Bill No. & Date : -
8. T. V. No. & Date: -
9. Amount Drawn : Rs. 1,10,000/-
10. Unspent Balance of Previous year, if any : NA
11. Amount Utilised : Rs. 1,10,000/-
12. Unspent Balance, if any, in Current year : NA
13. Purpose of Utilisation : R&D project entitled Synthetic engineering of multitasking small-molecule heterocyclic fluorophores that juggle environmental sensitivity and biological significance

**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. SOE (Statement of expenditure)

Date 24/11/2021

Dr. SANTANU CHAKRABARTI  
WBSES

PRINCIPAL

GOVT GENERAL DEGREE COLLEGE, SINGUR

Signature with Official Stamp



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



**Yearly Progress Report**

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

PI – Name: Dr. Amrit Krishna Mitra,

Designation: Assistant Professor of Chemistry, Government General Degree College, Singur

Email: amritsepistles@gmail.com

Registration id & date: 57/ASTP/M/C\_49358/21 , 21-11-2019

Application id & date: 0226/RND/CHS/C\_49358/Feb-2021/1/1 , 19-02-2021

Co-PI- Name: Dr. Brotati Chakraborty

Designation: Assistant Professor of Chemistry, Bejoy Narayan Mahavidyalaya, Itachuna

Email: brotati07@gmail.com

Registration id & date: 642/ASTP/F/C\_44658/21 , 21-11-2019

**2. Title of the R&D Project:**

Synthetic engineering of multitasking small-molecule heterocyclic fluorophores that juggle environmental sensitivity and biological significance

**3. Name and postal address of the Institute of the PI and Co-PI (if any):**

Institute of PI - Government General Degree College, Singur **Address:** Jalaghata, Singur, Hooghly: 712409

Institute of Co-PI - Bejoy Narayan Mahavidyalaya, Itachuna **Address:** Itachuna, Hooghly: 712147

**4. Total Approved Budget:** 2,20,000/-

**5. First Sanctioned G. O. No. & Date:** 1855(Sanc.)/ST/P/S&T/15G-5/2019, Date: 14-02-2020

**6. Date of Commencement of the Project:** 28-08-2020

**7. Total Duration of the Project (One year/ Two year/ Three year):** Three years

**8. Last Sanctioned G. O. No. & Date (for which the Yearly Progress Report is given):**

1855(Sanc.)/ST/P/S&T/15G-5/2019, Date: 14-02-2020

**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/ 2<sup>nd</sup> year/ 3<sup>rd</sup> year:**

Development of new small molecule environment sensitive heterocyclic fluorophores is always an important field of research in biology, bio-technology and medicine. Our target is to develop a new class of small molecule fluorophores based on heterocyclic skeleton. The environment sensitivity, interactions

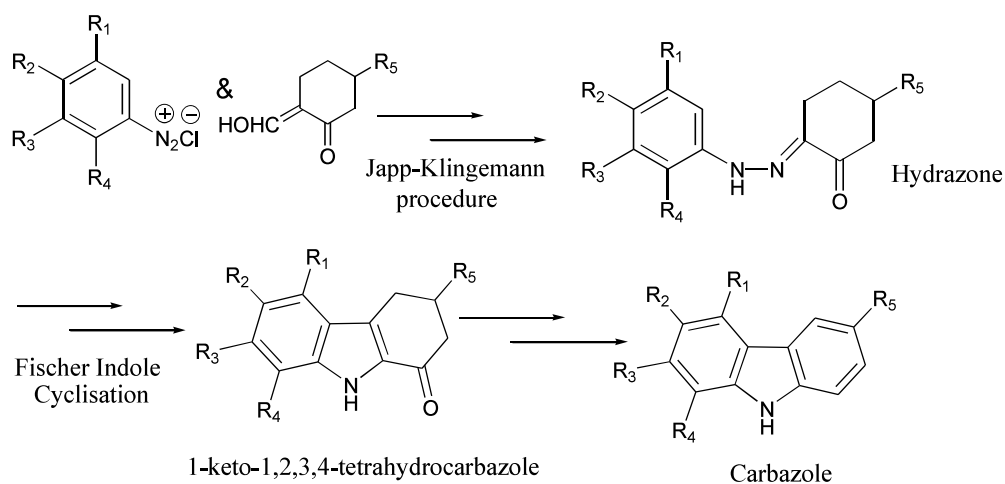
with amines, amino acids, cyclodextrins, micelles and proteins are the primary objectives of this research. Development of such fluorophores having biological significances will definitely make a mark in the field of photochemistry and those of medicinal chemistry and material science. These small molecule fluorophores probably can act as light emitting diodes, potential photosensitive biological units, fluorescent markers (with respect to amino acids, peptides, proteins, carbohydrates etc.) in biology, photo-induced electron sensors and in diverse fields of chemistry (photoelectrical dyes, supramolecular recognitions and medicinal chemistry). Since many of the carbazole and indole derivatives are famous for their wide range of biological activities, it has been the core research objective to synthesise several fluorescent derivatives of carbazoles and indoles and to study their photophysics in diverse environments.

Serial	Quantifiable Landmarks	Months
1	Laboratory Set-up and synthesis of heterocyclic fluorophores (based on Indole skeleton). Characterization of this fluorophores using IR, <sup>1</sup> H NMR, <sup>13</sup> C NMR, HRMS data.	1 - 12 months
2	Photophysical studies of these compounds.	12 - 24 months
3	Molecular docking analysis and biological studies (if the fluorophores are found to be bio-active)	24- 36 months

#### **11. Achievement(s) of the Objective/ Academic Landmark (till date of Report):**

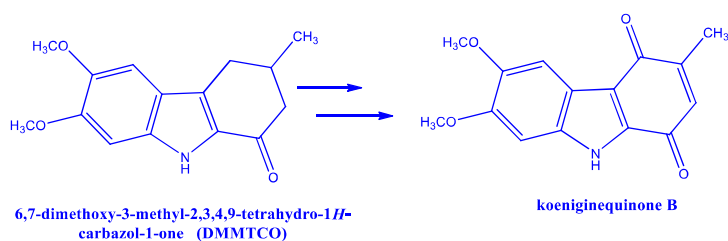
We have synthesised a few fluorophores based on 1-keto-1,2,3,4-tetrahydrocarbazole [KTHC] skeleton. Japp-Klingemann reaction has been used to synthesise several hydrazones followed by Fischer Indole Cyclisation to obtain the said skeleton [Scheme 1].





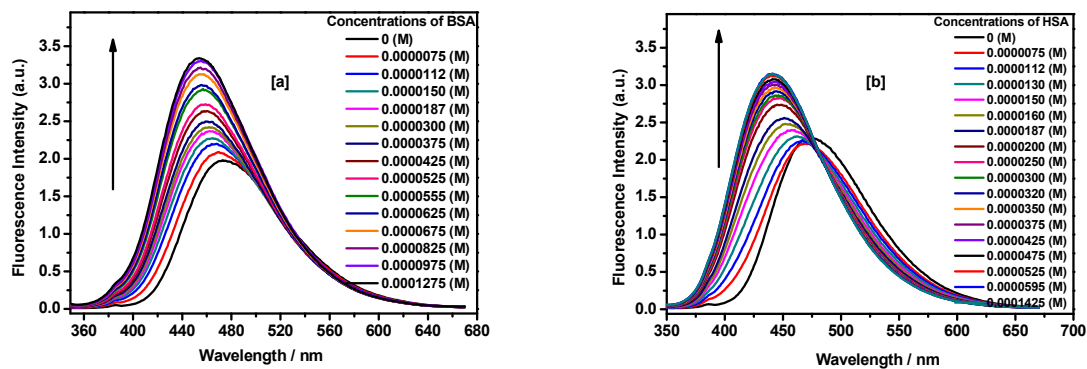
**Scheme 1:** Synthetic outline to obtain derivatives of 1-keto-1,2,3,4-tetrahydrocarbazole.

We have performed the detailed photophysical studies of a newly synthesized fluorophore, 6,7-dimethoxy-3-methyl-2,3,4,9-tetrahydro-1H-carbazol-1-one (DMMTCO). DMMTCO is a synthetic precursor of koeniginequinone B (biologically active carbazolequinone) [Scheme 2].

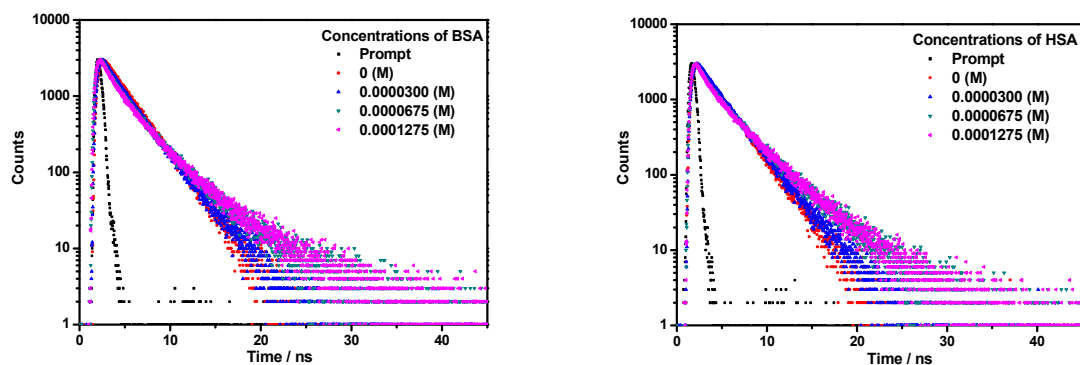


**Scheme 2:** Representative structures of 6,7-dimethoxy-3-methyl-2,3,4,9-tetrahydro-1H-carbazol-1-one (DMMTCO) and Koeniginequinone B.

Spectroscopic and photophysical study of this molecular system in serum albumin media has been performed meticulously for a better understanding of the nature of binding and bio-distribution in the body. Steady states as well as time-resolved fluorescence techniques have been used as extremely sensitive monitors to explore the interactions between the abovementioned ones [Scheme 3 and Scheme 4].

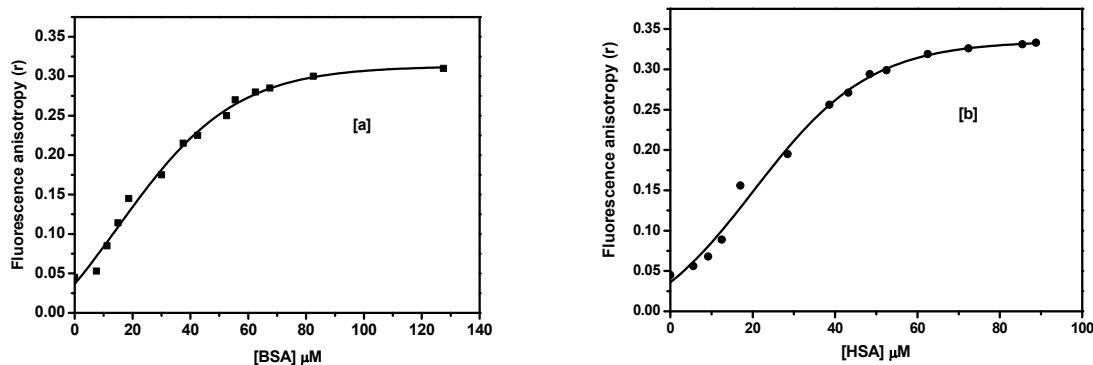


**Scheme 3:** Fluorescence emission spectra of DMMTCO in presence of different concentrations of (a) BSA and (b) HSA. Emission spectra have been taken exciting the samples at their corresponding absorption maxima.



**Scheme 4:** Fluorescence lifetime plots of DMMTCO (excited using a 340 nm LED) in presence of BSA (a) and HSA (b). Concentration of the compound is  $1 \times 10^{-6}$  M.

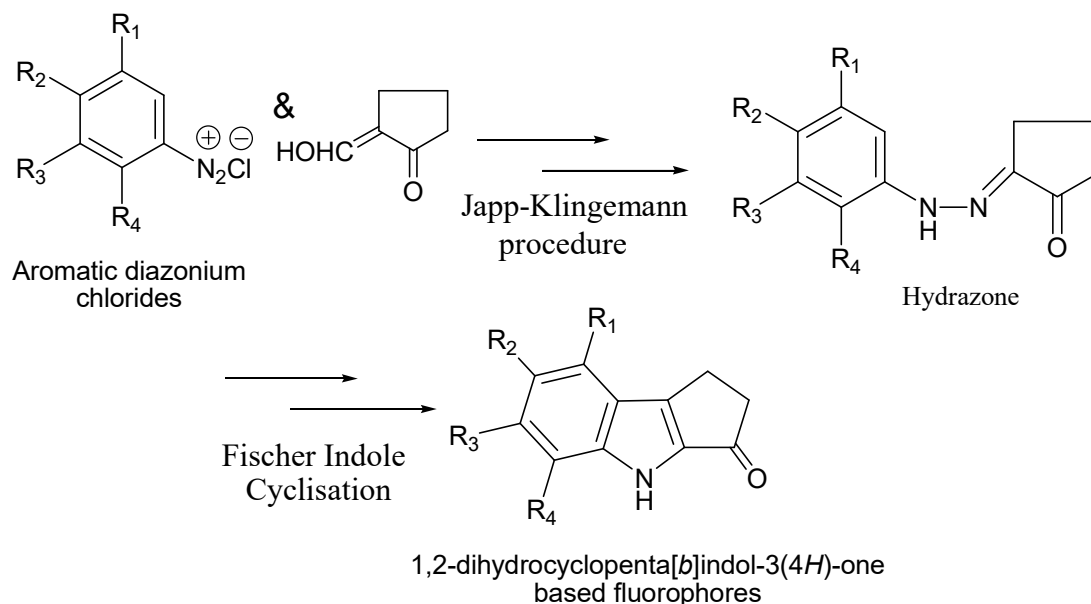
Fluorescence anisotropy study has been performed to assess the degree of restrictions imparted by the micro-environments of serum albumins [Scheme 5].





**Scheme 5:** Variation of fluorescence anisotropy ( $r$ ) of DMMTCO with increasing concentrations of BSA (a) and HSA (b).  $\lambda_{em}$  is 453 nm for BSA and 440 nm for HSA. Concentration of the compound is  $1 \times 10^{-6}$  M.

Another series of new fluorophores have been synthesised [Scheme 6].



**Scheme 6:** Synthetic outline to obtain derivatives of 1,2-dihydrocyclopenta[b]indol-3(4H)-one.

Throughout this spectroscopic endeavour attention has been paid to compare the photophysical responses of the said fluorophore within bio-environments of two different albumins.

## 12. If there is any shortcomings to achieve the objective(s), reason(s) thereof:

We have not been able to synthesise some more fluorophores. Even the biological studies of these skeletons have not been performed yet.

It was due to the Covid-19 pandemic situation that most of the academic and research institutions were not accessible. Hopefully, the pending works can be performed in the second year of the project.

## 13. Physical Progress during the reporting year:

We have been able to synthesise a few fluorophores. However, detailed photophysical studies have been performed on a single fluorophore, 6,7-dimethoxy-3-methyl-2,3,4,9-tetrahydro-1H-carbazol-1-one (DMMTCO). The photophysics of DMMTCO in several homogeneous and microheterogeneous systems have been studied in detail.

In this respect, it is worthwhile to mention that a review article has been published by the principal investigator on the synthesis, photophysical and biological studies of carbazole. A book chapter has also been published on the photophysical properties of 1-keto-1,2,3,4-tetrahydrocarbazole based fluorophores. Again, as we all know, neurotransmitters play the role of electrochemical signalling molecules which are essential for suitable brain functioning. Their dysfunction causes several mental and health disorders. Neurotransmitters are present at a very low concentration in the nervous system and they are mixed with many other biochemical molecules. The neuropeptides oxytocin and vasopressin are the most interesting molecules for social neuroscience and there is a considerable genetic and structural resemblance between these structures. We have planned to study the interactions (if any) between the newly synthesised fluorophores and the neuropeptides oxytocin and vasopressin.

A review article has been published on oxytocin and vasopressin showcasing the chemistry, the social and the psychobiological importance of oxytocin and vasopressin.

#### **14. Quantitative indication of the actual progress vis-à-vis the original proposal submitted to DSTBT (as per Work Plan and Timeline):**

For the past one year, a detailed literature survey has been performed and a few fluorophores have been synthesised. Detailed photophysical studies were carried out on one of such fluorophores. Three papers and one book chapter have been published in several UGC approved journals.

However, the synthesis of more such new fluorophores, their biological and photophysical studies are pending. Quantitatively, 25% progress has been made with respect to the original proposal submitted to



DSTBT. Due to the pandemic, most of the academic and research institutions restricted physical entry, thereby hampering the progress to a certain extent. Hopefully, we shall be able to perform better in the ongoing year.

**15. Physical Achievement and Translational Outcome till date, particularly, how the result will help the common people of our State:**

Designing and characterizations of small molecule environment sensitive fluorophores are extremely significant in the viewpoint of bio-chemical and bio-physical studies. They are extremely precious owing to their capability to probe micro-environments which can decipher bulk information in the study of molecular biology, drug discovery, material science, tissue diagnostics, environmental indicators, enzyme substrates and cellular staining agents. Although numerous fluorophores are known in the form of coumarins, fluoresceins, cyanines, oxazines, pyrenes, quinines, bodipy dyes etc., the quest for newer ones is still on as they are extremely essential to visualize a biochemical process. This research venture involves synthesis and photo-physical studies of a new family of fluorophores. Even the interactions of these fluorophores with several biomolecules, neuropeptides and metal ions undoubtedly constitute an important research that will be helpful for the common people of our state especially focussing on the development of new drugs and biomarkers.

**16. No. of papers published/ communicated (with copy) and Book/ Book Chapter/ Book Edited etc.:**

Three papers and one book chapter has been published through this project.

**1. Journal of the Iranian Chemical Society [Springer Nature, Impact Factor: 2.019]  
Indexed in Scopus, UGC-CARE List (India) and others**

Mitra, A.K. Sesquicentennial birth anniversary of carbazole, a multifaceted wonder molecule: a revisit to its synthesis, photophysical and biological studies. *J IRAN CHEM SOC* (2021).  
<https://doi.org/10.1007/s13738-021-02444-0>.

**2. Current Science [Current Science Association along with the Indian Academy of Sciences. Impact Factor: 1.102].**

**Indexed in Web of Science, Scopus, UGC-CARE List (India) and others**

Mitra, A. K. (2021). Asima Chatterjee, one of the brightest stars in the galaxy of organic chemistry. *Current Science* (00113891), 127(7).

**3. AIMS Molecular Science [AIMS Press. Impact Factor: NA]**

**Indexed in Web of Science, UGC-CARE List (India) and others**

Mitra, A. K. (2021). Oxytocin and vasopressin: the social networking buttons of the body. *AIMS Molecular Science*, 8(1), 32-50.

**4. Book chapter Published by : LINCOLN UNIVERSITY COLLEGE, Malaysia**

Mitra, A. K. (2020). Introducing a New Family of Fluorophores: Keto-tetrahydrocarbazole. *Modern Approaches in Chemical and Biological Sciences*, 18. [doi:10.31674/book.2020.macbs]

**17. Patents applied (if any): We have not applied for any patent till date. Hopefully, we shall try to do it in future.**

**18. Remaining Work to be done for the next year:**

- A. Synthesis of some new small molecule heterocyclic fluorophore.
- B. Photophysical studies in several environments.
- C. Study related to the interactions of these compounds with several biomolecules.
- D. Biological studies of these compounds.

**19. Budget utilization as per the sanctioned heads:**



Sl No	Sanctioned Heads as per Budget	Amount allotted as per Sanctioned Budget (A)	Expenditure made during the reporting year (B)	Unspent Balance (C=A-B)	Remarks, if any
1.	Consumables	1,00,000/-	1,00,000/-	--	Chemicals and glass goods have been bought for the smooth execution of the project.
2.	Other costs	5,000/-	5,000/-	--	This sanctioned budget has mainly been utilized to buy stationery and a certain amount (2,360/-) from this sanctioned budget has been paid to the Journal Current Science for the print of colour pages for one of the published articles.
3.	Travel	5,000/-	5,000/-	--	Numerous visits were made to various intuitions during the lockdown period.
4.	--	--	--	--	--
	Total	1,10,000/-	1,10,000/-	--	

20. Any other Special Achievement/ Translational value etc.: No other special recognition has been achieved till date. We still have two years' time and hopefully something beneficial can be made.

*Amrit Krishna Mitra*  
**DR. AMRIT KR. MITRA**  
 Asst. Professor  
 W.B.E.S.-G.T.A.  
 Dept. of Chemistry  
 Govt. General Degree College, Singur

PI – Name: Dr. Amrit Krishna Mitra,

Designation: Assistant Professor of Chemistry,  
 Government General Degree College, Singur

Email: [amritsepistles@gmail.com](mailto:amritsepistles@gmail.com), 9432164011

Registration id & date: 57/ASTP/M/C\_49358/21, 2019-11-21

Application id & date: 0226/RND/CHS/C\_49358/Feb-2021/1/1, 2021-02-19

*Brotati Chakraborty*  
**Assistant Professor**  
 Department of Chemistry  
 Bejoy Narayan Mahavidyalaya  
 Itachuna, Hooghly

Co-PI- Name: Dr. Brotati Chakraborty

Designation: Assistant Professor of Chemistry, Bejoy Narayan Mahavidyalaya, Itachuna

Email: [brotati07@gmail.com](mailto:brotati07@gmail.com), 9433701100

Registration id & date: 642/ASTP/F/C\_44658/21, 2019-11-21

# Audited Statement of Expenditure (Audited-SoE)

Standard Form - III

- Name of the PI and Co-PI (if any) with designation, mobile no., e-mail id, Registration id & date and Application id & date (Vigyansathi Portal):  
PI - Name: Dr. Amrit Krishna Mitra,  
Designation: Assistant Professor of Chemistry, Government General Degree College, Singur  
Email: [amritsepistlcs@gmail.com](mailto:amritsepistlcs@gmail.com)  
Registration id & date: 57/ASTP/M/C\_49358/21, 21/11/2019  
Application id & date: 0226/RND/CHS/C\_49358/Feb-2021/1/1, 19/02/2021  
Co-PI- Name: Dr. Brotati Chakraborty  
Designation: Assistant Professor of Chemistry, Bejoy Narayan Mahavidyalaya, Itachuna  
Email: [brotati07@gmail.com](mailto:brotati07@gmail.com)  
Registration id & date: 642/ASTP/F/C\_44658/21, 21/11/2019
- Title of the R&D Project: Synthetic engineering of multitasking small-molecule heterocyclic fluorophores that juggle environmental sensitivity and biological significance
- Name and postal address of the Institute of the PI and Co-PI (if any):  
Institute of PI - Government General Degree College, Singur Address: Jalaghata, Singur, Hooghly: 712409  
Institute of Co-PI - Bejoy Narayan Mahavidyalaya, Itachuna Address: Itachuna, Hooghly: 712147
- First Sanctioned G. O. No. and Date: 1855(Sanc.)/ST/P/S&T/15G-5/2019 Date: 14/02/2020
- Date of Commencement of the Project: 28/08/2020
- Total Duration of the Project (One year/ Two year/ Three year): Three year
- Last Sanctioned G. O. No. and Date (for which the Audited SoE is given): 1855(Sanc.)/ST/P/S&T/15G-5/2019 Date: 14/02/2020
- Reporting Year of this Audited SoE (1<sup>st</sup> year/ 2<sup>nd</sup> year/ 3<sup>rd</sup> year): 1<sup>st</sup> year

Sl No	Sanctioned Heads as per Budget	Amount allotted as per Sanctioned Budget (A)	Expenditure made during the reporting year (B)	Unspent Balance (C=A-B)	Remarks, if any
1.	Consumables	1,00,000/-	1,00,000/-	-	Chemicals and glass goods have been bought for the smooth conduction of the project.
2.	Other costs	5,000/-	5,000/-	-	This sanctioned budget has mainly been utilized to buy stationaries and a certain amount (2,360/-) from this sanctioned budget has been paid to the Journal, Current Science for the print of colour pages for one of the published articles.
3.	Travel	5,000/-	5,000/-	-	Numerous visits were made to various intuitions during the lockdown period.
	Total	1,10,000/-	1,10,000/-	-	

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, GoWB.

AMRIT KRISHNA MITRA

Amrit Krishna M. 28/10/21

Name & Signature with date of Principal Investigator with Official Seal

Assistant Professor  
WBES  
Govt. Gen. Degree College  
Singur, Hooghly

Name & Signature with date of Head of the Institution with Official Seal  
Dr. SANTANU CHAKRABARTI

PRINCIPAL  
GOVT. GENERAL DEGREE COLLEGE, SINGUR

Name & Signature with date of Chartered Accountant with Official Seal  
M. NO. 051492







**P. K. DHAR & CO.**  
Chartered Accountants

Phone : 2230-5796  
MERCANTILE BUILDINGS  
(2nd Floor)  
9, Lal Bazar Street, Kolkata - 1

**Utilisation certificate**

This is to certify that out of Rs. 1,10,000/- (One lakh ten thousand) only, sanctioned by Department of Science & Technology, Govt. of West Bengal for implementing the project "Synthetic engineering of multitasking small-molecule heterocyclic fluorophores that juggle environmental sensitivity and biological significance" in favour of Government General Degree College, Singur PIN- 712409, vide sanctioned letter no. 1855(Sanc.)/ST/P/S&T/15G-5/2019 Date: 14/02/2020 and Rs. NIL on account of unspent balance of the previous year, a sum of Rs. 1,10,000/- (One lakh ten thousand) only has been utilised for the purpose for which it was sanctioned.

Certified that I have satisfied myself that the condition on which the Grant-in-Aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

**Kind of checks**

Cash Book, Pass Book,  
Vouchers etc.

For P.K. DHAR & Co.  
Chartered Accountants.

Place: Kolkata

Dated: 24-11-2021



(Pradip Kumar Dhar)  
Proprietor.

M.No. 051492  
UDIN21051492AAAAET9S90

# SREEGOPAL BANERJEE COLLEGE

ESTD.-1958

( Government Sponsored )

Accredited with B-Grade in Second Cycle Accreditation by NAAC

Vill.: Bagati, P.O.: Magra,  
Dist.: Hooghly, Pin : 712148,  
West Bengal



Phone : (033) 2684-4124, 2684-2706  
Tel. Fax : 2684-2706  
e-mail : sgbc\_2003@yahoo.com

Ref. No. ....

Date 23.04.2018

To,

Dr. Pinak Dutta

Associate Professor

Department of Chemistry

Bejoy Narayan Mahavidyalaya

Itachuna, Hooghly

Sir,

Sub: Collaborative research

It's a privilege and honour for me to collaborate with you and your institution on the projects related to detection of fatty acid profiles of various indigenous fishes primarily consumed by the people of the eastern region of India and protein isolates of *Alstonis scholaris*. Please share with me your proposals in detail so that I can work on it and give my views before starting our laboratory work.

Looking forward for an interesting and fruitful venture.

Regards

*Mita Dutta*  
23/04/18

(Mrs. Mita Dutta)

Associate Professor & Head

Department of Chemistry

Sreegopal Banerjee College

Bagati, Magra, Hooghly

Head of the Dept of Chemistry  
S.G.B. College, Bagati  
Mogra, Hooghly.

*No objection  
in collaborating the research  
without ramping her regular  
duties in the college.  
PC/23/4/2018*

*in-charge  
Sreegopal Banerjee College  
Bagati, Magra, Hooghly*







सत्यमेव जयते



Principal's Chamber: (03561) 255131

Office: (03561) 255132

Fax: (03561) 255131

E-mail: principal@jgec.ac.in


**GOVERNMENT OF WEST BENGAL**  
**DEPARTMENT OF CHEMISTRY**  
**JALPAIGURI GOVT. ENGG. COLLEGE**  
**JALPAIGURI – 735102**

Ref. No. ....

Dated, The .....

**TO WHOM IT MAY CONCERN**

This is to certify that Dr. Animesh Layek, Assistant Professor of Physics of Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly-712147 is a long time collaborator of the undersigned on the research area of the synthesis and characterization of nanooxide. Dr. Layek primarily collaborates on investigating and interpreting the photoelectric properties of the metal nonoxides synthesized in my laboratory since 2016 and we had a joint publication entitled "*Temperature dependent growth of cadmium(II) oxide nanocrystals: studies on morphology based optical, electrical and dielectric properties*" published in the Journal: *J Mater Sci: Mater Electron* and few more is expected to be published in near future.

 30.04.2019  
Associate Professor (W.B.E.S.) & HOD  
Department of Chemistry  
Jalpaiguri Govt. Engineering College  
Jalpaiguri 735102  
Dr. Shyamapada Shit  
Associate Professor of Chemistry (W.B.E.S.) &  
Head of Chemistry  
Jalpaiguri Govt. Engineering College  
Jalpaiguri 735102



भारतीय गैर न्यायिक

दस  
रुपये  
रु.10



TEN  
RUPEES  
Rs.10

INDIA NON JUDICIAL

পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

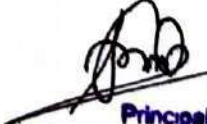
45AB 680619

Date:- 22.12.2020

আমরা (Khanyan Cricket Academy), বিজয়নাথপুর  
মহাবিদ্যালয়ের খেলার মাঠে প্রতি বছর ক্রিকেট টুর্নামেন্ট  
করিয়ে থাকি, এবং Coaching এর ব্যবস্থা আছে।  
একটি ডেস্ক এবং একটি সেক্টর থেকে  
বিজয়নাথপুর মহাবিদ্যালয়ে প্রতি বছর ১০,০০০ টাকা  
অর্থ প্রদান করিয়ে থাকি এবং মহাবিদ্যালয়ের ছাত্রছাত্রীদের  
বিনামূল্যে একটি এর ব্যবস্থা করিয়ে থাকি।

Bireshwar Singh

সভাপতি  
খানান ক্রিকেট একাডেমী

  
Principal  
Bejoy Narayan Mahavidyalaya  
P.O. - Itchuna, Dt. - Hooghly.

Kashi Nath Ghosh

সম্পাদক  
খানান ক্রিকেট একাডেমী

সভাপতি  
খানান ক্রিকেট একাডেমী



- 1) No other coaching camp will be able to use this ground unless it is written in the college permit.
- 2) Khanyan Cricket Academy & Coaching Centre will be forced to leave the ground for any event of the college.
- 3) The ground of the college is maintained by Khanyan Cricket Academy & Coaching Centre with the permission of the college.
- 4) Any New development of the ground will be made with the written permission of the college.
- 5) If all the condition is well done according to the agreement, then during the renewal of the next agreement the college should have their 1<sup>st</sup> priority to Khanyan Cricket Academy & Coaching Centre.
- 6) All the instrument of the Khanyan Cricket Academy & Coaching Centre (i.e. Cricket Net, Ball, Chair, wicket, Table, Garden Umbrella, side screen etc.) which is used for development of the camp as well as cricketer would have a authority to take the above said camp if the agreement w not be approved for the future.
- 7) Khanyan Cricket Academy & Coaching Centre can able to arrange crick match on the ground in the whole year.
- 8) In future if any dispute arise both the party would have solve the problem on good faith.
- 9) Khanyan Cricket Academy & Coaching Centre should be bounded to pay Rs. 10,000/- (Ten Thousand) ~~within the specified time (said on~~ per year for five years..

Kashi Nath Ghosh

স্বাক্ষর  
খান্যান ক্রিকেট একাডেমী

Bireswar Singh 22/11/2020  
স্বাক্ষর  
খান্যান ক্রিকেট একাডেমী



**Agreement for lease of the college playground in front of College Hostel**

This agreement for lease of the College Playground situate at in front of college hostel (details address) in made on 22nd day of Dec. in the year 20 20

**BETWEEN**

College Authority as the "lease" of the First Part.

**AND**

Khanyan Cricket Academy hereinafter called Second Part.

Whereas the party hereto of the First and Second Part were made an agreement for the lease of the college playground situated at in front of college hostel (details address of the college) to the second party for Rs.10,000/- (Rupees ten thousand) yearly for 5 (Five) years.

Birendran Singh 22/12/2020

স্বাক্ষরিত  
খানান ক্রিকেট একাডেমী

Principal  
Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, Dt.- Hooghly. 22/12/2020

Kashi Nath Ghosh  
স্বাক্ষরিত  
খানান ক্রিকেট একাডেমী

# KHANYAN CRICKET ACCADEMY & COACHING CENTRE

ESTD : 2021

KHANYAN ★ HOOGHLY



Ref. No. ....

Date ... 15.12.2020

মাননীয় প্রধান,

ইচুনা খান্য়ান গ্রামপঞ্চায়ত  
খান্য়ান, হুগলী

মহাশয়! আমরা ইচুনা কলেজের মাঠে 'খান্য়ান জিলা  
উচ্চমাধ্যমিক স্কুল' কোচিং সেন্টার 'নাথন একাডেমি জিলা  
কোচিং সেন্টার' চালানছি। তবে বিধি অনুসারে  
অনুমতি প্রার্থনা করছি।

স্বাক্ষর

প্রদান, হুগলী

  
15/12/2020  
Prodhan  
Itachuna-Khanyan Gram Panchayet  
Khanyan, Hooghly

কশিনাথ  
কশিনাথ ঘোষ  
Kashinath Ghosh





Ref. No. ....

Allowed to play ~~23/12/2020~~

Date 19/12/2020

ജാതനാമം = ആഴ്ച,  
 വിശുദ്ധ നാമങ്ങൾ = ജ്ഞാനവിജ്ഞാനം,  
 ഉപാസന, ഇനാമം.

ବିଷୟ : ଶ୍ରୀମଦ୍ଭଗବତ୍ ଗୀତାରେ ଉଲ୍ଲେଖିତ ଶ୍ରୀକୃଷ୍ଣଙ୍କ ଶତ ଗୁଣ  
 ଶ୍ରୀକୃଷ୍ଣଙ୍କ ଶତ ଗୁଣ ଉଲ୍ଲେଖିତ ଶ୍ରୀକୃଷ୍ଣଙ୍କ ଶତ ଗୁଣ

8127242F

ଆମରା ନିମ୍ନକ୍ରମାଂଶକାରୀ ପ୍ରାକୃତିକ ଗୁଣ ଯଥା ଶକ୍ତି ଆମରାକ  
 ଜ୍ଞାନାତ ଯଥା ଯେ, କାର୍ଯ୍ୟାବିଧାନମାନଙ୍କ ଯୋଗେ ଯଥା ଶକ୍ତି ଆମରା  
 ଆମରା ପ୍ରକୃତି ଯୋଗେ ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା  
 ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା  
 ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା  
 ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା  
 ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା  
 ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା ଯଥା ଶକ୍ତି ଆମରା

[illegible]

বিশ্বীকৃত

Bireshwar Singh

সভাপতি  
খন্দ্যান ক্রিকেট একাডেমী

Kashi Nath Ghosh

সম্পাদক  
খানান ক্রিকেট একাডেমী





# KHANYAN CRICKET ACADEMY & COACHING CENTRE

ESTD : 2021

KHANYAN ★ HOOGHLY

Date 19/12/2020

Ref. No. ....

মাননীয় = অধ্যক্ষ,  
বিক্রম নাথ = মহাবিদ্যালয়,  
ইচাড়া, উত্তর মেদিনীপুর,

বিষয় : মহাবিদ্যালয়ের হোষ্টেল মা.লগ্ন মার্চ ক্রিকেট  
প্রকারভেদে ও মার্চ খেলায় অনুমোদনের আবেদন।

মহোদয়,

আমরা নিম্নস্বাক্ষরকারী ব্যক্তিগণ এই মর্মে আপনাকে  
জানতে চাই যে, মহাবিদ্যালয়ের হোষ্টেল মা.লগ্ন মার্চ  
আমরা একটি ক্রিকেট প্রকারভেদে চালু করতে চাই। পাশাপাশি  
এর আর্থিক হিসাবে বিভিন্ন সমস্যা বিভিন্ন ধরনের মাঝে মার্চ  
এর আয়োজনও সম্ভব চাই। আমরা উল্লেখ্য থাকে যে,  
মার্চ বর্তমানে ডিইউ বলে খেলায় উন্নতি অবস্থায় নেই  
আমরা আমদের নিজেদের অর্থায়ন মার্চ ডিইউ বলে ক্রিকেট  
খেলায় উন্নতি করে তুলবো।

আমরা অর্থায়নও থাকবে এই বিষয়ে যে, মহাবিদ্যালয়  
বিক্রম নাথের কাছে কোন সমস্যা মার্চ চালু করে থাকবে।

অতএব মহোদয় আপনাস নিজে নিজে নিজেই এই যে,  
আমাদের এই আবেদনটি অনুমোদনসহ বিবেচনা করে  
আয়োজনটি অনুমোদন করে করে বাতিল করবেন।

বিনীত,

Bireshwar Singh

সভাপতি  
খন্ধান ক্রিকেট একাডেমী

Kashu Nath Ghosh

সম্পাদক  
খন্ধান ক্রিকেট একাডেমী



மனநிலை அமைதி,  
நினைவு - நாளைக்கு - ம  
உயர்வு, இயல்பு,

5/7/21  
You will be permitted  
to use for this serv.  
only after the paymer  
of Rs 10,000 (Ten  
thousand only) to our  
college a/c no. 1668000  
100056386 PNB  
Khangaini. *[Signature]*

3/12/2020  
Principal  
Bejoy Narayan Mahavidyalaya  
P.O.- Itachuna, DL- Hooghly.

[illegible]

ਸਰਕਾਰ,

[illegible]

ଅମରା ଅମରାବତୀ ସାକାଶୀ ଶ୍ରୀ ବିଷୟ ଯେ  
 ଶ୍ରୀମଦ୍ରାମାୟା ଶ୍ରୀମଦ୍ରାମାୟା ଯେ ଶ୍ରୀମଦ୍ରାମାୟା  
 ଶ୍ରୀମଦ୍ରାମାୟା ଶ୍ରୀମଦ୍ରାମାୟା

ଅନ୍ତର ମହାକାୟ = ଆମକାୟ = ନିକଟ ବିନୀତି = ନିରନ୍ତର =  
 ନିରାହୁତ = ଯଦି ତଥା, ଆକାଶକାୟ = ଯଦି ଆକାଶକାୟ ଅନୁମୟମାନଙ୍କ =  
 ବିବେଚନା କରେ ଆକାଶକାୟ ଅନୁମୟମାନଙ୍କ = ଯଦି ଯଦି ଯଦି =  
 ଯଦି ଯଦି =

— 224 —

Bireshwar Singh  
17/12/2020  
सडापति  
बनान क्रिकेट एकाडेमी

Kashi Nath Bhush  
 17/12/2020  
 সম্পাদক  
 খনিয়ান ক্রিকেট একাডেমী





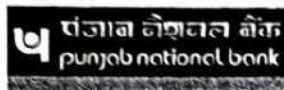
નિવેશન : અમરકાંતના સેવક દેવદાસ = ૫૦.૦૦૦ રૂપિયા =  
 રાજકોટ = ૫૦૦૦. ૦ રૂપિયા = ૫૦૦૦૦ રૂપિયા  
 ભાવનગર

ଆମରା ନିଶ୍ଚୟାହୁରାଣୀ = ପ୍ରତିପଦ = ଏହି = ମାତ୍ର = ଆମରାକ =  
 ହୁଣାକ = ପ୍ରତି = ସେ, ମହାପ୍ରଭୁମାନଙ୍କ = ଦୋଷେ = ମା. କଥା = କାହିଁ  
 (ଆମରା = ପ୍ରତି = ହିକାୟ = ହୁଣା). ଏବଂ ଆମରାହୁର = ବସତେ = ପ୍ରତି,  
 ମହାପ୍ରଭୁମାନଙ୍କ = ଏହି = ହୁଣା. ଏବଂ ଆମ = ହିମାବ = ହିମିନ୍ନୁ = ମହାବ =  
 ହିମିନ୍ନୁ = ହୁଣା = ମହାବ = ମାତ୍ର = ଏବଂ ଆମରାହୁର = ବସତେ = ପ୍ରତି,  
 ଆମରା = ହୁଣା = ଆକ = ସେ, କାହିଁ = ବର୍ତ୍ତମାନ = ଦିହତ୍ ବଳେ =  
 ହେଲାବ = ହିମାବ = ବସତେ = ଏହି, ଆମରା = ଆମରାହୁର = ନିହେହୁର =  
 ବସତେ = କାହିଁ = ଦିହତ୍ = ବଳେ = ହିକାୟ = ହେଲାବ = ହିମାବ =  
 ବସତେ = ଆମରା =

ଅମରା = ଅମରା/କାନ୍ଧବତୀ = ସାକାମା = ଅର୍ଥ = ବିଷୟ = ଯେ,  
 କାନ୍ଧବତୀ/କାନ୍ଧବତୀ = ନିକଟ = ଆଶାକୃତ = ଯେ = ଯେନାମକାମା =  
 କାନ୍ଧବତୀ = କାନ୍ଧବତୀ = କାନ୍ଧବତୀ = ସାକାମା =

ଶ୍ରୀକୃଷ୍ଣ ମହାଭାରତ = ଆମର = ଶିକ୍ଷା ଦିଅ = ନିଜେ  
 ନିଜେ ମଧ୍ୟ ଏ, ଶ୍ରୀକୃଷ୍ଣ = ଶ୍ରୀ ଆତ୍ମାନୁଷ୍ଠାନ ଶ୍ରୀମହାଭାରତ =  
 ବିବେଚନା କରି ଶ୍ରୀକୃଷ୍ଣାନୁଷ୍ଠାନ = ଶ୍ରୀକୃଷ୍ଣାନୁଷ୍ଠାନ = ଶ୍ରୀକୃଷ୍ଣାନୁଷ୍ଠାନ =  
 ଶ୍ରୀକୃଷ୍ଣାନୁଷ୍ଠାନ =

Kashi Nath Ghosh



शाखा/Branch \_\_\_\_\_

दिनांक  
Date 23/12/2020

बचत/चात/ओडी/नकद उधार/आवर्ती जमा/आवधिक ऋण/मांगऋण खाता संख्या/  
क्रेडिट कार्ड संख्या SF/CA/OD/CC/RD/TL/DL A/c No./Credit Card No.

1668000100056386

नाम/Name B. N. Mahabidyalaya

दूर/Tel. \_\_\_\_\_

राशि  
Amount ₹ 10,000/- पैसे/P. 00

राशि शब्दों में/Amount(In words)Rs Ten thousand

पंनेई/PNB-154(R) 20-21(50) SPF

चेक नं. एन बैंक का नाम Cheque No. & Name of Bank	₹	पैसे/P.
<u>23 DEC 2020</u>	<u>10,000</u>	
<u>10,000</u>		
कुल/Total	<u>10,000</u>	

Officer/Cashier/SWO

Punjab National Bank Toll free  
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