



सत्यमेव जयते

Government of West Bengal
Office of the Principal

GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

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Criteria 3: Research, Innovations and Extensions

3.3. Research Publications and Awards

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

| Year | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|----------------------------------|------|------|------|------|------|-------|
| Number of Book Chapter Published | 04 | 05 | 06 | 04 | 04 | 23 |

Year wise Front page of the Book/Book Chapters

2022

2021

2020

2019

2018



Chakrabarty
Officer-in-Charge
Govt. Gen. Degree College
Keshiary



দ্বিতীয় পর্যায়

প্রবহমান বাংলাচর্চা

বসিরহাট কলেজের বাংলা বিভাগ ও আইকিউএসি এবং
প্রবহমান বাংলাচর্চার যৌথ উদ্যোগে আয়োজিত
একদিবসীয় আনুষ্ঠানিক আলোচনাচক্রে উপস্থাপিত পূর্ণাঙ্গ প্রবন্ধ সংকলন



প্রবহমান বাংলাচর্চা ৬

নির্বাচিত গবেষণাধর্মী প্রবন্ধ সংকলন

(দ্বিতীয় পর্যায়)

বাংলাচর্চার সপ্তম আন্তর্জাতিক আলোচনাচক্রে উপস্থাপিত
বিশেষজ্ঞ শংসায়িত নিবন্ধাবলি

সম্পাদনা

সনৎকুমার নস্কর

সম্পাদনা সহযোগী

সুধাংশুকুমার সরকার

ধনেশ্বর দাস

প্রণব নস্কর

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সুজয়কৃষ্ণ চক্রবর্তী

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পিনাকেশ সরকার

সত্যবতী গিরি

দীপক কুমার রায়

মীর রেজাউল করিম

তপন মণ্ডল

বারুইপুর

কলকাতা - ৭০০১৪৪

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প্রবহমান বাংলাচর্চা ৬

(দ্বিতীয় পর্যায়)

নির্বাচিত গবেষণাধর্মী প্রবন্ধ সংকলন
বসিরহাট কলেজ, উত্তর ২৪ পরগনা-তে আয়োজিত
'প্রবহমান বাংলাচর্চা'র সপ্তম আন্তর্জাতিক আলোচনাচক্রে উপস্থাপিত
বিশেষজ্ঞ শংসায়িত নিবন্ধাবলি

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আফগান শাসনকালে বাংলার সমাজ চিত্র

আলাউদ্দিন শেখ

আফগানরা বাংলায় খুবই অল্প সময় মাত্র ৩৮ বছর (১৫৩৮-১৫৭৬ খ্রিস্টাব্দ) শাসন করেছিলেন। এই স্বল্প সময়কাল বাংলার রাজনৈতিক, প্রশাসনিক ও সামাজিক পরিবর্তনের কারণে গুরুত্বপূর্ণ। শের খানের গৌড় বিজয়ের মাধ্যমে বাংলা আফগানদের দখলে আসে।^১ বাংলায় আফগান শাসনের সবচেয়ে গুরুত্বপূর্ণ ঘটনা হল প্রশাসনের বিকেন্দ্রীকরণ। যার ফলস্বরূপ বাংলায় বারো ভুঁইয়াদের জন্ম হয়েছিল। এই সময়কালে বাংলায় এমন এক অরাজক পরিস্থিতির সৃষ্টি হয়, যেটিকে আফগান ঐতিহাসিক খাজা নে'মাতুল্লাহ বিন খাজা হাবীবুল্লাহ আল-হারাভী 'মুলুক আল তাওয়ায়েক' (জোর যার মুলুক তার) বলে তাঁর গ্রন্থে বর্ণনা করেছেন।^২

ত্রয়োদশ শতকের শুরুতে লক্ষণাবতী মুসলমানদের দখলে আসে এবং সেখানে মুসলিম শাসন প্রতিষ্ঠিত হয়েছিল। সেই সময় থেকেই বাংলায় বিদেশীদের বিশেষত আরবীয়, ইরানী, তুর্কি, আবিসিনিয়াদের অনুপ্রবেশ শুরু হয়। শের খানের বাংলা দখলের সাথে সাথে এই অনুপ্রবেশের হার বেড়ে যায়। আফগান এবং অন্যান্য অভিবাসী মুসলিম জাতি গোষ্ঠীগুলির নিজস্ব স্বতন্ত্র জীবন বৈশিষ্ট্য ছিল। গোত্রীয় স্বতন্ত্রতা বজায় রেখেই তারা একটি জীবন পদ্ধতি অনুসরণ করে চলত। কিন্তু, স্থানীয় ধর্মান্তরিত মুসলমানেরা হিন্দু সমাজের বিভিন্ন বর্ণ থেকে এসেছিল, বেশিরভাগই নিম্নবর্ণ থেকে। অভিবাসী সকল মুসলিম জাতি গোষ্ঠীগুলির সাথে স্থানীয় ধর্মান্তরিত মুসলমানদের পারস্পরিক বৈবাহিক সম্পর্কের মাধ্যমে এক মিশ্র প্রজন্মের বিকাশ ঘটেছিল।^৩ সকল গোষ্ঠীগুলির ভিন্ন বৈশিষ্ট্যের মানুষের মধ্যে সমন্বয় ঘটানো আফগান শাসকদের কাছে একটি বিরাট চ্যালেঞ্জ ছিল।

শের খান নিজে আফগান বংশোদ্ভূত হওয়ায় আফগানদের বিভিন্ন গোত্রীয় ও উপজাতীয় চরিত্র, রীতিনীতি, স্বভাব ও স্বাধীনচেতা মনোভাব সম্পর্কে সম্পূর্ণ জ্ঞানবিশাল ছিলেন। তিনি ক্ষমতারোহণের সাথে সাথে মুসলমান সমাজের বিভিন্ন গোষ্ঠীকে ঐক্যবদ্ধ করার লক্ষ্যে নিজেকে সুলতান না বলে 'যুগের খলিফা' বলে প্রচার করেন এবং তাম্রমুদ্রা প্রচলন করে তা জানিয়েও দিয়েছিলেন।^৪ পাশাপাশি তিনি হিন্দি ভাষাকে মুদ্রার ভাষা হিসেবে গ্রহণ করেন, ফরাসি ভাষার মতো হিন্দি ভাষাকেও রাষ্ট্রীয় ভাষার মর্যাদা দান করেছিলেন।^৫ সরকারি বিভিন্ন পদে তিনি বংশ কৌলীন্যের পরিবর্তে মেধাকে গুরুত্ব

ব্রজশ্রী বীণাধ্বজ



চয়ন পাবলিশার্স

সম্পাদনায়
নূরমহম্মদ সেখ
সামিমা নাসরিন

প্রসঙ্গ বীরভূম

সম্পাদনায়—

নূরমহম্মদ সেখ

সামিমা নাসরিন



চয়ন পাবলিশার্স

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প্রসঙ্গ বীরভূম

প্রকাশক—

পার্থ সারথী দাস

চয়ন পাবলিশার্স

কাষ্ঠগড়া, রামপুরহাট, বীরভূম, পশ্চিমবঙ্গ, পিন- ৭৩১২১৬

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সম্পাদনায়—

নূরমহম্মদ সেখ

সামিমা নাসরিন

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প্রথম সংস্করণ— এপ্রিল ২০২২

প্রচ্ছদ নির্মাণ—

প্রদীপ চক্রবর্তী

ফুলিয়া, নদীয়া

মুদ্রণে—

হর্ষ এন্টারপ্রাইজ

কাষ্ঠগড়া, রামপুরহাট, বীরভূম, পশ্চিমবঙ্গ, পিন- ৭৩১২১৬

মোবাইল—৮২৫০৬০১৪০৭/৯৭৩৪৬২৫০২৭

বিনিময় মূল্য— ৫২৫ টাকা

সূচিপত্র

পৃষ্ঠা

১। বীরভূমের পুঁথি সম্পদ ৯

—ড. অনুপ কুমার সাঁতরা

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এবং গ্রামীণ পর্যটনকেন্দ্র বদ্বড়পুরডাঙ্গা ও খোয়াই:

একটি সাংস্কৃতিক ও বাস্তবসংস্থানিক অধ্যয়ন

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—ড. জগন্নাথ মণ্ডল

৪। স্বাধীনতা পূর্বে বীরভূমের নাট্যচর্চা

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—উজ্জ্বল মুখোপাধ্যায়

৫। সাঁওতাল বিদ্রোহের (১৮৫৫-৫৬) প্রেক্ষিতে বীরভূমের ইতিহাস

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—কুন্দুছ আলি মণ্ডল

৬। বীরভূমের সম্প্রীতি ও সমন্বয়বাদী সংস্কৃতি রক্ষায়

সুফি পীরদের অবদান

১১০

—আলাউদ্দিন শেখ

বীরভূমের সম্প্রীতি ও সমন্বয়বাদী সংস্কৃতি রক্ষায় সুফি পীরদের অবদান

আলাউদ্দিন শেখ

বাংলার হিন্দু-মুসলমানের মিলিত সাধনার এবং বাংলার লৌকিক ইসলামের এক উল্লেখযোগ্য দৃষ্টান্ত হল পীর পূজো। শতকরা পঁচানব্বই জনেরও বেশি বাঙালি মুসলমান পীরবাদে বিশ্বাসী এবং মুসলমানদের এই বিশ্বাস তাঁদের প্রতিবেশী হিন্দুদেরকেও প্রভাবিত করে।^১ বাংলার অন্যান্য জেলার মতো বীরভূম জেলার ক্ষেত্রেও কথাটি সমানভাবে প্রযোজ্য। বীরভূমের প্রায় প্রতিটি গ্রামেই পীর পূজোর প্রচলন আছে। ফার্সি 'পীর' কথার অর্থ 'বৃদ্ধ ব্যক্তি', পীর বলতে এক 'অতীন্দ্রিয় পথপ্রদর্শক' (শাহ, শেখ, মুরশিদ) অথবা সুফিকে বোঝানো হয়, যিনি তাঁর শিষ্য (মুরিদ)দের দীক্ষা দেন এবং গভীর ধর্মীয় তত্ত্বের সঙ্গে পরিচয় করিয়ে দেন। প্রত্যেক পীরই সুফি কিন্তু সকল সুফিসাধক পীর ছিলেন না। সুফিতত্ত্বে মুসলিম সন্তকে 'পীর-পয়গম্বর' বলা হয়। এই 'পীর-পয়গম্বর' শব্দ দু'টি একসাথে উচ্চারণ করা হয়। এর অর্থ '*highly honourable angel and predictionist*' মারফতের কঠোর সাধনা করে তিনি স্বর্গীয় জ্ঞান অর্জন করেছেন। সুফি আধ্যাত্মবাদে বা পীরবাদে তান্ত্রিক বিশ্বাস ও বৌদ্ধধর্মের থেরবাদের প্রভাব পরিলক্ষিত হয়।^২

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Tribal Identity

Contradictions of Ascribed and Self-Asserted Perspectives

Edited by
Jesurathnam Devarapalli



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Chapter - 8

Lepcha Identity Revisited: From 'Vanishing Tribe' to 'Primitive Tribe'

Aritra Samajdar

Introduction

Colonial writers like G. B. Mainwaring first described the Lepcha people as a 'dying race'. Later, with the publication of A. R. Foning's influential book *Lepcha, my Vanishing Tribe* in 1987, a large number of people started to consider the Lepcha people to be disappearing. The notion, 'dying race' or later 'vanishing tribe' with reference to both Lepcha culture and community became popular in public as well as in academic circles and influenced planning and policy-related issues.

A sense of loss in Lepcha culture has become an integral part of describing it. Lepcha people are living with a sense of loss, as their identity became victimised and consequently their life activities too were heavily influenced. The culture, however, has not died, and the community is also still alive.

This fact opened a new vision of reality that their culture is not outdated; it has strength, and they again started to respect it. Cultural revival and integration of community began with the protest against the construction of dams in Dzongu and saving Dzongu from damage and destruction as they considered it to be their 'mythical place of origin'. This protest extended to the demand of inclusion of Lepcha into the 'Primitive Tribal

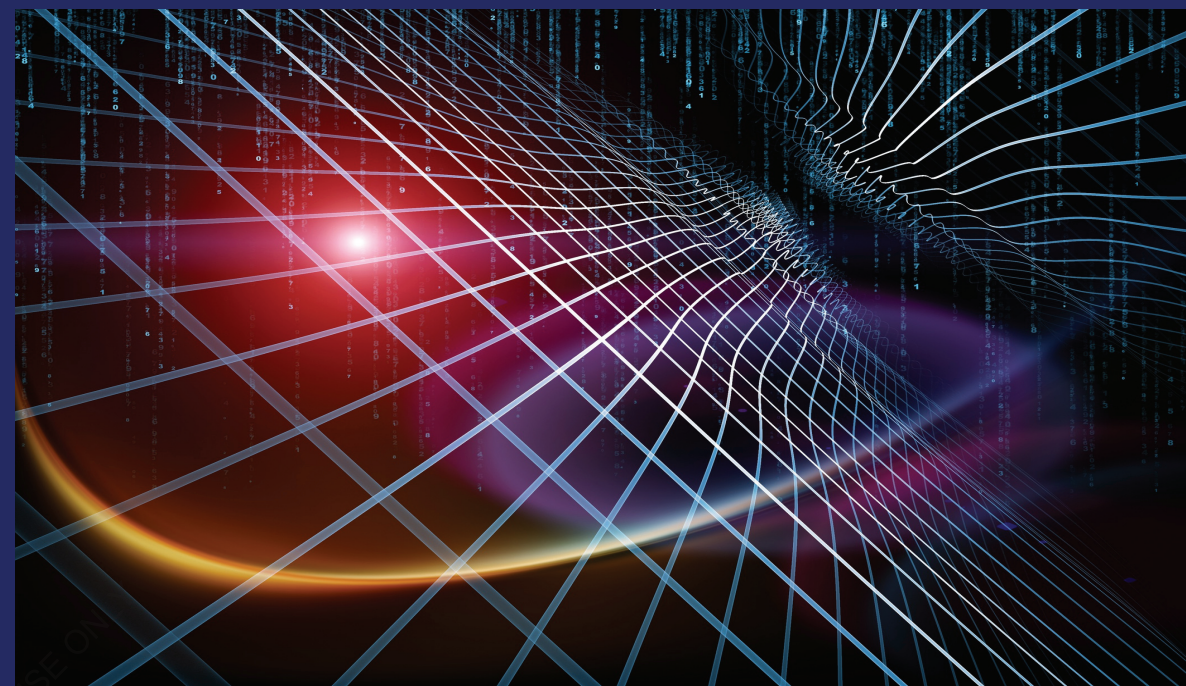
Tribal Identity

Contradictions of Ascribed
and
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The modern world is practically incomplete without the revolutionary word "Nano". The materials or particles having dimensions are in range of 1- 100 nm are typically expressed as nanomaterials or nanoparticles. The nanomaterials have created the significant consideration from the mundane to targeted drug delivery. There are many commercial products which are made of nanomaterials, especially, clear nanoscale films on eyeglasses, nanoscale additives for surface treatments of fabrics, light-weighting materials for transportation systems, computer camera display, solar panels, smart fabrics, LED lights, high power rechargeable battery, automotive products, fuel additives for cleaner exhaust and extended range, lubricants, different electronics materials, materials for aircrafts, etc. As a result, we are becoming more and more interested to discuss the technological as well as biological aspects of nanoscience and nanotechnology and have organized a National Seminar entitled "Nanomaterials Physics & Chemistry: Recent Developments & Applications (NPCRDA)". The accepted papers which were submitted in this National Seminar are presented in this book.



Dr. Tapanendu Kamilya is an Associate Professor in Physics at Narajole Raj College, having 14 years teaching and 17 years research experience in field of Nanotechnology and Nanotoxicology. He has published more than 50 research papers in reputed International Journals. The total citations of his publications is 884.



TAPANENDU KAMILYA

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Inhibition of Lysozyme Amyloid Fibrillation by Graphene Oxide Quantum Dot

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Abstract:

Deposition of amyloid fibrils of protein is a pathological hallmark of various neurodegenerative disorder, such as Type 2 diabetes, Alzheimer's, Parkinson disease etc. So, for prevention and treatment of such fatal disorders it is very crucial to inhibit amyloid fibrillation process as well as and clearance of amyloid fibrils. Recently nanotechnology has grown to imply in this purpose. In this study we have targeted hereditary systemic Amyloidosis disease generating protein as our model protein, i.e., hen egg white lysozyme. Here we have revealed effect of Graphene oxide quantum dot (GOQD) on fibrillation of Lysozyme. The effect of GOQD on amyloid growth has been investigated with the help of Thioflavin T (ThT) assay. Results show that GOQD causes reduction in amyloid formation which is mainly reflected in the kinetics of amyloid formation. Thus our study provides a platform to employ GOQD as a promising therapeutic candidate to employ in amyloid related disorders.

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Dr. H.N. Thatoi, is a Professor, Department of Biotechnology, North Orissa University, Odisha, India. He is also presently working as Director of Centre for Similipal Studies, Director, North Orissa University. He has also served as Reader and Head, Department of Biotechnology, Biju Patnaik University and Technology, Odisha, Asst. Prof. (Microbiology), Basic Science College, Orissa University of Agriculture and Technology, Bhubaneswar and Senior Scientist, M.S. Swaminathan Research Foundation, Chennai. Prof. Thatoi obtained his M. Sc, M. Phil. and Ph. D. from Utkal University, Odisha, and has more than 15 years of teaching and 25 years of research experience. He has contributed immensely to the field of Microbiology and Biotechnology throughout his research and teaching career. His research activities are basically based on exploration microbial diversity, bioremediation, biofuel production, mangrove biology, bioactivity studies in medicinal plants and mushrooms, ethno pharmacology and *in silico* drug design and modeling etc. Prof. Thatoi has handled many research projects funded by the State and Central Government organisations including UGC-DAE, Govt. of India, DST, Govt. of Odisha, Department of Forest, Govt. of Odisha, etc. So far, 14 students have obtained Ph.D. under his guidance and supervision and 7 students are still continuing. Besides, several M. Sc., B.Tech and M. Tech students have received his guidance for their dissertation works. Prof. Thatoi has published more than 200 research papers in various nationally and internationally reputed journals and more than 30 book chapters in National and International publications. Prof. Thatoi has also authored two text books and 15 reference books and some Seminar Proceedings published by various notable publishers like, Elsevier, Springer, Taylor & Francis (CRC & Apple Publications), Studium Press LLC USA, IK International, Narosa publishers, Astral publication, Biotech Books, APH Publication, etc.



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Hrudayanath Thatoi • Madhusmita Sahoo



**Indigenous Tribes
and
Biodiversity Conservation**

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Biodiversity Conservation***

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Indigenous Tribes and Biodiversity Conservation

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5

Gendering Natural Resource Management among the Lepchas of Sikkim and Darjeeling

Aritra Samajdar

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ABSTRACT

Both human social and cultural categories like ‘Gender’ and activities like ‘Resource Management’ is the product of social, cultural and historical circumstances. This research paper describes the position and role of gender in an Indian Tribal society, i.e. Lepcha. At the same time it also narrates the interrelationship between gender and resource management activity. It describes how and why, in which circumstances gender became a socio-cultural category through activities and processes and practices like resource management. To investigate the structure and function of gender in the said tribal society, it also describes how gender is the part of the social system and how as part of the system it is linked to culture (here specifically references are given in relation to religion and ethnic identity). It describes how the formation of gender is strongly influenced by external forces on the communities. So, social and cultural, in this context, gender relations are always prone to change. In this socio-cultural background how gendered individuals act, is a key objective of this study. In this way resource management and economic activities became gendered as ‘Nature’ too. When a society interacts with its adjacent nature for various purposes like subsistence activity, resource management, it interacts with all its ethical understanding. In this way human activities always socialize and culturalize his/her surroundings. In this context our study focuses on the social-cultural and gendered nature of production and subsistence activity, resource management, commercialization of produces and disease management among the Lepchas of Sikkim and Darjeeling. This study also tries to explore the status and role of gender in production, distribution, consumption process. It is based on ethnographic fieldwork done in the villages of Sikkim and Darjeeling.

Keywords: Gender, Identity, Ethnicity, Resource Management, Lepcha.

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Shila Baske

Assistant Professor in Santali

Keshiary Govt. General Degree College

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Լեռնաշրջանի համայնությունը Յ.ՆՆԳՅՈՒՐԴ

Santals and their culture

Լեռնաշրջանի մասին

ԴՐ. ՄԱՐԴ ԿՈՄԻՏԵՍ

A Collection of Research articles
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ԷՏԻՑՈՒ ՈՅՈՒԷԵԶ*

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***Sheela Baskey**

Asst. Prof., Keshiyari Government College, Keshiyari

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ଲେଖକ ଏବଂ ଲେଖକଙ୍କ

ଡି.ଏମ୍.ଏମ୍.ଏମ୍.

Santals and their culture



ଲେଖକଙ୍କ

ଡି.ଏମ୍.ଏମ୍.ଏମ୍.

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លុបលុប ទៅបង. ឈ. ឈ. ឈ.

ପ୍ରତିପଦ୍ମ ପଦ୍ମ.ପଦ୍ମ*

ଲକ୍ଷ୍ମୀବିଠ ଓଡ଼ିଆ ଶିକ୍ଷକମାନଙ୍କୁ ପଞ୍ଚାଙ୍ଗ ଲେଖିବା ଓଡ଼ିଆ
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 କରାଯିବ ବୋଲି ଲକ୍ଷ୍ମୀବିଠ ଓଡ଼ିଆ ଶିକ୍ଷକମାନଙ୍କୁ
 ଏହି କଥା ଲେଖିବା ପାଇଁ ଲକ୍ଷ୍ମୀବିଠ ଓଡ଼ିଆ ଶିକ୍ଷକମାନଙ୍କୁ
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෧. බන්ධන මාර්ගය. පන.වසරකට බන්ධන පනවන :-

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"ආයතනිකව පවතින රාජ්‍යයේ වැඩ කරන අයගේ සහ සේවකයන්ගේ අයිතිවාසිකම් සුරැකි යාම සඳහා අවශ්‍ය වන පියවර ගැන සලකා බැලීම සඳහා අදාළ අමාත්‍යවරයා විසින් කටයුතු කරන බව ප්‍රකාශ කළේය."

***Shyamali Majhi**

Keshiyari Government College, Keshiyari, W.B

144 / උනෙන්නා නිසා ප්‍රතිපත්තිමය නි.බැඳුම.පැ

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Tithi Maity At present is an Assistant Professor in Chemistry of Prabhat Kumar College, Contai. Dr. Maity completed her master degree from Vidyasagar University in 2002 and have got Ph.D award from Vidyasagar University in 2007. Dr. Maity's research works are mainly focused on metal complex synthesis, enzyme synthesis mimicking, chemosensing, and interaction study of metal complexes with macro molecules (DNA, A, and Protein). Dr. Maity has published her 25 research papers in peer reviewed Journal and six edited books of different direction. Dr. Maity is the fellow of Indian Chemical society and she has got the Outstanding Paper Award from Bengal State Science Congress 2020.

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SUSTAINABLE PROGRESS OF HUMAN

Edited By
Dr. Tithi Maity

Chapter 13

Interaction of Small Molecules with DNA: An Overview on Mode of Binding

*Soumya Sundar Mati*¹, Puja Paul*²*

DNA binding small molecules is of immense interest in the arena of medicinal or clinical chemistry. Here, this study embodies a detailed investigation of binding mode between two small molecules (a Naphthalimide derivative and a phenothiazinium dye namely thionine) with double stranded DNA. With the help of some established biophysical tools like absorbance, fluorescence, circular dichroism and melting, the mode of binding of thionine was found to be intercalative. Alongside, it was also inferred that the Naphthalimide derivative as a thin ribbon-like molecules was involved in groove binding mode through hydrogen bonding or van der Waals interaction with the nucleic acid bases in the shallow minor groove of the HTDNA. Theoretical interpretation also supported the findings of experimental evidences.

Introduction:

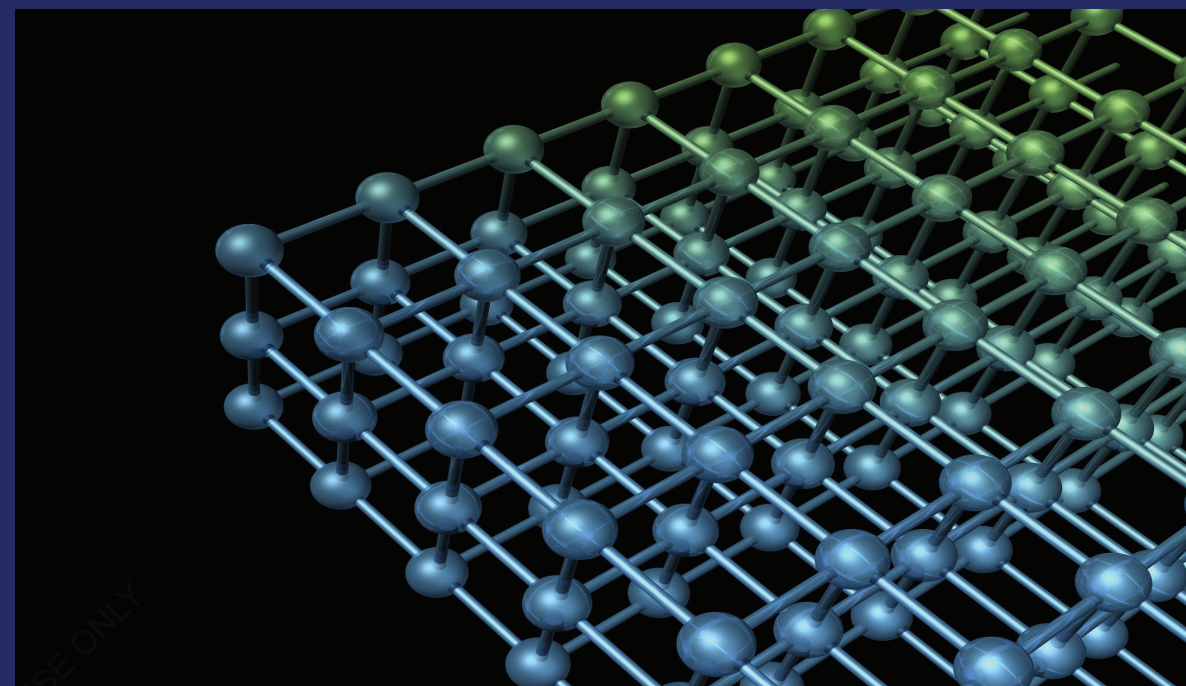
Studying the interaction of small molecules with DNA carries high significance as they are supposed to exert their primary biological effects by modulating transcription or by interfering with replication[1]. Usually, drugs bind to DNA under the following three dominant non covalent modes of interactions: (1) electrostatic, (2) intercalation and (3) groove. In electrostatic binding molecules are attached with the phosphate backbone of DNA through the electrostatic attraction. Intercalation is the insertion of molecules between the planar bases of deoxyribonucleic acid thereby distorting the DNA backbone conformation. Molecular aspect of the interaction of many aromatic molecules that essentially bind by intercalation with DNA has been the subject matter of a large number of

investigations in the past several decades [2]. The intercalative binding properties of such molecules can also be harnessed as diagnostic probes for DNA structure in addition to DNA directed therapeutics [3,4]. The groove binding occurs through hydrogen bonding or van der Waals interaction with the nucleic acid bases in the deep major groove or the shallow minor groove of the DNA helix without hampering the basic skeleton of DNA [5,6]. In this perspective, it is necessary to mention that the discovery of minor-groove recognition molecules such as distamycin and netropsin paved the way for considering the design and synthesis of DNA code-reading molecules that might ultimately target a unique sequence. In our present study, we experimentally and theoretically tried to compare the intercalative and groove binding mode of two already known small molecules to differentiate the binding procedure. In this perspective, 3,7-Diamino-5-phenothiazinium (Thionine, THN) and 2-(5-selenocyanatopentyl)-6-chloro benzo-[de]isoquinoline-1,3-dione (Naphthalimide derivative, NPD) was chosen as intercalator[7] and groove binder [8], respectively and their interaction with Herring Testes DNA (DNA) has been studied by a plethora of biophysical tools like absorbance, fluorescence, circular dichroism, melting and supported by molecular docking studies.

Experimental:

Materials: Herring testes (HT) DNA (Type XIV, 41 mol% GC) and thionine acetate (thionine/THN in general) (Scheme 1) were purchased from Sigma-Aldrich Corporation (St. Louis, MO, USA). This DNA exhibited characteristic ultraviolet absorption spectrum with an A_{260}/A_{280} ratio between 1.88 and 1.92. Concentration of the DNA duplex was determined spectrophotometrically using molar extinction coefficient values of $13,200 \text{ M}^{-1} \text{ cm}^{-1}$ expressed in terms of molarities of base pairs. THN was fairly soluble in aqueous buffers and hence its

The present world is incomplete without the revolutionary word "Nano". The nanomaterials have immense applications from the mundane to drug delivery materials. The book proceedings of the International Seminar "Recent Trends in Nanomaterials & Nanobiomaterials" entitled "Proceedings of Recent Trends in Nanomaterials & Nanobiomaterials" is consist of eight chapters written by several authors. The first chapter of this book focuses on recent applications of nanomaterials. The second chapter focuses on green synthesis of silver nanoparticles and its application on antimicrobial activity. The third chapter focuses on silver nanocluster assisted metal ion sensing. The fourth and fifth chapter focuses on nanoparticle based potential inhibitors of protein glycoxidation and modulation of nanoparticle properties conjugated to erythrocytes, respectively. The sixth chapter focuses on electrical and opto-electronic properties of zinc oxide nanoparticles. The seventh chapter focuses on temperature dependence impedance spectroscopy of ceramic materials and the final chapter focuses on the synthesis, characterization and biological application of a copper complex.



TAPANENDU KAMILYA

Proceedings of Recent Trends in Nanomaterials & Nanobiomaterials

RTNN International Seminar Proceedings



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Silver Nanocluster assisted Metal ion Sensing

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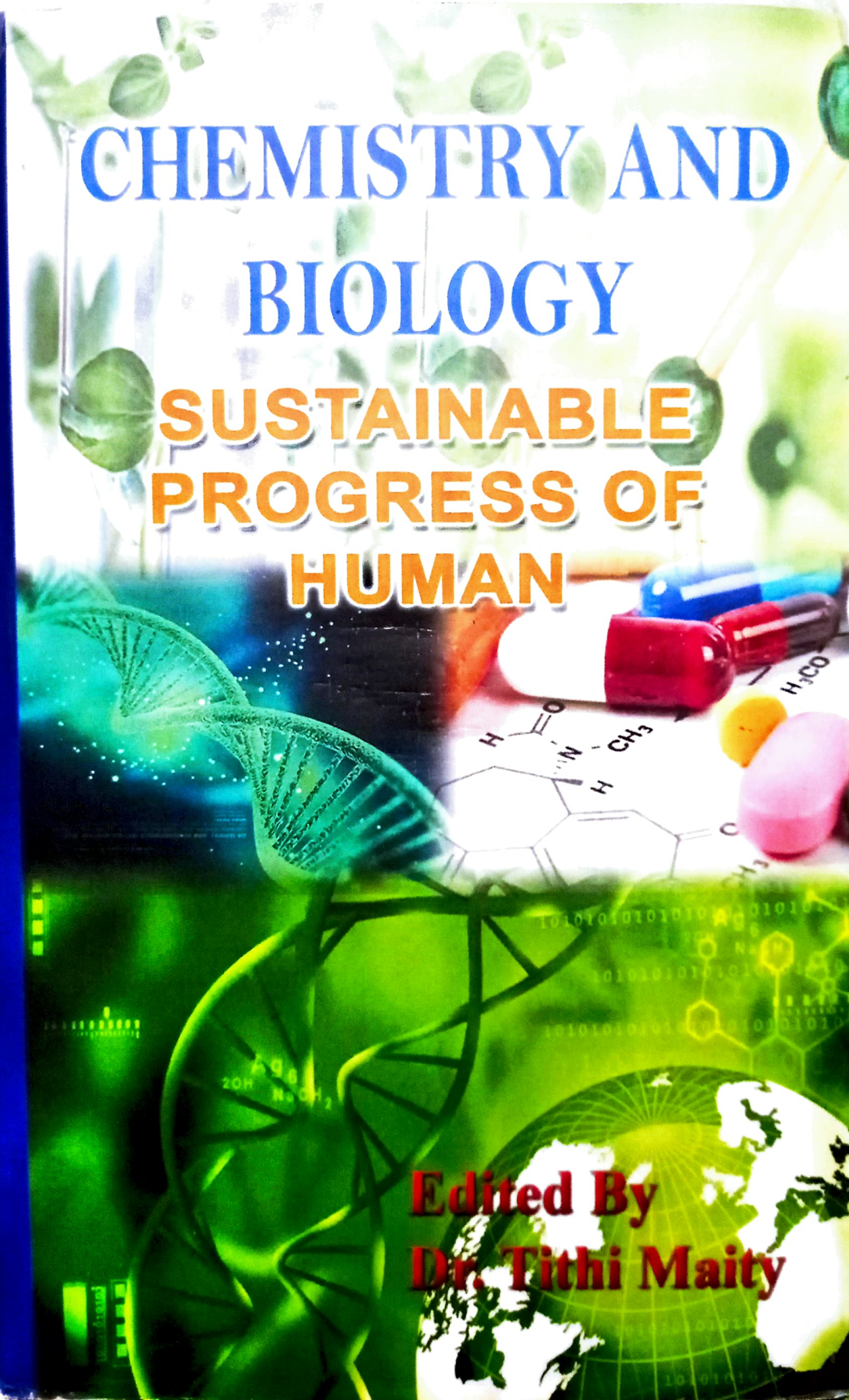
Abstract

Metal nanoclusters, nowadays, have attracted special attention due to their biocompatibility and optical appearance. Among them silver nanoclusters (AgNC) is of special interest owing to its versatile property from optical to biological applications. In this work, it has been shown that tiny sized polyetheleneimine capped AgNC (PEI-AgNC) (size ~2.4 nm) can distinguish cobalt ion (Co^{2+}), among a series of metal ions. Cobalt ions has important biological role due to its presence in vitamin B₁₂ (cobalamin). On the other hand, excess Co^{2+} may cause rhinitis, allergic dermatitis, and asthma. A plausible mechanism has also been demonstrated which explains that PEI can no longer stabilize the AgNC in presence of Co^{2+} and it leads to aggregation.

Keywords: Metal nanoclusters, Silver nanoclusters, Cobalt ion, aggregation, Fluorescence

1. Introduction

Metal nanoclusters are ultra small particles having particle size below 2 nm, which consist of several to hundred atoms. This brings them to show molecular like behaviour e.g., electronic transition, fluorescence, etc¹. Out of these nanoclusters, silver nanoclusters (AgNC) are of special interest. Till now many synthetic strategies have been developed for the synthesis of AgNC using soft template like DNA, protein, peptide etc. Recently, many studies on AgNC based sensors have been reported. Some of them are DNA capped AgNC served as Cu^{2+} , maltose functionalized AgNC for specific detection of glycoprotein, bovine serum albumin stabilized AgNC have been used to recognize cyanide, and for Hg^{2+} detection, marcaptosuccinic acid template AgNC was applied²⁻⁶. However, these are very limited. Therefore, this work aims to sense particular metal ion cobalt (Co), exclusively. The Cobalt (Co) is an important element in human body, since, it is the building block of vitamin B₁₂



CHEMISTRY AND BIOLOGY SUSTAINABLE PROGRESS OF HUMAN

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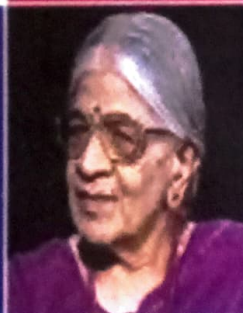
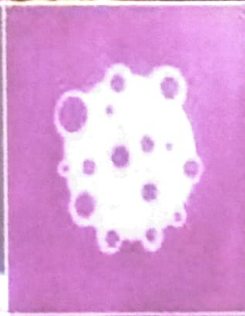
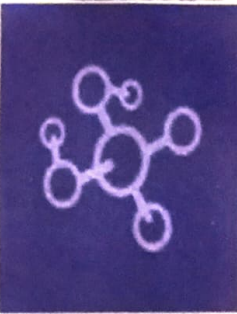
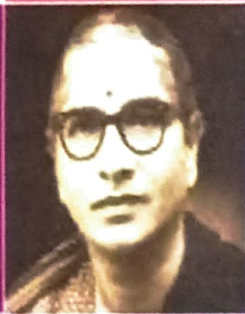
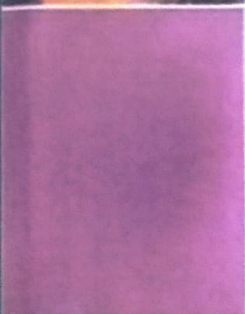
Chapter 17

Testing for toxic and undesirable contaminants of effluent water-current status and future need

Sutapa Ray

Industrial and domestic effluents are the potential threat to the environment. The extent of environmental degradation depends on the status of the effluents, type of contaminants, installed processing methods and the economics of treatment. An estimated 22900 million litres per day (Mld) of domestic sewages are generated only from the cities and towns. Amongst these, only 5900 million litres per day can be treated as per the installed treatment capacity. Approximately, 13500 million litres per day of industrial effluents are being generated from various industries and amongst which 8000 million litres per day are being treated [1, 2]. This concludes that the country is equipped with only 25.8 percent domestic sewage treatment and 60 percent industrial effluent treatment facilities. Thus, almost 22500 million litres per day of effluents, which is almost 13 billion m^3 per year, are being discharged to the natural sources without treatment [1, 2]. With discharging these effluents to the natural sources, few hundred billion m^3 of natural waters are being contaminated. India has developed and established effluent water quality standard based on the water bodies on which the effluents are being disposed of. However, the monitoring and regular testing facilities of the effluents prior to its disposal is costly and thus often neglected. Only the physical parameters, namely, colour, odour, pH, TSS (Total suspended solid) are being tested on regular basis. It is a common belief that being colourless and odourless, the water is suitable for consumption. However, there are many organic and inorganic pollutants which make the water not only contaminated but also toxic and do not

THE CONTRIBUTIONS OF INDIAN WOMEN TO SCIENCE



**Edited By
Dr. Tithi Maity**

Contributions of Indian Women to Science

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Dr. Charusita Chakravarty-An unforgettable name in Indian Chemistry

Dr. Sutapa Ray

Indians have introduced several revolutionary and extraordinary efforts in the fields of Science in the past as well as during present times, which has been their unique contribution to the progress of humanity. It is a high time to admire and salute this Spirit in our women scientists and also to honour their originality of thought and research. Dr. Charusita Chakravarty was a bright name of Stree Shakti in Indian Science.

Charusita Chakravarty was born in Cambridge, Massachusetts, USA on 5th May, 1964 as the only daughter of the famous economists Sukhamoy and Lalita Chakravarty. She was only child of her parents and grew up in a liberal academic environment in Delhi. She was brilliant in her studies and she topped the Delhi Higher Secondary Board. She pursued her B.Sc in Chemistry from St. Stephens College, and passed from Delhi University as a gold medallist in 1985. She went on to pursue a Natural Science Tripos from Cambridge and graduated in 1987 before starting her PhD, in Cambridge, on quantum scattering and spectroscopy under the guidance of David Clary. Then she became a Post-Doctoral Scholar at the University of California at Santa Barbara, under Professor Horia Metiu. After a brief visit to India, she returned to Cambridge as a Gulbenkian Junior Research Fellow in an independent Post-Doctoral position.¹

Dr. Chakravarty married her fellow scientist Rama Ramaswamy, and moved to India in 1994. The IITs were hesitant to give her a job, despite her PhD, as she had not done an M.Sc. She was then offered a position by IIT Kanpur, in their Chemistry Department. But she finally accepted a job from IIT Delhi in their Chemistry Department where she rose from an Assistant

1

The Ambivalence in Abomination: A Multi-Textual Ride(s) of the BBC Sherlock Television Movie, *The Abominable Bride*

Saranya Mukherjee

Thus ever answer'd Vaughan his Wife,
Who, more than he, desired his fame;
But, in his heart, his thoughts were rife
How for her sake to earn a name.
With bays poetic three times crown'd,
And other college honours won,
He, if he chose, might be renown'd,
He had but little doubt, she none;
And in a loftier phrase he talk'd
With her, upon their Wedding-Day,
(The eighth), while through the fields they walk'd,
Their children shouting by the way.¹

—*The Angel in the House*,
Coventry Patmore (1823-96)

The idea of understanding a 'text' rests largely on the fact of two certain principles: one, the reader's interpretation of the same as he/she perceives based on his/her corpus of experience converting into 'practical wisdom', and two, the text itself with its contextual prolegomena. Now, the present 'text', the title of which concerns the indication of the word 'abomination' itself, is a visual one having argumentatively one of the most turbulent and politically, socially, economically, sociologically vicissitudinal

Connecting Asia

*Understanding Foreign Relations, Organizations and
Contemporary Issues*

Edited By:
Debasish Nandy

Foreword by:
Professor Sharad K. Soni



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Functions and Role of NSG in the Nuclear Age: The Indian Perspective

Kalyanasis Bhattacharyya

The Domino Effect of 'Nuclear': Dilemma and Politics

दिविसूर्यसहस्रस्यभवेद्युगपदुत्थिता

यदिभाः सदृशीसास्याद्भासस्तस्यमहात्मनः ॥ १२॥

(divisūrya-sahasrasyabhavedyugapadutthitā

yadibhāhsadrīśhīsāsyādbhāstasyamahātmanah)

Introduction

At first, it was revealed in The Decision to Drop the Bomb, a documentary filmed for NBC in 1965 and later in Jon Else's documentary The Day After Trinity (1981) that Physicist Robert T. Oppenheimer, the Director of the Los Alamos Laboratory (University of California, Berkeley) of the Manhattan Project, very poetically chanted this sloka from the Gita (11th Chapter, Sloka 12). Oppenheimer was not Hindu but was known to have an interest in Sanskrit. Literally, the sloka means that if a thousand suns were to blaze forth together in the sky, they would not match the splendor of that great form. And according to the text of Mahabharata on the onset of the Kurukshetra the famous theophany happens as Sri Krishna, the friend of Arjuna, suddenly appears as Lord Vishnu as the supreme power in the universe. However, it was never explained by the scientist himself or by anybody else, as to why did he recite this verse; was it in pure satisfaction due to the academic and professional success involved in the explosions or was it a soliloquy insinuating at the grim, apocalyptic fate of the nuclear age which has just begun. By now it is no more a mystery that if the present Nuke arsenal is ever detonated human race will become completely extinct with many other things if not the whole world, and modern mathematical simulation can prove that in a laboratory. In a recent letter (May 24, 2018) before their historic meet at Singapore, the US President Donald Trump wrote to Kim Jong Un that he prays to God that America's nuclear capabilities should never be used. That was a hint at the

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The Reality of Text: A Study in the Idea of Representation of Meaning involving the Ambivalence of the Real and the Truth in Edward Bond's Play *Saved*

Saranya Mukherjee

The present age, bystander of all its splintered truth points to an empty cultural landscape: a scenario, very evident and reacted throughout, as hinted even in the late 18th and 19th century. The incredibly astonishing 20th century with the significant years 1900, 1913, 1922, 1939, 1956 and so on has gone through more than a few explorations in and outside the sphere of the Individual. Drama provides a space where the questions are raised to problematize the identity of the reality of a modern man. As per the idea of conceiving the politics of the text's representation goes, the Greek concept of 'Phronesis' or practical wisdom plays an intriguing part to the 'understanding' of that which is apparent. After that effervescent euphoria once died an inevitably unnatural death, they are not looked upon with exactly the same sort of enthusiasm, or eagerness as the works had evoked 'once upon a time'. The Aristotelian distinction of Sophia (wisdom) and Phronesis is integral to this very discussion of defining the true nature of real meaning (if there is any) from the pile of unaccommodating simulated equivocal reality(s) in a post global world of virtual nothingness. In Bond's world, Truth seems to be what Bond calls 'myth' in his *Lear*. Edward Bond's idea of the reality of a tiresome humanitarian world or humanity itself can be summed up in the following line: "Humanity's become a product and when humanity is a product, you get Auschwitz and you get Chair." The present discussion involves the play *Saved* and attempts to re-read the text and the representation of truth and reality in a superficial world where truth along with time with all the pre-contextual shakeups of reality has been swept.

The artist tries to show reason in experience and appearance – and lyric is the daily appearance, the commonplace dress, of reason. It shows us the rational. It makes the epic pattern

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Towards a New Paradigm, Called Animality: A Study of "Ferdinand", the Animated Movie

Saranya Mukhopadhyay

"I wish I could show you when you are lonely or in darkness the astonishing light of your own being." : Hafiz (1325-90 AD)¹

The notion of religion closely entangled with the idea of culture is prevalent since the advent of modernized existence of human civilization. Now, after the two big and numerous passed and ongoing great and cold wars, both the ideas evolved primarily changing their conception and nature, revolutionizing human thought. This paper concerns these deconstructed concepts and their problematized connection in a posthuman world and would try to connect the ideas through the citing of a visual text, an animation movie, namely, "Ferdinand".

According to the Oxford Dictionary one definition of the term posthuman goes like the following: "Designating or relating to art, music, etc., in which humanity or human concerns are regarded as peripheral or absent; abstract, impersonal, mechanistic, dispassionate."² Primarily and essentially relating to the dystopian works of science fiction clichés this epoch-making idea has gained weight in course of time as the humanist Enlightenment went through a crucial show-down in the face of such imminent factors as colonialism, xenophobic racism leading on to what Deleuz and Guattari would call micro-fascism alongside disengaging unethical and notoriously widespread political failings merging with murderous violence especially in the previous two centuries.

Multifarious constructive notions like Humanism, masculinism or positivism had run their courses while the acuity of the word barren or wasteland prevailed in a fast away civilization in human intellectual thought. When Ferdinand is surprised to see how his other friends are selfish, self-interested and vain, he does not give in, rather he tries to show his courage in his characteristic simple way. This makes him a dear foil to the titbits of so called civilized. The point of astonishment underlines the very fact of absurdity of a cruel world and the expendability of the same at once. Again one must not miss the allegorical system that runs through the whole movie showing the calculated definition or 'construct' of an imposed, partial and unkind animal (read humanitarian) hegemony. Even the notion of hegemonized humanism can be

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(A Literary Bunch)



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গ্রিকো-রোমান ইতিহাস চর্চা

সম্পাদনা : মঙ্গল কুমার নায়ক



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কলকাতা

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মূল্য: একশত পঞ্চাশ

সম্পর্কে আলোচনা এবং রোমান সভ্যতার ইতিহাস চর্চার প্রথম পর্ব। ইতিহাসবিদ লিভি থেকে শুরু করে খ্রিস্টীয় প্রথম শতাব্দীর পাবলিয়াস কলেলিয়ার ট্যাসিটাসের ইতিহাস লিখন পদ্ধতি ও দর্শন সম্পর্কে বিশ্লেষণ তুলে ধরা হয়েছে। আলোচনা করা হয়েছে গ্রিক ও রোমান ইতিহাস চর্চার পারস্পরিক ইতিহাস রচনা প্রণালী, ধারাসমূহ ও বৈশিষ্ট্য সম্পর্কেও। ছাত্র-ছাত্রীদের কথা মাথায় রেখে সমগ্র আলোচনাটি করা হয়েছে সহজ সরল ভাবে। ইংরেজি শব্দগুলিকে যথা সম্ভব বাংলায় প্রকাশ করা হয়েছে। কিছু নামের গ্রিক উচ্চারণের বাংলা অনুবাদে ক্ষেত্রে সমস্যার কারণে মূল শব্দটির উচ্চারণকে রাখা হয়েছে। প্রাচীন গ্রিসের ইতিহাস সম্পর্কে অনেকগুলি বাংলা বই থাকলেও 'গ্রিকো-রোমান ইতিহাস চর্চ' নিয়ে এই গ্রন্থ সেই হিসেবে অভিনবত্বের দাবিদার।

বর্তমান গ্রন্থটি কোনো মৌলিক গ্রন্থ নয়। সেই হিসেবে এটি বিশেষজ্ঞ গবেষকদের জন্য নয়। ছাত্র-ছাত্রী ও শিক্ষক-শিক্ষিকাদের পাঠ্যসহযোগী হিসেবে আমাদের এই প্রচেষ্টা। গ্রন্থটির মানোন্নয়নে যে কোনো ধরনের সমালোচনা ও পরামর্শকে যথাযোগ্য মর্যাদার সঙ্গে বিবেচনা করতে আমরা উৎসাহী রইলাম। গ্রন্থটি ছাত্র-ছাত্রীদের কাজে লাগলে আমাদের পরিশ্রম সার্থক হবে।

সম্পাদিত গ্রন্থটির প্রথম অধ্যায় লিখেছেন নাড়াজোল রাজ কলেজের সহকারী অধ্যাপক ড. মঙ্গল কুমার নায়ক; দ্বিতীয় অধ্যায় গবেষক সুব্রত দাস; তৃতীয় অধ্যায় গভর্নমেন্ট জেনারেল ডিগ্রি কলেজের (কেশিয়াড়ী) সহকারী অধ্যাপক ইন্দর মুখার্জী; চতুর্থ অধ্যায় গবেষক কৌশিক চক্রবর্তী ও সানিয়া চৌধুরী; পঞ্চম অধ্যায় সেবানারতী মহাবিদ্যালয়ের অধ্যাপক নিমাই ঘড়া ও ষষ্ঠ অধ্যায়টি লিখেছেন গবেষক সৌম্যদীপ খান্ডা— এদের সকলের প্রতি রইল আমার আন্তরিক অভিনন্দন ও শুভেচ্ছা।

পাঠ্যপুস্তকটি রচনার ক্ষেত্রে দুঃপ্রাপ্য বইয়ের সন্ধান ও সরবরাহ করে আমাদের কৃতজ্ঞতায় আবদ্ধ করেছেন 'পশ্চিমবঙ্গ আঞ্চলিক ইতিহাস ও লোক সংস্কৃতিচর্চাকেন্দ্রে'র মাননীয় সম্পাদক ময়ূখ দাস। বিশেষভাবে ঋণস্বীকার করছি বাঁকুড়া জেলা সারদামণি মহিলা কলেজের সহকারী অধ্যাপক ঋতুপর্ণ চক্রবর্তীর কাছে; একই সঙ্গে ধন্যবাদ জানাই গড়বেতা কলেজ কর্তৃপক্ষ, ইতিহাস বিভাগ ও গ্রন্থাগার বিভাগের কর্মীদের। গ্রন্থরচনার কাজে সহযোগিতার জন্য অদিতি মহাপাত্র ও নরজিৎ লায়কের প্রতি রইল আন্তরিক কৃতজ্ঞতা। গ্রন্থটি দ্রুত প্রকাশ করে ছাত্র-ছাত্রীদের কাছে পৌঁছে দেওয়ার গুরুদায়িত্ব নিয়েছেন সেতু প্রকাশনীর সম্মাননীয় কর্ণধার শ্রী সুব্রত দাস। তাঁকে আমাদের পক্ষ থেকে অশেষ কৃতজ্ঞতা ও ধন্যবাদ জানাই।

ড. মঙ্গল কুমার নায়ক
সম্পাদক

সূচিপত্র

প্রথম অধ্যায়— প্রাচীন গ্রিক ইতিহাস চর্চা

‘ইতিহাস’ প্রাথমিক ধারণা-ইতিহাসের সংজ্ঞা-ইতিহাস চর্চা প্রণালী-প্রাচীন গ্রিসের গদ্য ইতিহাস চর্চা-লোগোগ্রাফি বা গদ্য ইতিহাস চর্চার ধারণা-লোগোগ্রাফারদের উদ্ভবের প্রেক্ষাপট-প্রাচীন গ্রিসের উল্লেখযোগ্য লোগোগ্রাফারগণ-মিলেটাসের হেকাটিয়াস-হেকাটিয়াসের রচনা সমূহ-বিশ্বভ্রমণ-হিস্টোরিয়া-মানচিত্র বিদ্যা-লিডিয়ার জ্যাস্থাস-জ্যাস্থাসের রচনা সমূহ-লিডিয়াকা-ম্যাজিকা-এথেন্সের আইসোক্রেটস-মিলেটাসের ক্যাডমাস-লেসবসের হেলানিসিয়াস-হিগ্লিস এবং গ্রাসাস-চালসেদানের মেলোসাগোরাস-লোরসের ফেরসাইডেস-সিঞ্জিনের ডামাস্ক্টেস-আর্গোসের অকুসিলাওস-ল্যাম্পাসকাসের শ্যারন

দ্বিতীয় অধ্যায়— হেরোডোটাস ও আদি গ্রিক ইতিহাস চর্চা

হেরোডোটাস-প্রাক্কথন-সংক্ষিপ্ত জীবনী-বিষয় নির্বাচন-ইতিবৃত্ত বা হিস্টোরিয়া-ইতিবৃত্ত বা হিস্টোরিয়ার বিষয়বস্তু ও অধ্যায় বিভাজন-ইতিহাস লিখনের দৃষ্টিভঙ্গি-হেরোডোটাসের লিখন শৈলীতে হোমারের প্রভাব-বিয়েগান্ত নাটকের প্রভাব-হেরোডোটাসের ইতিহাস রচনা শৈলী-সীমাবদ্ধতা-হেরোডোটাস ভ্রমণকারী রোমান্স-হেরোডোটাসের দৃষ্টিতে গ্রিক-পারসিক সংঘাত-সভ্যতার সংঘাত-ঐতিহাসিক হিসেবে হেরোডোটাস

তৃতীয় অধ্যায়— থুকিডিডিস ও বিজ্ঞান সম্মত ইতিহাস চর্চা

থুকিডিডিস-সংক্ষিপ্ত জীবনী-পেলোপনেসীয় যুদ্ধের ইতিহাস ও থুকিডিডিস-যুদ্ধের কারণসমূহের ব্যাখ্যা-থুকিডিডিস কর্তৃক প্লেগের বিবরণ-নৈতিকতা সম্পর্কে থুকিডিডিস-এথেনীয় সাম্রাজ্যবাদ: থুকিডিডিসের ভাষ্য-থুকিডিডিসের চোখে তৎকালীন এথেন্সের সংস্কৃতি-এথেন্সের গণতন্ত্র সম্পর্কে থুকিডিডিসের বিশ্লেষণ-ডেমাগগ প্রসঙ্গে থুকিডিডিসের ভাষ্য-থুকিডিডিস ও হেরোডোটাসের ইতিহাস রচনা প্রণালী এবং ইতিহাস দর্শনের তুলনামূলক বিশ্লেষণ-ঐতিহাসিক হিসেবে থুকিডিডিসের মূল্যায়ন-থুকিডিডিসের ইতিহাস দর্শন সংক্রান্ত ইতিহাস চর্চা

চতুর্থ অধ্যায়— পরবর্তী গ্রিক ইতিহাস চর্চা

জেনোফোন, পলিবিয়াস ও ডায়োডোরাস-খ্রিস্টপূর্ব চতুর্থ শতাব্দীর গ্রিক-
ইতিহাসবিদগণ-জেনোফোন-সংক্ষিপ্ত জীবন-রচনাবলী-হেলেনিকা-
জেনোফোনের ইতিহাস রচনা পদ্ধতি সাংবাদিক সুন্দর বর্ণনা-ঐতিহাসিক-
হিসেবে জেনোফোনের মূল্যায়ন-পলিবিয়াস-সংক্ষিপ্ত জীবন-পলিবিয়াসের
রচনা-হিস্টোরিস-ইতিহাস সম্পর্কে পলিবিয়াসের দৃষ্টিভঙ্গি-মূল্যায়ন-
ঐতিহাসিক হিসেবে পলিবিয়াস-ডায়োডোরাস অব্ সিসিলি-সংক্ষিপ্ত জীবনী-
বিবলিওথিকা হিস্টোরিয়া-বিষয়বস্তু-ইতিহাস লিখন পদ্ধতি-ঐতিহাসিক
ডায়োডোরাসের বিশ্বজনীন ইতিহাস

পঞ্চম অধ্যায়— প্রাচীন রোমান ইতিহাস চর্চা

রোমের জন্ম-ভৌগোলিক অবস্থান-প্রাচীন রোমান সভ্যতার উদ্ভব ল্যাটিন ও
ইটালিয়ান-রোমান ইতিহাস রচনার প্রাথমিক উপাদান-দেশীয় উপাদান-বিভিন্ন
বর্ষপঞ্জী--ব্যক্তি বিশেষের বিবরণ-হেলেনীয় ইতিহাস চর্চা-পলিবিয়াস-গ্রিক ও
রোমান ইতিহাস চর্চার তুলনা-টাইটাস লিভির পূর্ববর্তী ইতিহাস-কুইন্টাস
ফ্যাবিয়াস পিক্টর-উপাদান অনুসন্ধান-ডি ইনরো পলি ফিসিও-থ্রেইসি
অ্যানালস-গ্রিক ভাষা ব্যবহারের কারণ-পিক্টরের ইতিহাস রচনাশৈলী-রোমান
ইতিহাসে পিক্টরের প্রভাব-মারকাস পারসিয়াস ক্যাটো-সংক্ষিপ্ত জীবনী-
ক্যাটোর রচনা-ডি এগ্রিকালটুরা-অরিজিনেস-অন্যান্য গ্রন্থ-ক্যাটোর রচনার
বৈশিষ্ট্য-নামবাচক বিশেষ্য পরিহার-রোমান ঐতিহ্যের প্রতি মোহগ্রস্ততা-
নৈতিকতার প্রকৃতি ও মূল্য-মূল্যায়ন-মারকাস টুল্লিয়াস সিসেরো-প্রাথমিক
জীবন-সিসেরোর রচনাসমূহ-ইতিহাস তত্ত্ব-সিসেরোর ইতিহাস ও কবিতার
সম্পর্ক-সিসেরো ও রোমান ইতিহাস চেতনা-সিসেরোর রাষ্ট্রনৈতিক ধারণা-
সিসেরোর অবদান

ষষ্ঠ অধ্যায়— নবধারায় রোমান ইতিহাস চর্চা

লিভি ও ট্যাসিটাস: প্রাক্ কথন-টাইটাস লিভি-প্রাথমিক জীবন-লিভির
রচনাবলী-আব উরবে কনডিটা-লিভি লিখিত রোমের ইতিহাসের বিষয়বস্তু-
লিভির ইতিহাস চর্চার বৈশিষ্ট্য-ধর্ম প্রসঙ্গে লিভি-আইন সম্পর্কে লিভি'র
মতামত-লিভি'র রচনার সীমাবদ্ধতা-লিভি'র মূল্যায়ন-পাবলিয়াস কনেলিয়াস
ট্যাসিটাস-সংক্ষিপ্ত জীবন-ট্যাসিটাসের রচনাবলী-জামানিয়া-লাইফ অব্
এগ্রিকোলা-লাইফ অব্ এগ্রিকোলার বিষয়বস্তু-দ্য অ্যানালস-অ্যানালসের
বিষয়বস্তু-হিস্টোরিয়া-ডায়লগ অন ওরেটেরস-ট্যাসিটাসের ইতিহাস চর্চার
বৈশিষ্ট্য-ট্যাসিটাসের ইতিহাস রচনার সীমাবদ্ধতা-মূল্যায়ন

উপসংহার

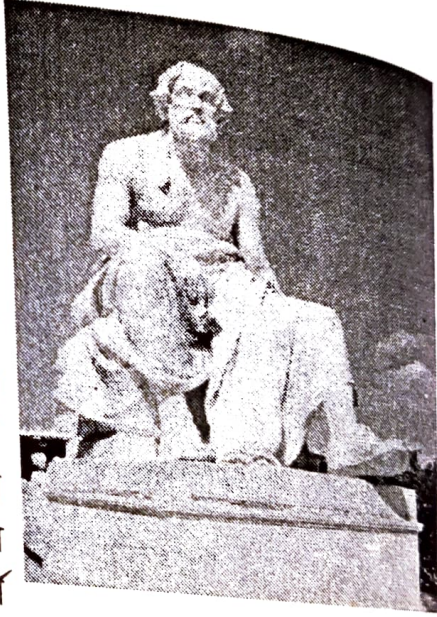
সহায়ক গ্রন্থপঞ্জি

তৃতীয় অধ্যায়

থুকিডিডিস ও বিজ্ঞানসম্মত ইতিহাস চর্চা

থুকিডিডিস

ইতিহাস রচনায় বিজ্ঞান সম্মত ধারার প্রবর্তক থুকিডিডিসকে ইতিহাসের জনক হেরোডোটাসের যোগ্য উত্তরসূরি বলা চলে। এথেন্সের এই চিন্তাবিদ পূর্বতন ইতিহাস রচনাশৈলীর বিবর্তন এবং ইতিহাসের বিষয়বস্তু ও যুক্তিবাদী ধারণা প্রতিষ্ঠার মধ্য দিয়ে ইতিহাস চিন্তার জগতে বৈপ্লবিক পরিবর্তন এনেছিলেন। তাঁর যুক্তিনিষ্ঠ ও তথ্যপূর্ণ ঐতিহাসিক ঘটনাবলীর ব্যাখ্যা তাঁকে ইতিহাস রচনায় বিজ্ঞানসম্মত চর্চার শিরোপা দিয়েছে। তাঁর সময়কালে রাজনৈতিকভাবে গুরুত্বপূর্ণ পেলোপনেসীয় যুদ্ধকে তিনি গবেষণার বিষয় হিসেবে নির্বাচন করেন। প্রায় ২৭ বছর ব্যাপী প্রসারিত এই যুদ্ধের প্রথম ২০ বছরের পুঙ্খানুপুঙ্খ বিবরণ থুকিডিডিসের গ্রন্থে পাওয়া যায়।



সংক্ষিপ্ত জীবনী

আনুমানিক খ্রিঃপূঃ ৪৭১-৪০৭ অব্দের মধ্যবর্তী কোনো সময়ে থুকিডিডিস গ্রিসের এথেন্সে জন্মগ্রহণ করেন। তাঁর পিতার নাম ছিল ওলোরাম (Olarum) এবং মাতা ছিলেন থ্রেস দেশীয় কন্যা। থুকিডিডিসের গ্রন্থ থেকে জানা যায় যে, তিনি থ্রেস অঞ্চলের বেশ কয়েকটি স্বর্ণখনির মালিক ছিলেন। যাইহোক, তিনি যে উচ্চ অভিজাত শ্রেণির সদস্য ছিলেন তার বহু সাক্ষ্য ইতিহাসবিদেরা দেখিয়েছেন।

বিশ্ব বাংলা নাটক



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গৌরাঙ্গ প্রেস, কানাই ধর লেন, কলকাতা ৭০০ ০১২ থেকে মুদ্রিত।

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‘স্বপ্ন নয়— শান্তি নয়—ভালবাসা নয়,
হৃদয়ের মাঝে এক বোধ জন্ম লয়।
আমি তারে পারি না এড়াতে,
সে আমার হাতে রাখে হাত;
সব কাজ তুচ্ছ হয়, — পণ্ড মনে হয়,
সব চিন্তা — প্রার্থনার সকল সময়
শূন্য মনে হয়,
শূন্য মনে হয়!’ (বোধ, জীবনানন্দ দাশ)

যে কোনো হৃদয়ে এমন বোধের জন্ম হওয়া সহজ সম্ভব নয়, বিচ্ছিন্ন দ্বীপে বসত করে এমন কোনো হৃদয়েই জন্ম নিতে পারে এই বোধ। আর কোনো বিশেষ সময় তার প্রেক্ষাপট রচনা করে। স্বাভাবিক ভাবেই ভাঙনের কাল সে মনোভূমির উদ্গাতা। কেননা অদ্ভুত আঁধার ঘেরা পৃথিবীই ক্লান্ত করতে পারে বিপন্ন বিস্ময় এ তাড়িত কোনো হৃদয়। উনিশ শতকের ‘বাবু’ কালচার নিমগ্ন জীবনে নিমচাঁদ হয়ত তেমনি একজন।

পলাশী যুদ্ধ শেষে তখন মোঘল আধিপত্য মুছে প্রভাব বিস্তার করতে শুরু করেছে ইংরেজ। উনিশ শতকের সে সময় ইতিহাস চিহ্নিত। আর্থ সামাজিক ক্ষেত্রে ইংরেজ প্রাধান্যে ইংরেজ তোষনের নগ্ন নির্লজ্জ প্রকাশ। আর যার ফলশ্রুতিতে নতুন এক শ্রেণি বাবুদের অভ্যুদয়। এই ‘বাবু’ দের অবস্থান বেশ কয়েকটি প্রজন্ম পরম্পরায়। প্রথমত বাবুরা বেনিয়ানগিরি, দেওয়ানি, মুৎসুদ্দি এসবে যথেষ্ট শ্রমের মূল্যেই বিত্তের অর্জন করেছিল। দ্বিতীয় প্রজন্ম তো জন্মসূত্রেই হল অর্থ সম্পদের অধিকারী। তাদের প্রয়োজনই হল না বিত্তের উৎপাদন কিংবা অর্জনের। শুধু বিলাস-ব্যভিচারের স্রোতে গা ভাসানো ছাড়া কাজ নেই কোনো। দু-চার পাতা ফার্সি আর ইংরাজি জানা এই বাবুর দলই মাতিয়ে রেখেছিল সেকালের কলকাতাকে। এরপর আসে নতুন আর একদল বাবু। যারা কিনা প্রকৃত অর্থেই ইংরাজি শিক্ষায় শিক্ষিত। হিন্দু কলেজের শিক্ষক ডিরোজিও শিষ্য ইয়ংবেঙ্গলের সভ্য এই বাবুরা সংস্কার ভাঙতে চাইল। বিদ্রোহ করল ধর্মের বিরুদ্ধে। স্বেচ্ছাচারিতার কোলাহলে মুখরিত তখন কলকাতা। উনিশ শতক জুড়ে থাকা এই বাবুদের পরিচয় প্রসঙ্গে শিবনাথ শাস্ত্রী তাঁর ‘রামতনু লাহিড়ী ও তৎকালীন বঙ্গসমাজ’ বইতে লেখেন—

‘এই সময় শহরের সম্পন্ন মধ্যবিত্ত ভদ্র গৃহস্থদিগের গৃহে বাবু নামে এক শ্রেণীর মানুষ দেখা গিয়েছিল। তাহারা পার্সী ও স্বল্প ইংরাজী শিক্ষার

Knowledge, Experience and Education Among Tribal People of Eastern India

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Sudip Bhui
Dr. Santosh Kumar Behera



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Lepcha Understanding of Disease and Disaster: An Anthropological Study of Indigenous Knowledge System

– Aritra Samajdar

Introduction

The world we inhabit is a product of our knowledge or our knowledge is the product of experience of living in this world, which is a matter of theoretical debate. Put differently, world is shaped by human knowledge or human knowledge is the product of living experience of human beings. In the following paragraphs we are dealing with indigenous knowledge which is less codified.

Exploring the ethnographic reality of Lepcha tribe of Darjeeling-Himalaya, would reveal the relation between knowledge and the world. Lepcha medical lore and folklore and their cultural heritage will lead us to conclusion. In this regard, it is interesting to look into Lepcha philosophy about disease causation, their philosophy of healing, some practical use of ethnomedicine and some folk stories on disaster and human responses to disasters (both natural and caused by human agent). It is pertinent to note that in Lepcha world disasters in both individual and social life come through negation of social conduct, misbehaviour, and disrespect to tradition and mistrust of heritage. In Lepcha world individual action is the sole cause for imbalances in both human and social health.

* Assistant Professor, Department of Anthropology, Government General Degree College, Keshiary, Kharagpur, Paschim Medinipur, West Bengal.

Knowledge, Experience and Education among Tribal People of Eastern India

About the Book:

Learning is a continuous process among the human being from their initiation of journey on this earth. Individual level learning come through the community based traditional phase to advancement of institutional system. Tribal people of our nation help us to grasping ideas about process of development through understanding their knowledge and experiences of traditional everyday life with the dynamics. Socio-cultural development has not any uniform rout of progress but with diverse way according to their life ways. Planned educational empowerment reflects differentiated result in achieving the status as well its efficacy. In present day prolonged and problem oriented research is required to achieve the equity in education for ushering the potential human resources.

We are making an endeavor to bring vast spread experiences of different thinkers and researchers on this burning topic at one platform in form of book entitled “Knowledge, Experience and Education among Tribal People of Eastern India”.

The present book is a collection of 22 enlightening and thought provoking articles in three broad areas such as (A) Traditional Educational Policies, Institutions and Processes among Tribal People (B) Learning, Disseminations and Extensions of Indigenous Knowledge (Tribal Knowledge) and (C) Modern Educational Policies, Institutions and Processes among Tribal People. This edited volume is intended to serve the purpose of preservation of information of dying institutions of tribal panorama through collection of articles from series of established and rising scholars. Provided some practical cases, discussions, opinions and suggestions to policy makers and implementing agencies to contribute in the queue of many valuable efforts. The uniqueness of this volume is to set an integrated and evolutionary writings in a single framework. Thus it is believed that articles included in the present volume can throw some new light in the field of Tribal education or studies which are vital for the very survival and progress of tribal education system.

About Editors:

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Sudip Bhui
Dr. Santosh Kumar Behera



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Sudip Bhui
Dr. Santosh Kumar Behera



MANGLAM

Optimal nutrition is critical to the attainment of healthy physical growth, human capital and sustainable development. Malnutrition is a major public health problem causes premature mortality and morbidities in many of the developing countries and contributes more than half of all global burdens. The coexistence in individual and/or population level of 'double burden of malnutrition' representing the opposite sides of the energy balance equation presents a unique challenge for public health policy and interventions. The present edited volume is the synthesis of nineteen well-postulated research manuscripts contributed by social scientists, eminent anthropologists and health professionals to acquaint the book readers on public health and nutritional issues in population. The volume features with an abundance of materials and wide-ranging analysis which is extremely stimulative, useful and certainly serves the interest of the public health and nutrition issues of the populations of social scientists, health professionals, anthropologist and many at the teaching, research and policy formulation with a concern about the community/population development.



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Chapter 11

DUAL BURDEN OF MALNUTRITION AMONG THE PRE-SCHOOL CHILDREN IN INDIA

*Papiya Roy, Md. Golam Hossain, Susmita Bharati,
Manoranjan Pal, Suparna Shome, Madhuparna Srivastava,
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BACKGROUND

The impaired capacities of human body mainly arise from less or disproportionate intake of nutrients like carbohydrates, protein, fat, vitamins and minerals (Sukhatme, 1965) and such a state is referred to as malnutrition. The double burden of malnutrition refers to the dual characteristics of nutrition that is under and over nutrition occurring simultaneously within a population (WHO, 2002; Mehta, 2008). Underweight and overweight/obese are both among the top ten leading risk factors of the global burden of disease (WHO, 2002). Under-nutrition is estimated to be the underlying cause of one-third of all deaths of children below the age of five years (Black et al., 2003, 2008, 2010). Inadequate nutrition, especially in the first three years of life, has been shown to have serious short and mid-term consequences on physical growth and health as well as on mental development (Pelletier



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Role of Sufis as Intellectual: Bengal from 13th to 16th Century AD

Inder Mukherjee

Spread of Sufism in Bengal was a significant incident in the history of the subcontinent in different aspects. After the Turkish conquest, the preaching of Islam gained momentum in Bengal. Sufis from North India came along with the Turkish ruler and settled in Bengal. According to the local myth some of them came before the Turkish conquest of Bengal. From the letter of notable Sufi Mir Syed Ashraf Jahangir Simnani, written to the Sultan of Jaunpur one can get the picture of Sufi influence on the then Bengal.¹

An inscription, dated 1221 C.E., found in the Birbhum District gave the information about the presence of a khankhah in the district at that time.² In the early period of Turkish rule in Bengal some Sufi saints settled in different region of the province, among them Baba Adam Sahid of Rampal, Shah Sultan Rumi of Netrokona, Shah Sultan Mahiswar of Bogura, Makhdum Shahdulla Sahid of Pabna, Makdum Shah Gajnavi of Mongolkot, are worthy to be mentioned. According to the local myths these Sufis came in Bengal before the Turkish conquest and preached Islam. But historical evidences proved that they actually came along with or after the Khalji invasion in Bengal and the Muslim rule across the state.³ Some among them were the warrior Sufis, who fought against the local Hereditary Chieftains and defeated them to spread the glory of Islam. Defeat of the local rulers like, Raja Bikramkeshari in the hands of Makdum Shah Gajnavi of Mongolkot had been projected as the victory of Islam against the non believers. Makdum Shah Gajnavi of Mongolkot had an issue with local chief Raja Bikramkeshari as he would not tolerate Muslims and he tried to kill the Sufis but failed. One day the ruler got letter from sultan of Delhi but neither he could

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