

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (nternship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of the MoU / linkage	LIST OF activities under each MOU/ Linkage
1	Collaborative research for Ph.D of Sk.Asraf Ali	Dr. Mijanur Rahaman Molla of University of Calcutta	2018-19	Collaborative research	1year	Research
2	Collaborative research for Ph.D of Anirban Bera	Dr. Amit Saha of Jadavpur University	2018-19	Collaborative research	1year	Research
3	Collaborative research for Ph. D of Arup Kumar Adak	Dr. Chittaranjan Sinha of Jadavpur University	2018-19	Collaborative research	1year	Research
4	Collaborative Research for Ph.D of Kiranmoy Chatterjee	Dr. Diganta Mukherjee, Sampling and Official Statistics Unit, Indian Statistical Institute, Kolkata	2018-19	Collaborative research	1year	Research
5	Collaborative Research for Ph.D of Soumyadeep Das	Atanu Biswas and Samarjit Das of Indian Statistical Institute, Kolkata	2018-19	Collaborative research	1year	Research
6	Collaborative Research for Ph.D of Suryasish Chatterjee	Dr. Uttam Bandopadhyay of University of Calcutta	2018-19	Collaborative research	1year	Research
7	Collaborative research for Ph.D of Nibedita Rani Saraf	Dr. Parimal Karmakar of Jadavpur University	2018-19	Collaborative research	1year	Research
8	Collaborative Research for Ph.D of Kiranmoy Chatterjee	Dr. Prajamitra Bhuniya of Imperial College, UK	2019-20	Collaborative research	1year	Research

9	Collaborative Research for Ph.D of Kiranmoy Chatterjee	Dr. Krishna Ray of WBSU	2019-20	Collaborative research	9months	Research
10	Faculty exchange programme of Dr. Tapas Pal	Kanyashree College, Kolkata	2020-21	Faculty Exchange	1year	Faculty exchange
11	Faculty exchange programme of Dr. Tapas Pal	Kanyashree College, Kolkata	2021-22	Faculty Exchange	1year	Faculty exchange
12	Faculty exchange programme of Dr. Tapas Pal	Kanyashree College, Kolkata	2022-23	Faculty Exchange	1year	Faculty exchange
13	Two-Days National Level Workshop on Herbarium methodology and Macrofungal Taxonomy Including Phylogenetic Analysis	CNH, EIACP, Botanical Survey of India, KOLKATA	2022-23	Training	2days	Workshop
14	TRANSLATION WORKSHOP ON DORIS LESSING	CENTRE FOR TRANSLATION OF INDIAN LITERATURES, JADAVPUR UNIVERSITY, AND CENTRE FOR STUDIES IN GENDER, CULTURE, AND MEDIA, WEST BENGAL STATE UNIVERSITY, & DORIS LESSING SOCIETY, SOUTH ASIA	2022-23	Training	2days	Workshop
15	MoU	Barasat Govt. College	2022-23	Academic exchange	5years	Faculty and student exchange

16	MoU	Vital Waste	2022-23	Green campus	Untill terminated by either party	Dry recyclables and hazardous waste from the college premises
17	MoU	Nataji Subhas Open University	2022-23	Academic	Untill terminated by either party	To run PG study centre for theory and laboratory-based activities and to conduct exams as and when required in the College by providing necessary infrastructure.
18	MoU	We for All	2022-23	Academic	Untill terminated by either party	Develop communicating skills in English of the students of Bidhannagar College, organize debate/lectures

On the estimation of population size from a dependent triple-record system

Kiranmoy Chatterjee

Indian Statistical Institute, and Bidhannagar College, Kolkata, India

and Prajamitra Bhuyan

Imperial College London, UK

[Received April 2018. Final revision April 2019]

Summary. Population size estimation based on a capture–recapture experiment under a triple-record system is an interesting problem in various fields including epidemiology and population studies. In many real life scenarios, there is inherent dependence between capture and recapture attempts. We propose a novel model that successfully incorporates the possible dependence and the associated parameters have nice interpretations. We provide estimation methodology for the population size and the associated model parameters based on the maximum likelihood method. The model proposed is applied to analyse real data sets from public health and census coverage evaluation studies. The performance of the estimate proposed is evaluated through extensive simulation study and the results are compared with existing competitors. The results exhibit superiority of the model over the existing competitors both in real data analysis and in a simulation study.

Keywords: Behavioural dependence; Disease surveillance; Maximum likelihood; Time-ordered capture; Trivariate Bernoulli model

1. Introduction

Estimation of population size or the number of vital events that have occurred, during a given time span, is a relevant statistical problem in various scientific disciplines including epidemiology, population studies and life sciences. Federal agencies are generally interested in such estimates for planning and policy formulation. In general, a census or any registration system often fails to capture all the individuals and that leads to undercoverage of the population under consideration. However, in some instances, duplicate records or members outside the target population are included in the census or any other registers because of erroneous enumeration. This issue is known as overcoverage, and it is a common practice to identify and remove the erroneous inclusions through administrative follow-up actions (Chipperfield *et al.*, 2017) or to adjust the census data on the basis of an estimate of the overcoverage rate (Zhang, 2015). In this paper, we focus only on the issues that are related to the commonly encountered problem of undercoverage, assuming that the available data are free from any erroneous inclusion. To reduce the undercoverage error, information from more than one attempt needs to be considered. The data that are obtained from various sources are summarized by matching the lists of captured individuals and analysed to obtain an estimate of the unknown population size (Rastogi and

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E-mail: bhuyan.prajamitra@gmail.com

Effects of nutrient limitation, salinity increase, and associated stressors on mangrove forest cover, structure, and zonation across Indian Sundarbans

**Rajojit Chowdhury, Tapan Sutradhar,
Mst. Momtaj Begam, Chandan
Mukherjee, Kiranmoy Chatterjee,
Sandip Kumar Basak & Krishna Ray**

Hydrobiologia

The International Journal of Aquatic
Sciences

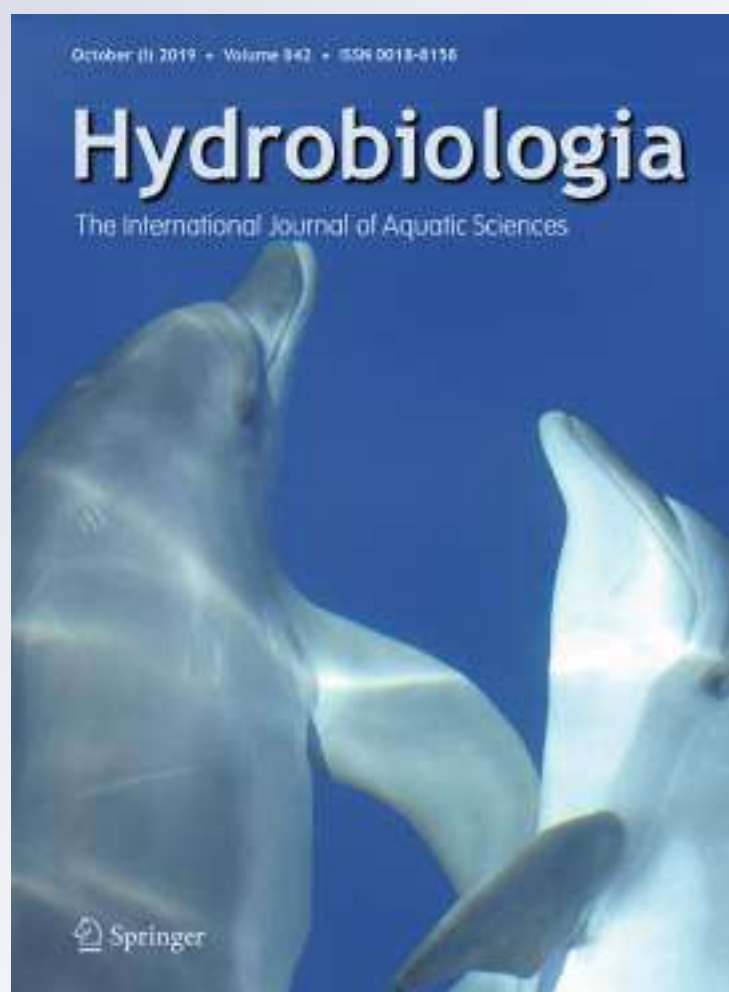
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Government of West Bengal
Higher Education Department,
Appointment Branch
Bikash Bhavan Salt Lake, Kolkata-91

No.994-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professors / Associate Professors in Economics under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with their regular duties at their present place of posting, until further order.

1. Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.
2. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.

The above mentioned teachers shall report for their new assignment at the earliest.

Sd/ S. Banerjee
Assistant Secretary

No.994/1(10)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

1. The Director of Public Instruction, West Bengal.
2. The Additional Director of Public Instruction (Administration), West Bengal.
3. The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Dr. Tapas Kumar Pal as usual, until further order.
4. The Principal/ Officer-in-charge, Maulana Azad College, Kolkata. He is requested to continue to draw and disburse the salary of Smt. Jayeeta Saha as usual, until further order.
5. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
6. ~~Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.~~
7. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.
8. The P.S. to the HMIC of this Department.
9. The Sr. P.A. to the Principal Secretary of this Department.
10. Guard file.


Assistant Secretary

Government of West Bengal
Higher Education Department,
Appointment Branch
Bikash Bhavan Salt Lake, Kolkata-91

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Assistant Secretary

Memo No. UCAC- CS / F-12 / GL / 013 / 2022, Dated 20/10/22



UNIVERSITY OF CALCUTTA
FACULTY COUNCIL FOR POST GRADUATE STUDIES ARTS & COMMERCE,
SOCIAL WELFARE & BUSINESS MANAGEMENT
ASUTOSH BUILDING, CALCUTTA - 700 073

To

Sri Tapas Kumar Pal,

Sir/Madam

This is to inform you that under order of the Vice-Chancellor you have been appointed again purely on ad-hoc basis as **Guest Lecturer** in the Department of **MBM** under the faculty councils for P.G. Studies in Arts, Commerce & Business Studies, University of Calcutta. And honorarium of Rs. 20000/- per annum for delivering not more than 40 (forty) lectures in one year @ Rs. 500/- per lecture will be payable in every three months for one year with effect from **01.04.2023** till **31.03.24** or w.e.f. your date of joining till **31.03.24** or till the vacant post is filled in whichever is earlier. You are requested kindly to report to the Head/In-charge of the Department **MBM** for allotment of your duties if you are agreeable to accept the offer on the above terms and conditions. Date of Birth is required for regularizing the appointment and release of remuneration. The appointment will be subject to the existing rules and/or rules to be framed or adopted by the University from time to time. Please send your joining report to the Secretary, Faculty Councils for P.G. studies in Arts, Commerce & Business Studies through the Head of the Department concerned.

N.B. No person should be allowed to join the University Service in any capacity whether as Teachers, Officers or Employees of any category (whole time, part time, permanent or temporary, unless he submits at the time of joining proof of his/her age to the Accounts Section as Necessary under ordinance).

This has been approved under orders of the Vice-Chancellor, U.C. dated 28.10.2022

Secretary (Actg.)
Faculty Councils for P.G. Studies
in Arts, Commerce & Business Studies
University of Calcutta

N.B. Guest lectures are requested to perform examination duties as and when required. Guest Lecturer As per Syndicate Resolution G.L will not be appointed after 65 years of age

Government of West Bengal
Higher Education Department,
Appointment Branch
Bikash Bhavan Salt Lake, Kolkata-91

No.993-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professors / Associate Professors in Geography under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with their regular duties at their present place of posting, until further order.

1. Dr. Chandan Surabhi Das, Associate Professor of Geography, Barasat Government College.
2. Smt. Shewli Shabnam, Assistant Professor of Geography, Bidhannagar College, Salt Lake, Kolkata.

The above mentioned teachers shall report for their new assignment at the earliest.

Sd/ S. Banerjee
Assistant Secretary

No.993/1(10)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

1. The Director of Public Instruction, West Bengal.
2. The Additional Director of Public Instruction (Administration), West Bengal.
3. The Principal/ Officer-in-charge, Barasat Government College, District – North 24 Parganas. He is requested to continue to draw and disburse the salary of Dr. Chandan Surabhi Das as usual, until further order.
4. The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Smt. Shewli Shabnam as usual, until further order.
5. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
6. Dr. Chandan Surabhi Das, Associate Professor of Geography, Barasat Government College, District – North 24 Parganas.
- ✓ 7. Smt. Shewli Shabnam, Assistant Professor of Geography, Bidhannagar College, Salt Lake, Kolkata.
8. The P.S. to the HMIC of this Department.
9. The Sr. P.A. to the Principal Secretary of this Department.
10. Guard file.


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**Government of West Bengal
Higher Education Department,
Appointment Branch
Bikash Bhavan Salt Lake, Kolkata-91**

No.998-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professor in Mathematics under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with his regular duties at his present place of posting, until further order.

1. Shri Shib Sankar Giri, Assistant Professor of Mathematics, Bidhannagar College, Salt Lake, Kolkata.

The above mentioned teacher shall report for his new assignment at the earliest.

Sd/ S. Banerjee
Assistant Secretary

No.998/1(8)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

1. The Director of Public Instruction, West Bengal.
2. The Additional Director of Public Instruction (Administration), West Bengal.
3. The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Shri Shib Sankar Giri as usual, until further order.
4. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
- ✓ 5. Shri Shib Sankar Giri, Assistant Professor of Mathematics, Bidhannagar College, Salt Lake, Kolkata.
6. The P.S. to the HMIC of this Department.
7. The Sr. P.A. to the Principal Secretary of this Department.
8. Guard file.


Assistant Secretary

Estimation of Population Size with Heterogeneous Catchability and Behavioural Dependence: Applications to Air and Water Borne Disease Surveillance

Kiranmoy Chatterjee* Prajamitra Bhuyan†

*Bidhannagar College Kolkata

†Department of Mathematics, Imperial College London, London

Abstract

Population size estimation based on the capture-recapture experiment is an interesting problem in various fields including epidemiology, criminology, demography, etc. In many real-life scenarios, there exists inherent heterogeneity among the individuals and dependency between capture and recapture attempts. A novel trivariate Bernoulli model is considered to incorporate these features, and the Bayesian estimation of the model parameters is suggested using data augmentation. Simulation results show robustness under model misspecification and the superiority of the performance of the proposed method over existing competitors. The method is applied to analyse real case studies on epidemiological surveillance. The results provide interesting insight on the heterogeneity and dependence involved in the capture-recapture mechanism. The methodology proposed can assist in effective decision-making and policy formulation.

Key words: COVID-19, Gibbs sampling, Hepatitis A, List dependence, Multiple systems estimation.

1 Introduction

The knowledge about the true prevalence of a disease in a specified period is an essential requirement for surveillance and effective policy formulation regarding the healthcare system of a state (Bird and King, 2018). In general, the available data source fails to cover all the relevant events and that leads to an undercount of the target population suffering from the disease. Therefore, disease ascertainment data are accumulated from multiple sources to increase the coverage and for the estimation of the disease prevalence (Papoz et al., 1996). This method is



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On the estimation of population size under dependent dual-record system: an adjusted profile-likelihood approach

Kiranmoy Chatterjee & Diganta Mukherjee

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RESEARCH ARTICLE

An optimal multiarmed response adaptive design for survival outcome with independent censoring

Soumyadeep Das¹ | Rahul Bhattacharya² 

¹ Department of Statistics, Bidhannagar Government College, Kolkata, India

² Department of Statistics, University of Calcutta, Kolkata, India

Correspondence

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Abstract

Compromising ethics and precision in the context of a multiarmed clinical trial, an optimal order adjusted response adaptive design is proposed for survival outcomes subject to independent random censoring. The operating characteristics of the proposed design and the follow-up inference are studied both theoretically as well as empirically and are compared with those of the competitors. Applicability of the developed design is further illustrated through redesigning a real clinical trial with survival responses.



Multi-arm covariate adjusted response adaptive designs for ordinal outcome clinical trials

Statistical Methods in Medical Research
1–12

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DOI: 10.1177/09622802221133558

journals.sagepub.com/home/smmSoumyadeep Das¹ , Rahul Bhattacharya²  and Atanu Biswas³ 

Abstract

Covariate adjusted response adaptive designs are developed with ordinal categorical responses for phase III clinical trial involving multiple treatments. Stochastic ordering principle is used to order the treatments according to effectiveness and consequently allocation functions are developed by combining the cumulative odds ratios suitably. The performance of the proposed designs is investigated through relevant exact as well as large sample measures. To investigate the performance in a real situation, a real clinical trial involving lung cancer patients is further redesigned using the proposed allocation design.

Keywords

Covariate adjusted response adaptive design, ordinal categorical responses, cumulative odds ratio, proportional odds model.

1 Introduction

Clinical trials are carefully conducted research studies to find out the treatments that work best on subjects with a certain disease. Among the several phases of a clinical trial, phase III comprises of the large scale evaluation of treatments and hence is a crucial phase. In phase III of the clinical trial, the patients enter sequentially into the trial and assigned one of the available treatments. Complete randomization (CR) is the widely used allocation design in this regard for its simplicity and statistical performance (e.g. higher power). But from a critic's viewpoint, CR lacks individual ethics as it is blind to treatment performances and hence does not skew the allocation towards the better performing treatments. On the other hand, response adaptive randomization (RAR) uses the available allocation and response information of the patients to update the allocation probabilities so that treatments doing better are used more often.^{1,2} Thus a RAR is more desirable as it compromises collective ethics (identifying a true difference in treatment effectiveness with high statistical power) with individual ethics (maximum number of patients are treated by the superior treatments eventually).

Depending on the nature of the trial, often the responses of the patients are measured in ordinal categorical scale. For example, the response of a rheumatoid arthritis³ patient can be any of the following: nil, mild, moderate, and severe. As another example, the responses in cancer trial may be either of the ordinal categories: death, progressive disease to complete remission. Ordinal responses are also reported in trauma⁴ and sports related knee injury⁵ trials. Another example of ordinal outcomes is the WHO Clinical Progression Scale, which is a 11-point scale (0: not infected to 10: dead) and is advantageous for the use in an emerging infectious disease epidemic. In a very recent article on the final report of the Remdesivir trial with Covid-19 patients,⁶ though the primary outcome is length of recovery time, but the patient response was measured in an ordinal eight point scale. Although these real trials used fixed allocation designs, but development and advantage of RAR in this context can be found in the works of Bandyopadhyay and Biswas,^{7,8} Biswas et al.,⁹ Biswas et al.,^{10–12} and Das et al.,¹³ among others.

Although these developments assumed homogeneity of patients, but in reality, they may differ with respect to covariates like age, sex and health conditions. So, adapting covariate information into the design phase of the trial is desirable to

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Email: rahul_bhatty@yahoo.com



TWO-DAY NATIONAL LEVEL WORKSHOP ON HERBARIUM METHODOLOGY AND MACROFUNGAL TAXONOMY INCLUDING PHYLOGENETIC ANALYSIS

ORGANIZED BY
THE PG DEPARTMENT OF BOTANY
BIDHANNAGAR COLLEGE (BNC)

IN COLLABORATION WITH
CENTRAL NATIONAL HERBARIUM (CNH),
BOTANICAL SURVEY OF INDIA (BSI)
AND
ENVIRONMENTAL INFORMATION, AWARENESS,
CAPACITY BUILDING AND LIVELIHOOD PROGRAMME
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25-26 APRIL
2023



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REGISTRATION IS MANDATORY FOR PARTICIPATION
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Bidhannagar College

Bidhannagar College was established in 1984, with the aim of providing quality education to students. It is a Government Institution directly under the aegis of the Department of Higher Education, Government of West Bengal. The College plays a pivotal role as a premier educational institute for students pursuing higher studies. The Botany Under Graduate Department started in 1997 and subsequently Post Graduate Course was

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About the Herbarium

A herbarium can be defined as a repository of dried plant collections which are poisoned, mounted, stitched, labelled and systematically arranged based on a recognized classification for reference and use in taxonomic research. Herbarium specimens are often used to verify the identity of the specimens collected. In recent times herbarium collections have become an important document to study the effect of climate change and species composition of an area and also helps to plan conservation strategies based on the data on the occurrence of the species in the past. The herbarium also plays an important role as a conservatory of dried plant material, archival record of a region's flora, source of botanical information and diversity. It thus aids in biological research and teaching.

About Macrofungi

Macrofungi refers to all fungi that produce visible fruiting bodies. These fungi are evolutionarily and ecologically very divergent. The Kingdom Fungi - one of the oldest and largest groups of living organisms, is a monophyletic group, thereby meaning that all modern fungi can be traced back to a single ancestral organism. The phylogenetic classification of fungi is designed to group all the fungi on the basis of their ancestral relationships.

How to get in

Bidhannagar College
EB 2, Sector 1, Salt Lake
Kolkata- 700064

- Nearest Railway Station - Bidhannagar Road
- Nearest Metro Station- City Centre
- Nearest Bus Stop- Vidyasagar Island



Location link- <https://goo.gl/maps/yhnBikAJCEwUVZNn8>



Two-Days National Level Workshop on
Herbarium Methodology and Macrofungal Taxonomy Including Phylogenetic Analysis

organised by
PG Department of Botany, Bidhannagar College, Kolkata
in collaboration with
Central National Herbarium
&
Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP)
Programme Centre- Resource Partner on Biodiversity (Flora)
Botanical Survey of India
on
25th & 26th April, 2023 (Tuesday & Wednesday)
at
PG Department of Botany, Bidhannagar College, Kolkata

PROGRAMME SCHEDULE

Day I: 25.04.2023 (Tuesday)	
09.00 – 10.00 hrs	Registration
10.05 – 10.30 hrs	Inaugural Programme
10.35 – 11.00 hrs	High Tea Break
11.05 – 12.00 hrs	Lecture I: Herbarium Methodology By: Dr. K. Karthikeyan
12.05 – 13.00 hrs	Lecture II: Virtual Herbarium By: Dr. Kumar Avinash Bharati
13.05 – 14.00 hrs	Lunch Break
14.05 – 15.00 hrs	Lecture III: Different websites used in Plant Taxonomy By: Dr. Anand Kumar
15.05 – 17.00 hrs	Hands on Training on Herbarium Methodology By: Dr. Anand Kumar, Dr. Shyam Biswa, Ms. Ruma Bhadra, Mr. Sudipta Sarder
Day II : 26.04.2023 (Wednesday)	
10.00 – 11.00 hrs	Lecture I: Diversity, morphotaxonomy and molecular phylogeny of wild mushroom By: Dr. Kanad Das
11.00 – 13.00 hrs	Hands on Training on Macrofungal Identification By: Dr. Manoj Hembrom, Dr. Sudeehna Dutta & Dr. Aniket Ghosh
13.05 – 14.00 hrs	Lunch Break
14.05 – 16.30 hrs	Hands on Training on Phylogenetic analysis By: Dr. Aniket Ghosh
16.30 – 17.00 hrs	Valedictory Session



North 24 Parganas, West Bengal, India

EB-1, cpwd flat, sector-1, Saltlake, EB Block, Sector 1,
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25/04/23 11:12 AM GMT +05:30







Report of Two days National Level Workshop on Herbarium Methodology and Macrofungal Phylogenetic Analysis

Post Graduate Department of Botany had organized 2 days National Level Workshop on Herbarium Methodology and Macrofungal Phylogenetic Analysis in collaboration with Central National Herbarium and EIACP PC RP of Botanical Survey of India on 25th and 26th April, 2023. The 1st day focused on herbarium methodology and the 2nd day was dedicated to Mycology.

On the 1st day a remarkable and valuable speech was delivered by Dr. K. Kartigeyan,, Scientist 'E' , of the Central National Herbarium, Botanical Survey of India, Howrah, in the context of Herbarium Methodology and it was followed by the resourceful deliver by Dr. Kumar Avinash Bharati , Scientist 'D', on Virtual Herbarium and the third lecture was by Dr. Anand Kumar on various websites used in plants which are very user friendly while dealing with plant materials. We gained a vast knowledge on herbarium methodology during our hands on training session by the experts of BSI.

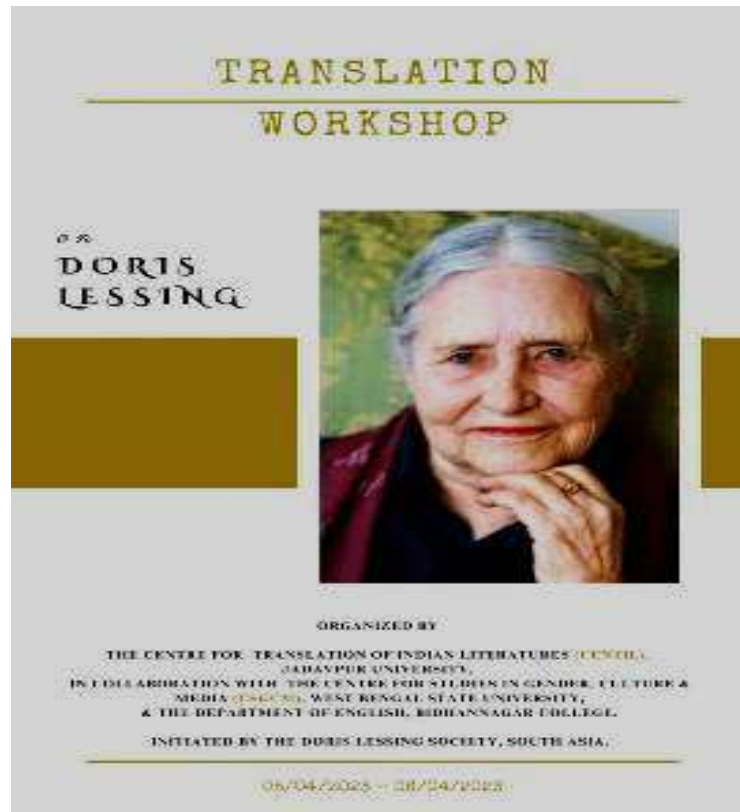
On the 2nd day, lecture was given by Dr. Kanad Das, Scientist 'E', Botanical Survey of India, Central National Herbarium, Howrah on diversity, morphology and molecular- phylogeny of Wild Mushroom which has opened a new dimension on mycology. Hands on training on macro fungi identification and phylogenetic analysis was really impressive and a valuable resource to all of us both for our practical classes and field visit.

On these two days programme, there are 32 participants of which 30 are post graduate students of various colleges such as Bidhannagar College, Bethune College, Barasat College, Srirampur College , Rahara RKMVC College, besides two faculty members of Bethune College.

A WORKSHOP INITIATED BY DLSSA

TRANSLATING LESSING

A COLLABORATION OF 'CENTIL', JU, 'CSGCM' WBSU & BIDHANNAGAR COLLEGE,
KOLKATA, April 5&6 2023



The Plan

At the time of its inception in 2022 Doris Lessing Society, South Asia had decided that it will promote Lessing studies through webinars, reading sessions and through translations into South Asian languages. The first year of the chapter was limited to virtual events as Covid continued in India. However, the plan for a physical event, to mark its presence and reach out more palpably to readers and scholars, was necessary. So when CENTIL agreed to a translation workshop, somewhat hesitantly, DLSSA and CSGCM (of West Bengal State University), that houses it, went full out to actualise the event *Translating Doris Lessing into Bengali*.

The idea was to take up short stories of Lessing, in order to rope in more people in the project, thereby enlarging the readership. It was felt that the project will stand to gain greater access to modern readers, especially young readers. The short stories being academically less plumbed and possibly untranslated were additional encouragement. It was also decided that the project will be both product and process driven, hence it will spread over two days. Day One will be held at CENTIL, Jadavpur University, for the professional translators, selected from the Kolkata academe and with Professor Ahsanuzzaman, from Dhaka; unfortunately he couldn't join us in person. Day Two was planned for young scholars to be held in Bidhannagar College, to ensure the sustainability of the translation activity of Day One by sharing it with students and young scholars.

The Event



The workshop was conducted with more than expected success on April 5&6 2023. Fourteen short stories were chosen from Lessing's wide corpus: one for the young scholars' collaborative translation, and thirteen for the professionals. I am appending a list of the stories at the end for the record and for general interest. The discussion in the end was stimulating. Each translator pointed out their respective challenges and strategies.

The dominant points of the discussion were about Lessing's involved sentences and dense prose which posed a natural challenge. The circular nature of her narrative, that gives an impression of repetition till one recognises the trick of the pattern, often tempted the translators to edit and compress the passages, only to realise that by doing so they would go against the rules of translation. The nuances of the English language, at times untranslatable, and culture specific references were additional woes. The translators pointed out how the polyphonic nature of the texts required them to manoeuvre and employ different linguistic registers to faithfully represent the different voices. Use of pronouns and shifts in tenses between the diegetic and mimetic elements of a story required special attention. The 'you' of English was translated to its three Bengali synonyms based on the discretion of the

translator and matching the suitability of the context. Much discussion followed the question of tenses, and the differences between their application in English and Bengali usage. Some of the translator's were overwhelmed by her style and/or theme and felt somewhat out of their comfort zone of experiences. Then there were certain titles like 'A Story of a Non-Marrying Man' which is about a man who is married many times, but fails to stay in a relationship. It was difficult to capture the title in Bengali without disturbing the essence of the primary text and remained an unsolved problem.



The strategies adopted by the translators involved retaining English words which are natural loans in Bengali, while maintaining a parity of sorts. For instance, if 'drawing room' and 'perfume' were retained untranslated then there was no need to translate 'farm', 'flat', 'airport' or 'weekend', it was decided. The proficient translators offered interesting turns of phrases and compound words that brought out the power and beauty of Lessing's narratives and demonstrated the skill of the translator. It also promised to make the volume an enjoyable read.



Day Two was a big success. Professor Aveek Majumder, the 'Translation Resource Person' on both days was perspicacious with his comments, which added further worth to the workshop. In his plenary speech he outlined the tradition of translation into Bengali and the reasons why Doris Lessing's long and unconventional life and varied nature of her work would be both a delight and ordeal for the translator. The

story chosen was 'Storm' and the fifteen scholars were divided into three groups and the story was further divided within the groups. In a little over an



hour the first draft was ready. Each translator read out their portion of the translated story followed by observations and rectifications.

The workshop was a success not just because it got the participants of the project, *Translating Lessing*, together to discuss the issues of the process. It was a success as it had over thirty people, people who were not familiar with Lessing before this, entrenched in the nitty-gritties of Lessing's works. Though it is going to be a long way to go, with much hard work, to make the product commendable. The happy takeaway is the promising commencement that has put Lessing on the academic map in this region.



Translators and the Stories

(Assigned by CSGCM)

Chaiti Mitra—To Room Nineteen

Saurabh Bhattacharyya—The Temptation of Jack Orkney

Mitali Ganguly—A Woman on a Roof

Tanmaoy Bhattacharya—An Old Woman and her Cat

Monami Mukharjee —The Black Madonna

(Assigned by CENTIL)

Rikdeb Bhattacharya: Debbie and Julie

Payel Basu: How I finally Lost my Heart (11)

Epsita Halder: The Trinket Box 8 pages

Dyuti Mukherjee: Little Tembi

(Assigned by BNC)

Ahmed Ahsanuzzaman -Lucy Grange

Dipankar Sen -The Habit of Loving

Samrat Laskar - The Old Chief Mshlanga

Debapratim Chakraborty - The Story of a Non-Marrying Man

Memo No.UCAC- CS / F-12 / GL/012/2022... Dated: 10/11/22...



UNIVERSITY OF CALCUTTA
FACULTY COUNCIL FOR POST GRADUATE STUDIES ARTS & COMMERCE,
SOCIAL WELFARE & BUSINESS MANAGEMENT
ASUTOSH BUILDING, CALCUTTA - 700 073

To

Sri Tapas Kumar Pal,

Sir/Madam

This is to inform you that under order of the Vice-Chancellor you have been appointed again purely on ad-hoc basis as **Guest Lecturer** in the Department of **MBM** under the faculty councils for P.G. Studies in Arts, Commerce & Business Studies, University of Calcutta. And honorarium of Rs. 20000/- per annum for delivering not more than 40 (forty) lectures in one year @ Rs. 500/- per lecture will be payable at every three months for one year with effect from **01.04.2023** till **31.03.24** or w.e.f. your date of joining till **31.03.24** or till the vacant post is filled in whichever is earlier. You are requested kindly to report to the Head /in charge of the Department **MBM** for allotment of your duties if you are agreeable to accept the offer on the above terms and conditions. Date of Birth is required for regularizing the appointment and release of remuneration. This appointment will be subject to the existing rules and/ or rules to be framed or adopted by the University from time to time. Please send your joining report to the Secretary, Faculty Councils for P.G. studies in Arts, Commerce & Business Studies through the Head of the Department concerned.

N.B. No person should be allowed to join the University Service in any capacity whether as Teachers, Officers or Employees of any category (whole time, part time, permanent or temporary, unless he submits at the time of joining proof of his/her age to the Accounts Section as Necessary under ordinance).

This has been approved under orders of the Vice-Chancellor, U.C. dated.....28.10.2022.....

Secretary (Actg.)
Faculty Councils for P.G. Studies
in Arts, Commerce & Business Studies
University of Calcutta

N.B. Guest lectures are requested to perform examination duties as and when required. Guest Lecturer As per Syndicate Resolution G.L will not be appointed after 65 years of age.



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

65AB 996802

**Memorandum of Understanding for opening
Learner Support Centre / Study Centre for Post-Graduate
Programme(Zoology)of Netaji Subhas Open University**

In terms of Netaji Subhas Open University First Statutes (Revised), 2014 No. 8(4) and No. 24(5) and in tune with the UGC (ODL programmes & Online Programmes) Regulations, 2020, this Memorandum of Understanding (MOU) is being signed between the University and the host Institution where the Learner Support Centre (LSC)/ Study Centre is housed.

In full appreciation of the aims and objectives of the University as well as its operational principles, the undersigned as the Head of

(Name of the Institution) *Bidhannagar College*
affiliated to *West Bengal State University*
Located at the address : *EB-2, Salt lake City; Kolkata - 700064*
West Bengal

puts on record the consent of the authorities of the Institution to house a Learner Support Centre(LSCs)/Study Centre (herein after the Centre) of the Netaji Subhas Open University (herein after the University or NSOU as it is commonly known) under the following terms and conditions:

— 207 25/7/2022
Sl. No.....Date.....Rs. 10/-

Name..... N. S. O. Y.....

Address..... DD-26, Salt-Lake, Sec-I
Stamp Vender Alipure Judge's Court, Kol-27 Val-64
GOPAL DEY

————— Gopal DeY

- i) to make available for the said purpose necessary infrastructure such as two rooms each of size at least 600 sq ft. and provide services for efficient running of the Centre, including receiving of study materials from the University and distribution of the same to individual student;
- ii) To provide the class rooms/ seminar room as per requirements of the teaching-learning processes.
- iii) to comply with the Rules and Regulations, which are already in force and/ or which to be introduced by the University &/or the UGC-Distance Education Bureau (DEB) &/or other statutory body(ies) as may be applicable, in respect of LSCs / Study Centres from time to time;
- iv) to run the Post Graduate LSCs / Study Centres offering Arts, Commerce & Mathematics only out of the share amount received from the University in this regard as per the norms of the University which are in force and which may be promulgated from time to time.
- v) to maintain complete records of:-
 - (a) all expenses including those incurred out of the amount received by the LSC/ Study Centre,
 - (b) student enrolment, renewal and assessment in different subjects,
 - (c) academic and supportive staff working at the LSC/ Study Centre and
 - (d) all programmes of the LSC/ Study Centre;
- vi) to conduct examinations as and when required, in consonance with the schedule announced by the University;
- vii) to send regular reports to Director, Study Centres and/or other concerned officers of the University regarding the activities, needs and progress of the LSC/ Study Centre and to allow visiting teams consisting of University authorities and/ or any person who may be authorized by the University for monitoring purposes.
- viii) All teachers (including SACT-I) of LSCs have to participate in any academic activities as and when instructed by the University.
- ix) To engage coordinator along with other supporting staff following the G.B. (of the College/HEI concerned) resolution under intimation to the Director, Study Centres, NSOU.
- x) It would be the responsibility of all academic counsellors attached to the LSC/ Study Centre to participate in the teaching-learning and evaluation process of NSOU viz., Personal Contact Programme (PCP) and evaluation of answer papers of the Term-End and Assignment Examinations as may be assigned to them from time to time by the concerned authority of the college/ LSC/ Study Centre and/or NSOU.
- xi) LSCs/Study Centres will have to conduct laboratory based activities /field work/dissertation/hands on training (as would be applicable) for the enrolled learners of the University as and when instructed by the University.
- xii) The Principal/Teacher-in-Charge/Officer-in-Charge and Coordinator shall abide by the provisions of the relevant sections of NSOU Statutes /Law/Regulations and other directions which may be relevant for the purpose of the smooth running of the LSCs / Study Centres.

- xiii) LSCs / Study Centres shall create a TAB in the college Website for NSOU to give all information relating to the University. All the notices and schedules relating to Admission, Renewal, Personal Contact Programme, Examinations etc will be uploaded on the relevant link (TAB) of the college website.
- xiv) The Learner Support Centre/ Study Centre will put a notice board and signboard depicting the University name and logo at a distinct place in the college premises in order to make the same visible.
- xv) It shall be the responsibility of the LSC/ Study Centres to submit the Audit Report of the grants received by them by 31st May each year.
- xvi) Programme Offered : Vide Annexure (the programmes offered by the university to the LSC/Study Centre are provided in the annexure herein and shall be treated as the part and parcel of this agreement).
- xvii) The LSCs/study centre will organize Induction Meeting before the commencement of each academic session with newly admitted students. University officials (faculties/officer) may participate in the programme whenever necessary on invitation.
- xviii) The LSCs/ study centre should strictly follow the normal working hours which are as follows::
- Saturday (2pm to 5pm); Sunday (10.30am to 5.30pm)
- xix) The college/Higher Education Institution will not open more than two LSCs of two different Universities including NSOU. And it shall be the duty of the college to inform the NSOU if and when the second LSC is opened and put to function.
- xx) Neither Party will be liable for any failure or delay in performing an obligation under this Agreement that is due to any of the following causes (which events and/or circumstances are hereinafter referred to as "Force Majeure"), to the extent beyond its reasonable control: acts of God, accident, riots, war, terrorist act, epidemic, pandemic, quarantine, civil commotion, breakdown of communication facilities, breakdown of web host, breakdown of internet service provider, natural catastrophes, governmental acts or omissions, alteration, variation and repeal in laws or regulations that are in force, national strikes, fire, explosion, generalized lack of availability of raw materials or energy; provided that the parties stipulate that Force Majeure shall not include the novel coronavirus Covid-19 pandemic which is ongoing as of the date of the execution of this agreement.

For the avoidance of doubt, Force Majeure shall not include:-

- (a) financial distress nor the inability of either party to make a profit or avoid a financial loss,
- (b) changes in the market prices or conditions, or
- (c) a party's financial inability to perform its obligations hereunder.

This Force Majeure Clause applies for parties entering into the instant contract in the midst of the ongoing Covid-19 pandemic, and with restrictions imposed by the appropriate government which want to ensure that current existing circumstances at the time of execution of this agreement and/ or MOU are not considered Force Majeure events.

- xxi) In case of any litigation the High Court of Calcutta, should be the authority.

- xxii) The Clauses on Termination of this instant agreement shall be made on mutually agreed conditions subject to the protection of learners' interest and without causing any prejudice to them who are already enrolled.
- xxiii) This MOU is subject to further revision, if any, when the Regulations of the University comes into force

This MOU comes into effect on the 27th day of December 2022 and this is in continuation of the previous MOU(s)


Signed on behalf of the University

Place: Kolkata

Date: 27.12.2022

(Official Seal)
Director, Study Centres
Netaji Subhas Open University
DD-26, Sector-1, Salt Lake
Kolkata-700 064

Witness: N. Chatterjee
Assistant Director, Study Centres
Netaji Subhas Open University


Signed on behalf of the Study Centre

Place: KOLKATA

Date: 27.12.2022

(Official Seal)
Principal
Bidhannagar College
Salt Lake, Kol-64

Witness: Biswatosh Ghosh
DR. BISWATOSH GHOSH
West Bengal Education Service
Assistant Professor in Zoology
Govt. of West Bengal

Annexure-I

Subjects offered to Bidhannagar College Study Centre under Post Graduate Programme of the University

- Zoology



Principal
Bidhannagar College
Salt Lake, Kol-64



Director, Study Centres
Director, Study Centres
Netaji Subhas Open University
DD-26, Sector-1, Salt Lake
Kolkata-700 064

NOTARIAL CERTIFICATE

(Pursuant to Section 8 of the Notaries Act, 1952)

TO ALL MEN THESE PRESENTS SHALL COME I **SANDIP KUMAR DEY** Advocate & notary, practicing as a NOTARY in the Alipore Judge's court within the District of SOUTH 24 PARGANAS of the Govt. of India within the Union of India do hereby declare that the paper writings collectively marked "A" annexed here to herein after called the "Paper Writings "A" are presented before me by the executant (s)

Bidhannagar College.
Represented by Principal
Mr. Dr. Sourabh Chakraborty
"and others"

hereinafter referred to as the " executant (s)"
on this the *28th* day of *July*
Two Thousand *Twenty Two*

The "executant (s) having admitted the executive of the "Paper Writings "A" in respective hand (s) in the presence of the witness(s) who has such subscribe (s) signature (s) thereon and being satisfied as to the identity of the executant (s) and the side executant (s) and the said execution of the Paper Writing "A" and testify that the side execution is in the respective hand of the executant (s).

IN WITNESS WHEREOF Being requested of a Notary, I have granted and signed this **NOTARIAL CERTIFICATE** to serve and avail as evidence in any legal proceeding shall or any require.

IN FAITH AND TESTIMONY WHEREOF I, **SANDIP KUMAR DEY** the said Notary, have hereinto set an subscribed my Alipore Judges' Court Compound Kolkata-27 in the District of South 24-Parganas on this the *28th*

day of *July* 2022

SANDIP KUMAR DEY
Notary
Govt. of India
S. N. 2105 of 2002
Alipore Judges' Court
Dist. South 24-Parganas

NOTARY STAMP



28/7/2022

26/28/7/22

भारतीय गैर न्यायिक

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रुपये

TEN
RUPEES

रु.10

Rs.10



INDIA NON JUDICIAL

পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

73AB 680176



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Memorandum of Understanding

This Memorandum of Understanding (hereinafter called as "MOU") is made and executed at 28th day of July 2022 by and between;

Bidhannagar College, acting through its Authorized Signatory **Mr. Dr Saurabh Chakraborti** (hereinafter referred to as '**The Company**', which expression unless repugnant to the context or subject shall mean and include its successors, representatives, assigns, administrators and executors) of the party of **FIRST PART**.

AND

M/s. Redivivus Recyclers Private Limited, a company incorporated under the provisions of Companies Act, 1956 having its registered office at **11, Allenby Road, Kolkata 700020** acting through its Authorized Signatory **Mr. Pranav Goel** duly Authorized by the board (hereinafter referred to as '**Vital Waste**', which expression unless repugnant to the context or subject shall mean and include its successors, representatives, assigns, administrators and executors) of the party of **SECOND PART**.

[Handwritten signature]
Pranav Goel

28/7/2022
28 JUL 2022

[Handwritten signature]
1

20 JUN 2022

SL. No. 1976 Date

Name B. C. LAHIRI, Advocate
Alipore Judge Court
Kolkata-700 027

Address

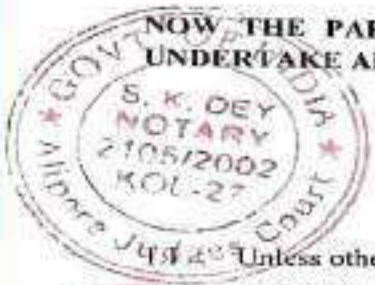
Vendor Sig.  

TAPAN KUMAR DAS
Alipore Police Court
KOLKATA-700027

expressions "The Company" and "Vital Waste" are hereinafter collectively referred to the 'Parties' and individually as the 'Party'.

WHEREAS

- A. 'The Company' is an undergraduate college affiliated with the West Bengal State University in Barasat, North 24 Parganas, West Bengal.
- B. Vital Waste is engaged in providing Recycling and Waste Management services for dry recyclables such as Paper, Cardboard, Plastic, Metal and E-waste in India.
- C. Vital Waste approached The Company to provide recycling and allied waste management services for its premises in Kolkata and The Company agreed to appoint Vital Waste for providing the aforementioned services on the following terms and conditions as set herein.



NOW THE PARTIES MENTIONED HEREIN HAVE WITNESSED AND HEREBY DECLARE, UNDERTAKE AND AGREE AS UNDER:

ARTICLE-1
DEFINITIONS

Unless otherwise clearly required by the context, the following terms shall have the respective meanings as defined below:



(a) "Collection Staff" shall mean employees/staff of Vital Waste responsible for packaging and collection of Recyclables.



(b) "Main Storage Location" shall mean storage location where all the Dry Recyclables will be stored for collection and this location should be accessible to collection vehicle of Vital Waste.

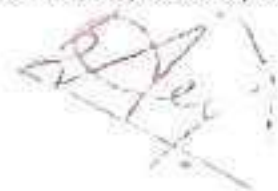
(c) "Recyclables" means any type of dry waste (Non Hazardous) which is not contaminated and can be reused or recycled into a new product.

(d) "Recycle Points" means points awarded by Vital Waste for per kg of Recyclables. 1 Recycle Point = 1.00 INR.

Beonar Ghosh

20 JUL 2022

(c) "Collection Site" shall be at Bidhannagar College, EB-2, Sector 1, Salt Lake, Kolkata, West Bengal
700064



ARTICLE-2
APPOINTMENT OF VITAL WASTE

- 2.1 **The Company** hereby has appointed Vital Waste to provide the recycling and allied waste management services for its **Collection Site**.
- 2.2 **Vital Waste** will collect the dry recyclables from the premises of **The Company** as per the terms and conditions mentioned in this MOU.
- 2.3 **Whoever** shall provide waste, will get E-certificate for recycling the waste.



ARTICLE-3
RECYCLING PROGRAMME

- 3.1 **The Company** will collect the entire waste in main storage location within the premises.
- 3.2 After collection of minimum quantity of 500 kg waste, the representative of **The Company** shall provide an intimation to **Vital Waste** to collect waste and to initiate the recycling Program.
- 3.3 **Vital Waste** will carry out collection activity.
- 3.5 Collection Staff of **Vital Waste** will collect the Recyclables from the premises of **The Company** after getting the collection requirement from the office of **The Company** on next day or within 3 working days from the receipt of collection request from the office of **The Company**.
- 3.6 Collections are to be performed on working days i.e. Monday to Saturday of every week between 10.00 am to 7.00 pm except public holidays.
- 3.7 In case the office of **The Company** is located in high rise building, the housekeeping staff of **The Company** will bring the Recyclables to such location which is accessible to Collection Staff of **Vital Waste** or assist the Collection Staff of **Vital Waste** for collections of Recyclables.
- 3.8 Collection Staff of **Vital Waste** will be equipped with the weighing machines to perform the measurement of Recyclables in the presence of the representative of **The Company**.
- 3.9 Collection summary will be emailed to **The Company** upon collection.
- 3.10 If the average collection quantity in five (5) consecutive collection cycle is less than fifty (50kg) then **Vital Waste** has all the rights to discontinue the Recycling Program.



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Biswan Ghosh

28 JUL 2022

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ARTICLE-4

EARNING & RECYCLE POINTS

- 4.1 All Recyclables so collected under the Recycling Program from **The Company** shall be divided into various Categories in accordance with the 'Exchange Point Card' as is provided in ANNEXURE 2.
- 4.2 **Vital Waste** shall determine category-wise quantity of Recyclables collected from **The Company**. Such figures of the quantity of each category of Recyclables so collected from **The Company** shall be represented in the collection summary.

ARTICLE-5

REDEMPTION

- 5.1 Rates quoted in Exchange Point Card (Annexure 2) are appropriate to the particular recyclable product at the time of quoting.
- 5.2 *All payments of recycle and hazardous waste will be netted at the time of collection.*
- 5.3 *All netted points, in case positive, will be paid in the same financial year (April to March) and in case negative, it shall be carried forward to the next financial year.*

ARTICLE-6

MISCELLANEOUS

- 6.1 This MOU, its existence and all information exchanged between the Parties under this MOU shall not be disclosed to any Person by any Party. Each Party shall hold in strictest confidence, shall not use or disclose to any third party, and shall take all necessary precautions to secure any Confidential Information of the other Party. Disclosure of such information shall be restricted solely to employees, agents, consultants and representatives who have been advised of their obligation with respect to Confidential Information. The obligations of confidentiality do not extend to information which:

- (a) is disclosed to employees, legal advisers, auditors and other consultants of a Party provided such persons have entered into confidentiality obligations similar to those set forth herein; or
- (b) is disclosed with the consent of the Party who supplied the information; or
- (c) is, at the date this MOU is entered into, lawfully in the possession of the recipient of the information through sources other than the Party who supplied the information; or
- (d) is required to be disclosed pursuant to applicable law or is appropriate in connection with any necessary or desirable intimation to the Government of India; or
- (e) is generally and publicly available, other than as a result of breach of confidentiality by the Person receiving the information.

Pranav Guet

28 JUL 2022

The Parties acknowledge and agree that this MOU is effective as of date of execution of this MOU and shall be valid from the effective Date until terminated by any of the party by giving 30 days written notice to other party.

6.3 Any notice required or permitted to be given hereunder shall be in writing and shall be effectively served (i) if delivered personally, upon receipt by the other Party; (ii) if sent by prepaid courier service, airmail or registered mail, within five (5) days of being sent; or (iii) if sent by facsimile or other similar means of electronic communication (with confirmed receipt), upon receipt of transmission notice by the sender. Any notice required or permitted to be given hereunder shall be addressed to the address as given in the title to this Agreement.

6.4 The parties hereto agree that, in the event that either of them suffers any harm of any description whatsoever, including losses, costs, damages, advocates or other consultant's fees and expenses or other expenses of any nature whatsoever, resulting from any inaccuracy in any of the respective representations and warranties of the either party, as set forth in this MOU, the party hereto whose representation and warranty is false or inaccurate shall immediately and fully, protect, hold harmless, and indemnify the other party hereto. The indemnification contained in this Article shall not in any way relieve either party hereto from any indemnification provided to any of the other party hereto pursuant to any other agreement between such parties.

6.5 This MOU shall be governed and interpreted by, and construed in accordance with the laws of India. Courts at Kolkata shall have jurisdiction to decide all matters arising out of this agreement and/or directly / impliedly concerning this MOU.

6.6 That at all times during the currency of this MOU as the case may be, the Parties shall use their best efforts to resolve by mutual agreement any dispute or difference arising between the Parties as to their respective rights, duties and obligations there under or as to any matter arising out of or in connection with the subject matter of this MOU or as to the meaning or construction of thereof ("Dispute"). If the Parties are unable to resolve any Dispute by negotiation within 30 days, either Party may propose to the other in writing that the Dispute should be referred to a sole arbitrator appointed by mutual consent of both the Parties for adjudication of such dispute. If the Parties are unable to agree on a sole arbitrator within fifteen (15) days of the proposal in writing by any Party to refer the Dispute for adjudication by arbitration, each Party shall name and appoint one arbitrator of its choice within thirty (30) days thereafter. The two arbitrators so appointed shall by mutual consent appoint a third arbitrator within fifteen (15) days thereafter, who shall act as the presiding arbitrator. The arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The language of arbitration shall be English and the venue of arbitration shall be Kolkata. The decision of the arbitrator / arbitral tribunal shall be final and binding on the Parties.


Beonar Ghosh

28 JUL 2022

Nothing contained in this clause shall prevent the Parties from approaching a court of competent jurisdiction to obtain an interim injunctive relief, irrespective of whether the subject matter of dispute is under negotiation or pending arbitration.

8 Nothing contained in this MOU shall constitute or be deemed to constitute a partnership between the Parties, and no Party shall hold himself out as an agent for the other Party, except with the express prior written consent of the other Party.

6.9 This MOU may be executed in two counterparts, both of which taken together shall constitute one and the same agreement, and either Party may enter into this MOU by executing a counterpart.

6.10 No waiver of any breach of any provision of this MOU shall constitute a waiver of any prior, concurrent or subsequent breach of the same of any other provisions hereof, and no waiver shall be effective unless made in writing and signed by an authorized representative of the waiving Party.

6.11 If any provision of this MOU is invalid, unenforceable or prohibited by law, this MOU shall be considered divisible as to such provision and such provision shall be inoperative and shall not be part of the consideration moving from any Party hereto to the others, and the remainder of this MOU shall be valid, binding and of like effect as though such provision was not included herein.

IN WITNESS WHEREOF the Parties hereto have executed this MOU on the day and year first herein above written.



Signed and delivered for and on behalf of:
Bidhannagar College

[Signature]
28-07-22

Name: Saurabh Chakraborti
Title: Principal
Principal
Bidhannagar College, Salt Lake

Signed and delivered for and on behalf of:

M/s Redivivus Recyclers Private Limited



Pranav Goel REDIVIVUS RECYCLERS PVT. LTD.

Name: Pranav Goel
Title: Director
28-7-22

Director

IDENTIFIED BY ME
[Signature]
Advocate

[Signature]
28/7/2023

28 JUL 2022

**ANNEXURE -2
EXCHANGE POINT CARD**

QUOTATION		
LOCATION	PARTICULARS	RECYCLE POINT/KG
KOLKATA	1. PAPER	7
	2. LOW GRADED PAPER	1
	3. PLASTIC - PET	2
	4. PLASTIC - HDPE & Others	3
	5. METAL	4
	6. COPPER	88
	7. TUBE LIGHT AND MISLENIOUS ITEM	(-15)
	8. HAZARDOUS WASTE	(-75)
	9. MIXED IT SCRAP LOT	28
	10. MIXED ELECTRICALS	42
	11. UPS BATTERY	75
	12. INDUSTRIAL BATTERY	85
	13. COPPER CABLES	185
	14. ALUMINIUM CABLES	58
	15. AIR CONDITIONERS	55
	16. CABLES	12
	17. MOTORS(AC/DC)	68
	18. MISCELLANEOUS CONSUMER ITEMS	12



Biswas Braut

[Handwritten signature]



[Large handwritten signature]

28 JUL 2022

<COMPANY LETTER HEAD>

To

Whomsoever Concerned

DT:

SUB: Dry Recyclables for recycling.

Please allow the recyclables from M/s <COMPANY_NAME> to be sent to M/s Redivivus Recyclers Private Ltd.54/7B, D.C Dey Road, Kolkata – 700015 for the purpose of recycling.

Total Weight: _____

Value (Inclusive of Taxes): Rs. _____



Regards

(SIGN & STAMP)

<COMPANY_NAME>



Beanan Crank
[Handwritten signature]

[Handwritten signature]

28 JUL 2022



28 JUL 2022



28 JUL 2022

THE 28th DAY OF July 2022

PAPER WRITING 'A'
&
**THE RELATIVE NOTARIAL
CERTIFICATE**

SANDIP KUMAR DEY

ADVOCATE & NOTARY
Govt. of India
Regn. No. 2105/2002
Alipore Judges' Court
Dist. South 24-Paragans
Kolkata - 700 027

Professional Address
128/17B, Hazra Road
2nd Floor
Kolkata - 700 026

भारतीय गैर न्यायिक

दस
रुपये
रु.10



TEN
RUPEES
Rs.10

INDIA NON JUDICIAL

पश्चिम बंगाल WEST BENGAL

79AB 407762



Memorandum of Understanding between

Barasat Government College, Barasat, Kolkata-700124,

Govt. of West Bengal

and

Bidhannagar College, EB-2, Sector 1, Salt Lake, Kolkata- 700064,

Govt. of West Bengal

Shankar
Dr. Ramar Chattopadhyay
West Bengal Senior Education Service
Principal, Barasat Govt. College,
Government of West Bengal

The Memorandum of Understanding (hereinafter called the MoU) is entered into on this the 19th Day of May (Two Thousand Twenty three (2023))

By and Between

BARASAT GOVERNMENT COLLEGE, BARASAT, The First Party represented herein by its Principal as Representative and Competent Authority (hereinafter referred as "First Party", the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors –in office, administrators and assigns).

Shankar
Principal
Bidhannagar College
Salt Lake, Kolkata
19.05.2023



ক্রমিক নং ০২৬৭
সন ২০২৩
তারিখ ২০-০৫-২০২৩
ক্রেতার নাম শ্রী শ্রী সিমেন্ট প্রাইভেট লিমিটেড
সকিন ০১০০০০
স্ট্যাম্প মূল্য ২০/
স্ট্যাম্প ক্রেতার [Signature]
হাবড়া, এ, ডি, এস, আর, সাকিন
জেলা উত্তর ২৪ পরগণা
টি, ডি, নং _____
ক্রয়ের তার _____
মোট মূল্য _____
ক্রেতারী অফিস বারাসাত, উত্তর ২৪ পরগণা
বঙ্গবন্ধু জেলা প্রশাসন

10 MAY 2023
225000



উত্তর ২৪ পরগণা জেলা প্রশাসন
বারাসাত
ক্রেতারী অফিস
০১০০০০

BIDHANNAGAR COLLEGE, KOLKATA, The Second Party, and represented herein by the Principal, as Representative and Competent Authority, (hereinafter represented as "Second Party", the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in office, administrators and assigns)

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party') WHEREAS

A) **THE FIRST PARTY is a Government Higher Educational Institution Named:**

i) **BARASAT GOVERNMENT COLLEGE, 10, K.N.C Road, BARASAT, North 24 Parganas, Pin-700124.**

B) The First Party and Second Party believe that collaboration and cooperation between themselves will promote more effective use of each other's resources, and provide each of them with enhanced opportunities.

C) The parties intend to cooperate and focus their efforts in cooperation within the area of Higher Education, Research and Development, provide opportunity for global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions.

D) Both Parties being legal entities in themselves desire to sign this MoU for advancing their mutual interests.

E) **BIDHANNAGAR COLLEGE, EB-2, Sector 1, Salt Lake, Kolkata – 700064, the Second Party** is a Government Higher educational Institute of West Bengal under the aegis of the Department Higher Education, Government of West Bengal and is engaged in imparting higher education by running undergraduate Honours programs and postgraduate programs in various science and arts streams at present with rights, possibility and extension thereafter.

E) The Second Party presently functions from its own campus at Sector 1, Salt Lake, Kolkata, West Bengal and will continue to do so until further order from the Department of Higher Education, Government of West Bengal. It has no other branch, wing subsidiaries or extensions existing at present.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISE SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:

Clause-I

COOPERATION

1.1 Both the Parties are united by common interest and objectives, and they shall establish



Dr. Samar Chatterjee
West Bengal State Education Service
Principal, Barasat Govt College,
Government of West Bengal

19/05/23

Principal
Bidhannagar College,
Salt Lake, Kolkata



channels of communication and cooperation that will promote and advance, to the best efforts and as far as practicable

- a) Joint research projects/publications to be pursued.
- b) Science and Humanities departments to exchange students for the internship programmes included under NEP. Faculty/Research guides to be shared for the 4th year research project paper for all common departments, as and when necessary.
- c) Faculty and student exchange based on reciprocity; eg. collaborative NSS programmes; collaborative gender sensitisation programmes to be organised.
- d) Team taught courses (including online courses). For example 2nd Party to offer the 1st Party (BGC) the ongoing Communicative English course of the 2nd Party (BNC).
- e) Joint organisation of short-term continuing educational programmes on topics of mutual interest and to invite each other's faculties to participate therein.
- f) Collaborative seminars/workshops/conferences/academic enrichment programmes on topics of mutual interest and to invite each other's faculty and students to participate therein.
- g) Faculties of Parties 1&2 to be involved in Classes at each other's institutions for specific modules and in departments where the need has been ascertained by the institutional heads. These classes will be conducted in the Compact Module system where continuous classes will be scheduled in an arrangement for one or two weeks as per the requirements of the syllabus and the students.
- h) The list provided above is not exhaustive and that other items or elements, not specifically mentioned, may also be included.

1.2 Both the Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.3 The First Party and Second Party must respect each other's intellectual property and in case of disputes, if any, relating to any aspects of academic cooperation, The Heads of both Colleges will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

1.4 Both the Parties mutually agree not to include any financial transaction during the execution of this MoU.

1.5 Neither Party shall be held responsible for non-fulfillment of their respective obligation under this MoU due to circumstances beyond their control but not limited to pandemic, war, flood etc. If such a condition continues beyond six months, the parties shall then mutually decide about the future course of action.



Dr. Saruar Chatteropadhyay,
West Bengal Sector Education Service
Principal, Bidhanagar College,
Government of West Bengal

S. Chatteropadhyay
19/05/23

Principals
19.05.2023

Bidhanagar Coll.,
Salt Lake, KOL-64



1.6 Nothing in this MoU shall be construed to make either party a partner, an agent or a legal representative of the other for any purpose. Now onwards both the parties may mention the name and LOGO of the other in their documents as "COLLABORATOR" for purpose as may be required, subject to communication by the user to the other party in writing beforehand.

1.7 This MoU unless terminated by mutual written agreement will continue for 5 years after the effective date specified in the opening paragraph and can be renewed through mutual interest. Either Party shall have the right to unilaterally terminate this MoU upon a ninety days prior written notice to the other party.

1.8 The scope of this MoU is not restricted or limited to the list of items specifically mentioned above. Further areas of collaboration can be expanded in the future according to needs as they arise, as the above list is not exhaustive.



Agreed:

For

For

Abhijit De 19/05/2023
Barasat Government College,

10, K.N.C. Road, Barasat,

North 24 Parganas, Pin-700124
Associate Professor in Physics
Coordinator, IQAC
Barasat Govt. College
Government of West Bengal

Bidhannagar College,

EB-2, Sector 1, Salt Lake

Kolkata-700064

Anareesh Mandal
19.05.2023

Coordinator
IQAC
Bidhannagar College
Kolkata-700064



Authorized Signatory

A. Chatterjee

Barasat Government College,

10, K.N.C. Road, Barasat

North 24 Parganas, Pin-700124

Ph: 9733788309

E-mail: principal@bgc.ac.in

Website: www.bgc.ac.in

Samar Chattopadhyay
West Bengal Senior Education Service
PRINCIPAL, Barasat Govt. College,
Government of West Bengal

Authorized Signatory

Bidhannagar College,

EB-2, Sector 1, Salt Lake,

Kolkata-700064

Ph: (033)23374761

E-mail:

info.bidhannagarcollege@gmail.com

Website: www.bidhannagarcollege.org

Dr. Saurabh Chakraborty
19.05.2023

Dr. Saurabh Chakraborty

Principal

Bidhannagar College

Kolkata-64

Ph: 9733788309

E-mail: principal@bidhannagarcollege.org

Witness-1

Witness-2

Sudhendu Kumar Dasgupta

HEAD 19.05.2023

DEPTT. OF HISTORY, W.B.E.S
BARASAT GOVT. COLLEGE

Associate Professor
Dept. of History
Barasat Govt. College
Barasat, N-24 Parganas

Dr. K. S. Ghosh

West Bengal Educational Service
Associate Professor
Govt. of West Bengal

19.05.2023

Fluorescence sensing and intracellular imaging of Pd²⁺ ions by a novel coumarinyl-rhodamine Schiff base†

Arup Kumar Adak,^{a,b} Rakesh Purkait,^b Saikat Kumar Manna,^c Bankim Chandra Ghosh,^d Sudipta Pathak^e and Chittaranjan Sinha^{a,b*}

Coumarinyl-rhodamine, **HCR**, served as an extremely selective sensor for Pd²⁺ ions in ethanol/H₂O (8:2, v/v, HEPES buffer, pH 7.2) solution and the limit of detection (LOD) was 18.8 nM (3 σ method). The free sensor, **HCR**, was weakly emissive and in the presence of Pd²⁺, the colour changed from straw to pink with very strong emission at 598 nm in the presence of eighteen other cations. A plausible mechanism involved opening of the spirolactam ring of rhodamine on interaction with Pd²⁺, which was justified by structure optimization and transition energy calculations using the DFT technique. **HCR** underwent 1:1 complexation with Pd²⁺, which was confirmed via the Job's plot, mass spectra and Benesi–Hildebrand plot (association constant K_a , $9.1 \times 10^4 \text{ M}^{-1}$). A separate *in vitro* experiment showed that **HCR** could specifically sense Pd²⁺ in MCF7 (human breast adenocarcinoma) cell lines

Check for updates

New J. Chem., 2019,
43, 3899

Received 26th December 2018,
Accepted 26th January 2019

DOI: 10.1039/C8NJ06511J

rnc899

1 Introduction

In the last few years, the development of methods for the identification and sensing of platinum group metals (PGMs) has received considerable interest because of their enormous biological, environmental, industrial and chemical significance.^{1–4} Among these, palladium, a precious metal, has become one of the most attractive sensing targets in recent years because of its wide catalytic use in the synthesis of organic and pharmaceutical molecules, fuel cells, dental appliances, medical devices, electrical equipments, etc.^{5,6} In the Pd-catalysed reactions, either the Pd(0) may be temporarily oxidized or Pd(IV) may be reduced to Pd(II) during the reactions. The final product is often contaminated with a Pd(II) impurity even after rigorous purification. Such contamination at an ultratrace level in industrial products may cause serious health problems. Due to its thiophilic nature, palladium can bind with DNA, proteins and other macromolecules and disturb a variety of cellular processes.^{7,8} Moreover, palladium also hinders the activity of many enzymatic reactions such as those

of alkaline phosphatase, creatine kinase and prolyl hydroxylase (hypoxia-inducible factor).^{9,10} Therefore, various analytical techniques are used for the quantitative analysis of palladium. Popular techniques include inductively coupled plasma-mass spectrometry (ICP-MS), atomic absorption spectrometry (AAS), solid-phase micro-extraction high performance liquid chromatography (SPME-HPLC) and X-ray fluorescence spectroscopy.^{11–13} However, these methods require sophisticated highly expensive equipments, extensive sample preparation steps, and time-consuming and high salaried experts. Among these different techniques used for the analysis of palladium ions, colorimetric and fluorometric techniques are more convenient and dependable for the rapid and sensitive detection of palladium both qualitatively and quantitatively because of their simplicity, selectivity and sensitivity. Hence, the development of palladium-selective fluorescent probes is extremely essential. Pd²⁺, being a heavy transition metal ion with open shell electronic configuration, is a typical fluorescence quencher.¹⁴ Based on the ON–OFF¹⁵ or OFF–ON^{16,17} mechanism, some fluorescent chemosensors and chemodosimeters are synthesized for identifying palladium species. For the design of a sensor, the important objectives are long-wavelength emission and ecofriendly availability of fluorescent chemosensors. Thus, rhodamine-functionalized chemosensors are receiving considerable interest in current years.¹⁸ For the last couple of years, we have considered a strategy to design rhodamine derivatives for the identification of trace levels of Pd; allyl ether Schiff base of rhodamine¹⁹ was tested for the detection of total Pd at 50 nM, while allyl ether hydrazone rhodamine could detect as low as 95 nM concentration²⁰ at pH 7.2. The performance of rhodamine derivatives inspired us to synthesize newer

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^bDepartment of Chemistry, Jadavpur University, Kolkata-700032, West Bengal, India. E-mail: crjachen@gmail.com

^cDepartment of Chemistry, Haldia Govt. College, Debhog, Haldia, P.O. Haldia-721657, West Bengal, India

^dDepartment of Chemistry, Durgapur Govt. College, J. N. Avenue, Durgapur, P.O. Haldia-713214, West Bengal, India

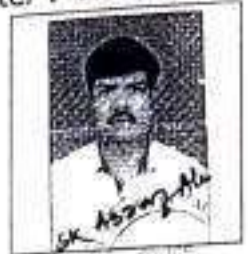
^eEconomic supplementary information (ESI) available. See DOI: 10.1039/C8NJ06511J



University of Calcutta
Senate House, Kolkata - 700073

Date of Enrollment : 5th June 2018
 Registration Number : 04630/Ph.D.(Sc.)Proceed/2019
 Date of Registration : 4th July 2019
 (Please quote the above Number and Date in all future Correspondence)

Date of Letter : 5th July 2019



From:
 Deputy Registrar
 University of Calcutta

To:
 Sri Sk Asraf Ali
 Vill- Machinan, P.O.- Gopalnagar,
 P.S.- Kolaghat, Dist.- Purba Medinipur,
 Pin-721130.

Dear Sir,

I am desired to inform you that you have been granted registration for the Ph.D. programme under this University in **Chemistry (Organic)** in terms of 6.6 of the Regulations for the Degree of Doctor of Philosophy (Ph.D.), C.U., framed under UGC Guidelines, 2016.

This registration shall remain valid for next six years with effect from the date of enrolment as indicated above.

You are to comply with the usual rules of migration in case you have passed the qualifying examinations for the Ph.D. programme from a University/Institute other than the University of Calcutta.

Title of Thesis

"Synthetic Studies Towards Isoindolinones And Pyrrole Fused Heterocycles."

Name of the Supervisor : Dr. Mijanur Rahaman Molla
 Name of the Joint Supervisor : Dr. Shubhankar Samanta ✓
 Name of the Associate Supervisor : X

Self Attested
 SK Asraf Ali

Yours faithfully,

 05/07/19
 Deputy Registrar

N.B. Please see the instructions overleaf.

ATTESTED

 28/7/19
 Assistant Professor
 West Bengal Education
 Gopalnagar (P.O.)
 West Bengal

Dr. Amit Saha

Assistant Professor
Organic Chemistry Section
Department of Chemistry
Jadavpur University
Telephones: 033-24572981, 91-9433950204
Email: amit.saha@jadavpuruniversity.in


Dr. Shubhankar Samanta

Assistant Professor
Department of Chemistry
Bidhannagar College
Telephone: 91-9775550193
Fax: (9133) 2337 4782
Email: chemshubha@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that the thesis entitled "*Environmentally benign synthetic routes to fused heterocycles and their photophysical studies*", submitted by **Mr. Anirban Bera** who got his name registered on 12-10-2018 (**Index No.- 235/18/Chem./26**) for the award of Ph.D. (Science) degree, Jadavpur University, is absolutely based upon his own research work under our supervision and that neither this thesis nor any part of it has been submitted for either any degree or diploma or other academic award anywhere else before.

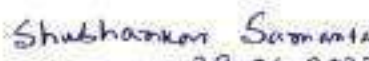
Research Supervisor (s)


28.06.2023

Dr. Amit Saha

Supervisor
Dr. Amit Saha
Assistant Professor
Department of Chemistry
Jadavpur University
Kolkata-700032, India




28.06.2023

Dr. Shubhankar Samanta

Joint-Supervisor
Dr. Shubhankar Samanta
Assistant Professor (WBES)
Department of Chemistry
Bidhannagar College
Salt Lake, Kol-64

A new integrated likelihood for estimating population size in dependent dual-record system

Shantanu D. MURTHI¹ and Dajana MURHEJEE²

¹Department of Statistics, McGill University, 1205 Avenue Docteur Penicase,
 Montreal, Quebec H3T 3J5, Canada; ²Department of Statistics, University of
 Regina, Regina, Saskatchewan, S4S 0A2, Canada

Key words and phrases: Capture-recapture, direction of external dependence, finite population, nuisance parameter, time-dependent response, capture model.

MSC 2010: Primary 62D10; Secondary 62P10, 62P01

Abstract. Estimation of the population size from dependent dual-record system (DRS) remains a statistical challenge in the capture-recapture experiment. Owing to the non-identifiability of the double true behavioural response, a capture model (denoted by (C, C) under DRS) has been developed in the Bayesian paradigm based on alternative priors. Our contribution in this article is to develop a new integrated likelihood function (denoted by (C, C)) motivated by a novel approach developed by Sen et al. (2007). A suitable weight is given to the nuisance parameter is derived with the knowledge of the direction of internal dependence. Several likelihood functions are constructed so that the resulting estimator possesses desirable properties including negligible bias even with sparse data. Extensive simulations show the superior performance of the proposed method in the dependent Bayesian paradigm. Moreover, the proposed estimation is also implemented in the computer program *BayesDRS*. Applications to real data sets are presented. *The Canadian Journal of Statistics* 36: 577-592, 2008. © 2008 Statistical Society of Canada.

Résumé. L'estimation efficace de la taille d'une population à partir d'un système à deux enregistrements double (SD) de population dérive d'un défi statistique de taille, vu les expériences de capture-recapture. Bien que les méthodes ont été développées dans le cadre bayésien, les développements antérieurs sont basés sur des priorités alternatives sur la base de la non-identifiabilité du modèle, pour les variations temporelles de comportement d'individu. Les auteurs développent une nouvelle fonction de vraisemblance intégrée à partir du modèle (C, C) motivée par une approche novatrice proposée par Sen et al. (2007). Ils dérivent une fonction de pondération appropriée pour les paramètres de nuisance. Une analyse de la direction de la dépendance interne de la dépendance est construite afin de sélectionner une vraisemblance concernant l'estimateur, avec des propriétés désirables, notamment une structure négligeable à la fois à priori et à posteriori. De plus, l'estimation proposée est facile à implémenter à un point de vue numérique. Les auteurs présentent une vaste étude de simulation démontrant les performances supérieures offertes par la méthode proposée par rapport aux méthodes bayésiennes alternatives. Ils ont également implémenté l'application à deux jeux de données réelles. *The Canadian Journal of Statistics* 36: 577-592, 2008. © 2008 Société statistique du Canada.

1. INTRODUCTION

The dual-record system (DRS) is a special type of capture-recapture experiment, which is particularly designed for estimating the size of a selected population, say N , based on two

Additional SDRS program files can be found at the online version of this article at the publisher's website: <http://www.interscience.wiley.com/jpages/0008-3113/online>.
 Correspondence: Shantanu D. Murthi, Department of Statistics,
 University of Regina, Regina, Saskatchewan, S4S 0A2, Canada.

OLS: Is That So Useless for Regression with Categorical Data?

Atanu Biswas, Samarjit Das and Soumyadeep Das

Abstract Binary/categorical response data abound in many application areas poses a unique problem; OLS-based model may lead to negative estimate for probability of a particular category and does not provide coherent forecast for the response variable. This unique and undesirable property of linear regression with categorical data impedes the use of OLS which otherwise is the simplest and distributionally robust method. The logit or probit kind of solution is heavily distribution dependent or link function dependent. Failure of such distributional assumption of the underlying latent variable model may cost the estimators heavily and may lead to biased and inconsistent estimates, in general. In this paper, we attempt to fix the inherent problem of linear regression by suggesting a simple manipulation which, in turn, leads to consistent estimates of probability of a category, and results in coherent forecasts for the response variable. We show that the proposed solution provides comparable estimates, and sometimes, with respect to some criterion, the proposed method is even slightly better than the logit kind of models. Here, we consider different underlying error distributions and compare the performances of the two models (in terms of their respective residual sum of squares and also in terms of relative entropy) based on simulated data. It is evidenced that the OLS performs better for many distributions, viz., Gamma, Laplace, and Uniform error distributions.

Keywords Logit model · Ordinary least square · Residual sum of squares
Relative entropy

A. Biswas
Applied Statistics Unit, Indian Statistical Institute, Kolkata, India

S. Das
Economic Research Unit, Indian Statistical Institute, Kolkata, India

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Department of Statistics, University of Calcutta, Kolkata, India
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A. K. Laha (ed.), *Advances in Analytics and Applications*, Springer Proceedings
in Business and Economics, https://doi.org/10.1007/978-981-13-1208-3_18

Nonparametric approaches for comparing three-period, two-treatment, four-sequence crossover designs

Suryakish Chatterjee^a and Uttam Bandyopadhyay^b

^aDepartment of Statistics, Bidhannagar College, Kolkata, India; ^bDepartment of Statistics, University of Calcutta, Kolkata, India

ABSTRACT

The paper describes nonparametric approaches for comparing three-period, two-treatment, four-sequence crossover designs through testing the hypothesis that the treatments are interchangeable. The proposed approaches are based on a model which incorporates, along with the direct treatment effects, self and mixed carryover effects. Related asymptotic results are obtained. Comparisons among the designs are made numerically with respect to type I error rate and power of the tests considering compound symmetry and autoregressive covariance structures of the response variables. Lengths of the confidence intervals of the treatment differences are also used to make comparative study among the designs.

ARTICLE HISTORY

Received 18 January 2018
 Accepted 24 January 2019

KEYWORDS

Asymptotic distribution; asymptotically distribution-free; Balaam's design; crossover design; mixed carryover effect; self carryover effect; step-down approach

1. Introduction

In clinical research, where two or more treatments are under comparison, patients receive treatments in groups. Here it is important that single measurement from each patient is not appropriate in the statistical sense and it may produce bias due to his/her initial condition. This emerges the concept of repeated measurement studies by which subjects are given treatments more than once over time. Crossover and parallel group trials produce such studies in practice. In particular, when disease under study is chronic and stable (e.g. cancer, arthritis, obesity, asthma), clinical researchers are inclined to crossover trials as they possess certain medical ethics.

In crossover design with more than two periods, there should be a restriction to those designs in which the first two periods represent one of the basic crossover designs. Thus, for comparing two treatments, denoted by A and B , through crossover design, the first two periods should be $\{AB, BA\}$ (usual crossover design) or $\{AA, AB, BA, BB\}$ (Balaam's design). See, for example [1–3]. This is because of the fact that, if the extra treatment periods result in an excessive number of withdrawals, it will still be possible to carry out analysis with the first two periods in the usual way [4]. This leads us an approach to get a three-period design with a view to achieve higher efficiency than the corresponding two-period crossover design.

যাদবপুর বিশ্ববিদ্যালয়
কলকাতা-৭০০০৩২, ভারত



*JADAVPUR UNIVERSITY
KOLKATA-700 032, INDIA

Ref. No: D-7/SC/1305/16

Dated: 09. 11. 2016

To,
Smt. Nibedeeta Rani Sarraf
C/O: - Prof. Parimal Karmakar
Head
Dept. of Life Sc. & Bio-technology
Jadavpur University
Kolkata-700032

INDEX No: 221/16/Life Sc./25

Dear Sir / Madam,

With reference to your application for the registration for Ph.D.(Science) degree of Jadavpur University, I am to inform you that you are permitted to register your name on payment of requisite fees for Ph.D. programme of Rs.22,000/- (Rupees Twenty-Two Thousands Only), payable in three semi annual installments (Rs.8000/- + Rs.8000/- + Rs.6000/-). It may be noted that this offer is provisional until all the documents mentioned below are submitted.

The registration will be valid from the date on which the fees are paid and shall remain valid for five years from that date. Subsequently the period of registration may be extended only for two consecutive one year terms if the grounds for extension satisfy the Doctorate Committee. An application requesting extension and citing the grounds for the same must be submitted each time, duly forwarded and recommended by the supervisor(s), before the date on which the validity of the registration expires.

The scheme of the work and title of the thesis, if not submitted along with the application, shall have to be submitted within one year from the date of registration of the candidate. Otherwise, the registration is liable to cancellation as per Regulations of the University.

If the registration fee is not paid within a month from the date of issue of this letter, your application stated above will be treated as cancelled. The registration is liable to cancellation if the progress of work is not satisfactory. It may be noted that you will have to fulfil the condition of residence requirement and have to complete the course work within two years from the date of registration as laid down in the Regulations of the University.


Mode of payment as follows:

- 1st instalment - within 30 days.
- 2nd instalment - within 180 days
- 3rd instalment - within 365 days.

List of required documents:

- ✓ (i) Original Migration Certificate. → Received on 23/11/16

Yours faithfully,


(Dr. Atiskumar Chattopadhyay)
Secretary
Faculty of Science.

Phone : (033) 2337-4761
Fax : (033) 2337-4782

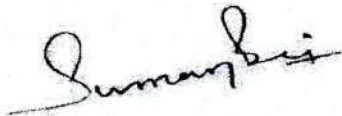
NETAJI SUBHAS OPEN UNIVERSITY
BIDHANNAGAR COLLEGE STUDY CENTRE
EB-2, SALT LAKE, SECTOR - I, KOLKATA - 700 064

Ref. No.....

Date.....20.....

Report on MoU between Bidhannagar College and Netaji Subhas Open University

The Memorandum of Understanding MoU was signed between Netaji Subhas Open University and Bidhannagar College on 27th December 2022. The event was taken place in the Netaji Subhas Open University main campus at Salt Lake Kolkata 64. The principal of Bidhannagar College, Dr. Saurabh Chakraborti and the Director of Study Centre, Netaji Subhas Open University, Dr. Asit Baran Aich signed this MoU. Assistant Director, Study Centre, NSOU and the Academic Coordinator, Bidhannagar College Study Centre were also present in the event. This MoU was the extension and revalidation of the previous MoU with the study centre for successful and smooth running of the PG courses of NSOU at Bidhannagar College. Bidhannagar College Study Centre also known as Bidhannagar College Learners Support Centre (LSC) will provide different logistics and infrastructural facilities, academic and research support to the learners for their academic and professional development. Present student strength of the LSC is 25 per batch.



Academic Coordinator

NSOU LSC (I-09)

Bidhannagar College

Salt Lake, Kolkata-64

ACADEMIC CO-ORDINATION
NSOU STUDY CENTRE
BIDHANNAGAR COLLEGE
EB-2, SECTOR - I
SALT LAKE KOLKATA - 64



सत्यमेव जयते

GOVERNMENT OF WEST BENGAL

BARASAT GOVERNMENT COLLEGE

NAAC ACCREDITED "A" GRADE & DST-FIST SPONSORED COLLEGE



10, K.N.C. Road, Barasat, Kolkata - 700124, West Bengal, India

Phone : (033) 2562 5053, Office : (033) 2552 3365, Fax : (033) 2562 5053, Website : www.bgc.a.in, Email : principal@bgc.ac.in

Memo no

Date

The following collaborative activities have been completed in accordance with the Memorandum of Understanding signed by Barasat Government College, Barasat and Bidhannagar College, Salt Lake on 19th May 2023.

Activity Type	Date/ Duration	Faculty details	Activity details Syllabus/Paper code/ Topic Covered	Number of participants
1. Syllabus Oriented Class	24/05/2023	Ms. Rituparna Khan, Assistant Professor, Department of Geography, Bidhannagar College	UG Semester IV Topic: Growth and Development	51
2. Seminar Lecture	25/05/2023	Dr. Swaty Mitra Assistant Professor, Department of English, Bidhannagar College	UG Semester IV Topic: Representing the Partition	29
3. Seminar Lecture	25/05/2023	Dr. Swaty Mitra Assistant Professor, Department of English, Bidhannagar College	UG Semester II Topic: Towards the Enterprise on Two-inches of Ivory: The Early English Novel.	42
4. Seminar Lecture	25/05/2023	Dr. Tina Barma Assistant Professor, Department of Economics, Bidhannagar College	UG Semester II and IV Use of Software for Research in Economics	16
5. Syllabus Oriented Class	26/05/2023	Dr. Shrabana Mazumder, Assistant Professor, Department of Geography, Barasat Government College	UG Semester IV Topic: Environmental Pollution and Degradation	11



Chattoji

Principal

Barasat Government College

Dr. SAMAR CHATTOPADHYAY
West Bengal Senior Education Service
PRINCIPAL, Barasat Govt. College.
Government of West Bengal.



[Signature]

Principal

Bidhannagar College
Principal

Bidhannagar College
Salt Lake, Kol-64

[Signature]



Signing of MoU with Barasat Government College



Signing of MoU with Vital waste

MoU Report of Vital waste



No.

2157



VITAL WASTE

A RECYCLING AND WASTE MANAGEMENT COMPANY

(A BRAND OF REDIVIVUS RECYCLERS PVT.LTD.)

GSTIN : 19AAHCR7603N1ZT

54/7B, D.C. DEY ROAD, KOLKATA - 700015

Bill To : Bidhannagar College

Address : Sector 1, Block EB, Salt Lake, Kolkata Date: 13.06.2024

PARTICULARS	QNTY.	RATE	AMOUNT
Newspapers			
Books & Magazines			
Shredded Papers			
Mixed Papers			
✓ Low Grade Papers /Boards	35 KGR		
✓ Cardboards	6 KGR		
Plas c Pets			
✓ Plas c Others/ Rappers	7 KGR		
E-Waste			
Low Grade E-Waste			
✓ Glass Bo les	33 KGR		
Tin			
✓ Metal	3 KGR		
Lens Cu ng			
Burnt Oil			
✓ Hazardous Waste	22 KGR		
TOTAL	106 KGR		

Thank You For Using Vital Waste

R. Roy 13/06/24

Client Signature With Stamp

K. Thapa

Vital Waste Representative Signature

PH NO - 9874481121

Mail Id - vitalwaste@gmail.com

WEB - www.vitalwaste.com

MoU Report of Vital waste

A MoU was signed between Bidhannagar College and Vital Waste Company on 28th July 2022. They offered us to take paper waste, liquid waste and other types of wastes like metal and plastic wastes from the different departments of Bidhannagar College. They also provided containers for collecting hazardous liquid waste. Being a government College it was the duty of the college authority to provide the information to the Higher Education Department about the MoU. After sending a letter to the Higher authority, an initiative was taken from the college as well as from Vital Waste company for the collection of waste materials. Various items like wastepaper, broken bottles, cartoons, plastic wastes, and hazardous liquid were collected on 13th June 2024 by two persons reaching the College with the vehicle for waste collection. At least 10 departments both from Science and Humanities discipline as well as the College Office participated in this waste disposal process. About 106 kg was collected from these departments. This MoU ensures a cleaner environment for the College campus.



पश्चिमवङ्ग पश्चिम बंगाल WEST BENGAL

AP 207590

K. S. Chakrabarty
Sydney Chatterjee

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

BIDHANNAGAR COLLEGE

AND

WE FOR ALL

IMPLEMENTING EMPLOYABILITY COMMUNICATION SKILL DEVELOPMENT PROGRAM.

S. No. 236 - 1000

- 3 MAR 2023

Name: We P. A. A.

Address: 33A, ... Rd. Post-27-

Vehicle No: ...

IN ...
...

RECEIVED ...
...

The memorandum of understanding has been made and agreed upon between the parties mentioned below and signed on the 10th day of the month of March 2023.

between

BIDHANNAGAR COLLEGE, EB 2, Salt Lake Sector I, Kolkata 700064, which expression shall unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and assigns, acting through its authorized representative. **DR.SAURABH CHAKRABORTI**, Principal, Bidhannagar College

and

WE FOR ALL, a public charitable trust incorporated under the Indian Trust Act having its registered office at Tripama, C/1/4,39A, Gobinda Auddy Road Kolkata 700027

EDUCATIONAL CENTRE

BIDHANNAGAR COLLEGE, EP-2 Saltlake, Kolkata 700064 will be registered with West Bengal State Council of Technical & Vocational Education and Skill Development, Govt. of West Bengal as a Centre for learning of "**COMMUNICATION SKILL IN ENGLISH**".

*Kalyan Chakrabarty
Principal
Bidhannagar College*

A.BACKGROUND AND PURPOSE

The Government of West Bengal has an integrated approach to skill development in the State and in the Department of Technical Education.

West Bengal State Council of Technical & Vocational Education and Skill Development, Govt. of West Bengal, has designed a communication skill development course to teach Communication skills in English to Undergraduate Students and also the course is affiliated with them.

The course will be conducted by **WE FOR ALL**, the students have to get registered with the West Bengal State Council of Technical & Vocational Education and Skill Development, Govt. of West Bengal, and on successful completion of the course, the assessment will be done by the West Bengal State Council of Technical & Vocational Education and Skill Development and accordingly Certificate will be issued by them to successful students.

Along with this soft skills, life skills, and preparation for the interview will be done.

WE FOR ALL is an apolitical autonomous public charitable trust Regd.No 6110/17 Registration of Indian Trust Act 1882 and a nonprofit organization having registration under section 12AA of the Income Tax Act,1961 is tax exempted and is organized by Tax Authorities as an organization established for charitable purposes.

WE FOR ALL is working with the objective of people-centric development through its charitable activities throughout West Bengal.

BIDHANNAGAR COLLEGE and **WE FOR ALL** will be henceforth referred to independently as the First Party and Second Party respectively and collectively as parties.

BIDHANNAGAR COLLEGE is referred to as **BNC** and **WE FOR ALL** referred to as **WFA**

This agreement is witnessed and the parties hereto agree to as follows:

B.OBJECTIVES

This agreement is for collaborating efforts of both parties for the implementation of "Communication Skill in English" which is affiliated with the West Bengal State Council of Technical & Vocational Education and Skill Development, Govt. of West Bengal.

1. **BNC** will identify the students of the college to commence the training
2. The entry students shall be from the 1st Semester and the course duration would be for a period of total of 120 Hrs. for the period of three/four academic years.
3. Minimum intake of the students: is 30 nos and the Maximum intake of the students: is 50 nos per class.
4. The entire intervention would bear a cost. This includes registration of students with the West Bengal State Council of Technical & Vocational Education and Skill Development Govt. of West Bengal. tuition fees and educational tools that contribute to the learning experience for students. The students will have to bear this cost.

C. ACTION POINTS

1. BNC WILL

- i. Will identify at least 30 students for the course and maximum of 50 students on the basis of the admission test..
- ii. Ensure the class hours are adjusted in order to accommodate 120 hours of classroom Training
- iii. Assist WFA with any requirement as required to ensure smooth implementation of the course.

2. WFA

- i. Prepare content as designed by the West Bengal State Council of Technical & Vocational Education and Skill Development, Govt. of West Bengal, and British Council and submit a course schedule to BNC.
- ii. Ensure well-trained trainers for the institute to ensure the overall success of the project.
- iii. Monitor the program by conducting periodic assessments to ensure that the trainers do a quality job.

D. DURATION TERMS OF THE MoU

1. The MOU will be valid for three(3) years from the date of signing and may be extended from time to time in writing by the parties.
2. The memorandum of understanding is a document of good faith and implementation of the MoU would be monitored on a quarterly basis...

E. CHANGES/AMENDMENT

1. No change can be made to this MoU without written consent and duly signed by all the parties' addition, deletion, and /or alterations to this MoU may be effected with the written agreement of all the parties to this MoU concerning the changes.
2. Documents containing such additions, and deletions. And/or alterations and signed by all parties shall form addenda to this MoU and be deemed to be part of MoU.

F. TERMINATIONS

1. The parties can terminate this MoU after serving three months' notice in writing if there is failure/breach of understanding or default by either her party other than on force majeure grounds..
2. At the time of termination either party shall be liable to the other here under or in relation hereto for fees paid, including the amounts invoiced but not paid.

G. FORCE MAJEURE

1. Neither party shall be liable to the other for failure or delay in the performance of any of its obligations under this MoU for the time and the extent such failure or delay is caused due to acts of god, natural disaster, fire, floods, explosions or earthquake, epidemic or quarantine restrictions, serious accidents, war, insurrection of riots, strikes, explosions or labor troubles, or any other cause beyond the affected party's reasonable control provided that sufficient notice of the such occurrence of force majeure is communicated to the other party.

H. LEGAL/FINANCIAL OBLIGATION

This MoU is not a legally binding agreement but is only a definitive expression and record of the purpose and intention of the parties. Each party will bear its own costs resulting from its participation in activities undertaken in furtherance of this MoU. No part of this MoU is intended to be a binding legal obligation to provide funds, goods, or services.

Handwritten notes:
Kalyan Choudhury
Bijaya Chatterjee

Handwritten signature:
Chatterjee

In the witness whereof the above name parties have hereunder set and subscribed their respective

Signature on the day Month and year first above written

WE FOR ALL

Sujata Chatterjee
President

[Signature]
10.02.2023
Principal
Bidhannagar College
Salt Lake, Kol-04

Sujata Chatterjee

WE FOR ALL

TRUSTEES

BIDHANNAGAR COLLEGE

WITNESSES:

1. *[Signature]* 10.03.2023
Head of the Department
Department of English
Bidhannagar College
Government of West Bengal
2. *[Signature]* 10.3.2023

Assistant Professor
W B E S.
Department of English
BIDHANNAGAR COLLEGE



COMMUNICATION SKILL IN ENGLISH

A Certificate Course of West Bengal State Council of Technical & Vocational Education & Skill Development
 Conducted by: **WE FOR ALL** (A Non-Government Non-Profit Organization)
 in collaboration with
BIDHANNAGAR COLLEGE

COURSE CO-ORDINATOR
Dr. Srimanta Das, Department of English, Bidhannagar College
 (Contact no: 9830540259 E-mail id - srimanta007@yahoo.com)

FACULTY MEMBERS

<p>Chandana Chowdhury – M.A. (English)</p>  <p>Vast experience for over 40 years IELTS teacher and examiner - British Council, Oman Winner of An Inspiring Woman (2019) Awarded best presenter at the International ELT Conference at Sultan Qaboos University, Muscat</p>	<p>Gargi Ghosh (M.A, B.Ed., M.B.A, TEFL)</p>  <p>An Educator with a quest for knowledge and passionate for various forms of arts Top Educators of India (2020) Top 100 Iconic Educators of India (2021)</p>
<p>Amit Das (B. Com.)</p>  <p>Corporate Trainer - Fidelity National Personality Development Trainer - Frankfinn Soft Skill Trainer - Vertex</p>	<p>Swamapi Biswas Das (B.Ed., B. Com., TEFL)</p>  <p>Business English - Goenka College of Commerce TEFL Advanced Diploma - ACT Spoken English Instructor – Iris World School, Telangana</p>


Sucheta Dhar (M.A. in Psychology)
 Counsellor and co-ordinator
 Former intern (Nil Ratan Sarkar Medical College)

Collaborative Certificate course in Communication skills in English for the Students of Bidhannagar College (MoU signed in 10.03.2023)



WE FOR ALL
 Bidhannagar College
 Registrar Office, Bidhannagar, West Bengal, India
 Head Office: Bidhannagar, West Bengal, India
 Branch Office: Bidhannagar, West Bengal, India
 Contact No: 9830540259
 E-Mail: weforall@bidhannagarcollege.edu.in

WE FOR ALL
 WE FOR ALL is a non-profit organization with the noble objective of providing different avenues of professional life, to serve society in the field of well-being of all ages, specially women, gender equities and targeted to work for our SDGs.
 We are engaged in Education and Skill Development, Technical Training to help to reach communities. We also include to minimize carbon footprint, provide green energy.

GPS Map Camera

Kolkata, West Bengal, India
 ADMINISTRATIVE BUILDING, BIDHANNAGAR COLLEGE, 3rd Ave, EB Block, Sector 1, Bidhannagar,
 Kolkata, West Bengal 700064, India
 Lat 22.586306°
 Long 88.405964°
 07/03/24 01:47 PM GMT +05:30

Google

CSE PROGRAM 2024 - SEASON 1

DEBATE

COMPETITION

CONDUCTED BY : ENGLISH DEPT & WE FOR ALL


 AGAINST

VS


 FOR

MARCH 07 2024 BEGINS AT 12 NOON

Topic:: Indian Style of Parenting is better than Western Style

VENUE: AUDITORIUM

BIDHANNAGAR COLLEGE, SALT LAKE



GPS Map Camera



Kolkata, West Bengal, India
ADMINISTRATIVE BUILDING, BIDHANNAGAR COLLEGE, 3rd Ave, EB Block, Sector 1, Bidhannagar,
Kolkata, West Bengal 700064, India
Lat 22.585313°
Long 88.405968°
07/03/24 12:29 PM GMT +05:30