TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY

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[Established in 2006 and Accredited 'B' by NAAC in 2016]

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Criterion 3 - Research, Innovations and Extension

3.3.1 Number of research papers
published
per teacher in the Journals notified on
UGC CARE list
during the last five years

Research Papers Published in Research Journals Session 2021-2022

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY

Vill- Madian, Mallarpur, P.O.- Ganpur, Dist- Birbhum, Pin- 731216, WB

3.3.1 Number of research papers published per teacher in the Research Journals

Session- 2021-2022

SI No	Title of paper	Name of the author/s	Department of the teacher		Calendar		Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number			
				Name of journal	Year of publication	ISSN number	Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list	
1	Reason and Religion-Swami Vivekananda's View	Dr. Sk Nur Upsar	Philosophy	Dogo Rangsang Research Journal	2021	2347-7180	www.journal- dogorangsang.in	https://www.thlhmahay idvalay.ac.in/admin/tab file/NUR*&20UPSAR 2021_PUB*&201_NU R*&20UPSAR_2021_P UB*&201.pdf	UGC enlisted	
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3	Restaurants and Budget Hotels under the Raj: A Gastronomic History of Public Dining in Colonial Bengal	Suman Mukherjee	History	Khoai : A Collector on Literature and Culture	2021	2319-8389	https://www.thlh mahavidyalay.ac.i n/admin.tab_file.S LMAN**ac@MILE HERHET_2021_P LB**ac01*ac0HO OK**a20LINK_S LMAN**a20MILK HERHET_2021_P UB**a201*ac0HO OK**a20LINK.pdf	MILRILE 2021 PUB "a201 SUMAN" a20M	UGC enlisted	
4	মুঘল-পতুগীজ সম্পর্ক এবং ভারতে সামুদ্রিক বাণিজ্যের বিকাশ [Mughal-Portuguese relations and development of maritime trade in India]	Suman Mukherjee	History	EBONG MOHUA: UGC CARE List: Arts & Humanities	2021	XXXX-XXXX	https://www.thlla mahavidyalay.ac.i n/admin.tab_file/S UMAN*agoMtL HERJEE_2021_P UBA*a202*a20BO OK*a201 INK_S UMAN*a20MUK HERJEE_2021 UB*a202*a20BO OK*a201 INK_pdf	https://www.thllumahav.uks.day.ac.in/admin/tab file/SUMAN®620MU KHERILE 2021 PUB %202 SUMAN®620M UKHERIFE 2021 PU B®6202 pdf	UGC enlisted	



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6	ট্রপিক্যাল আবহাওয়া, পরিবেশ- বাদ্ধব প্রযুক্তি এবং ঔপনিবেশিক বাংলার ব্রিটিশ সমাজ ও সাংস্কৃতিক জীবন : একটি ঐতিহাসিক অনুসন্ধান [Tropical Climate, Eco-Friendly Technology and British Social and Cultural Life in Colonial Bengal: A Historical Inquiry]	Dr Suman Mukherjee	History	Khoai Journal	2021	2319-8389	https://www.thlh mahavidyalay.ac.i n/admin/tab_filez UMAN%20MUK HERJEE_2021_P UB%203%20BO OK%20LINK_S UMAN%20MUK HERJEE_2021_P UB%2037%20BO OK%20LINK.pdf	https://www.thlhmahav idyalav.ac.in/admin/tab file/SUMAN%a20MU KHERJUE 2021_PUB %203_SUMAN%a20M UKHERJUE 2021_PU B%203.pdf	UGC enlisted	
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Assistant Professor Dept. of Philosophy, THLH Mahavidyalay Mallarpur, Dist- Birbhum, West Bengal

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REASON AND RELIGION- SWAMI VIVEKANANDA'S VIEW

Dr Sk Nur Upsar Assistant Professor Dept. of Philosophy, THLH Mahavidyalay Mallarpur, Dist-Birbhum, West Bengal :: nur.tamannall@gmail.com

Abstract

Religion and Science represent a fight between faith and reason. According to Swami Vivekananda, the Vedas, Astronomy, and Philosophy are secondary. That which makes us realize the Brahman is the highest knowledge. Knowledge of the sciences cover only the of our lives. But religious knowledge brings to us eternal and infinite. Unfortunately, Religions have many times been looked down, by secular knowledge. There is a reason for this. Many times, religions have refused to be justified by the scientific aid. In consequence, we see fights between secular knowledge and religious knowledge all over the world. Religion claims infallible authority as its guide, refuse to listen the claim of the secular knowledge. Secular knowledge with its shining instrument of reason, wants to cut to pieces everything religion could bring forward. This fight has been and is still waged in every country. Religions have been again and again defeated and almost exterminated.

The present paper attempts to discuss whether religion can have a basis of rational. while discussing the problem of Swami Vivekananda, a great philosopher of contemporary India has been taken into consideration.

Key words: Religion, Reason, Science, knowledge, investigation, Existence, Generalization etc.

In the latter part of the 19th Century Indian Society produced a few leading personalities who reoriented the traditional Indian spiritualism to meet the demands of modern society. To put it otherwise, they wanted to infuse the spirit of rationality in their way of understanding society. For them, man can become truly conscious of his own self when he becomes conscious of the spirit of unity with society. Among them in spite of his short span of life, Swami Vivekananda champion the classical Vedantic concept of man in a unique way and this is reflected on his aspiration for the actualization of divinity in man. Vivekananda was able to mould a new form of Hinduism and present this to a global audience by drawing on his British-style college education, a grasp of classical Indian religious knowledge, and a strong spiritual impulse from the mystic Ramakrishna. The essay "Reason and Religion" is probably not among Swami Vivekananda's best-known pieces of writing, but it is highly instructive if we want to under- stand some of the key ideas and forces that were shaping religion at the very end of the nineteenth century.1

In his essay, Vivekananda asks, "Is religion to justify itself by the discoveries of reason through which every other science justifies itself? The same method of investigation which are apply to science and knowledge outside, to be applied to the science of religion? In my opinion this must be so, and I am also of the opinion that the sooner it is done the better. If a religion is destroyed by such investigations, it was then all the same useless, unworthy superstition; and the sooner it goes, the better. I am thoroughly convinced that its destruction would be the best thing they could happen. All that the dross will be taken off, no doubt, but the essential parts of religion will emerge triumphant out of this investigation."2

In Modern Times Physical Sciences are better equipped than formerly and religions have become less and less equipped. Believing certain things because an organised body of priests or one's whomever people want to believe, because it is written in certain books, which also consider as holly book and believe that these are infallible and certain. Thus people or groups that deviate from the majority in important ways, were either assimilated into the mainstream or marginated. The issue is not only the religious but also of social recognition. As Huntington has observed. "People use religious not only to advance their interest but also to definite their identity. We know who we are only when we know who we are not and often only when we know whom we are against."3

Now the question is a way out? To put in a more concrete form: is religion to justify itself by the discoveries itself? Are the same methods of

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'Paschim': A Popular Medical Tourism Destination in Colonial Bengal

Dr. Suman Mukherjee

Assistant Professor of History, Turku Hansda Lapsa Hemram Mahavidyalay

Abstract: During the colonial period Paschim of Santal Pargana was beautified by the elite Bengali people to save them from the hot and humid climatic condition of deltuic Bengal. Paschim emerged us the medicalized leisure resort under the colonial Government. During the colonial period, elite and affluent Bengali people used to go to the 'Paschim' to recover their health. The 'Paschim' consisted of Madhupur, Giridih, Deogarh, Karmatar and other places of Santal Pargana. The climatic condition of these places was very healthy. The major thrust of my paper is about why the elite Bengali people explored Paschim as a health sanitarium of Bengal? What did the 'Paschim' denote? Why did they travel to this part of our country? Who were the Bengali travelers who visited that region and set up their own resting houses? Why and how did Paschim emerge as a popular medical tourism destination in Colonial Bengal? Who were the key players in tourism, leisure and recreation in Paschim? This paper is all about finding answers to these questions.

Keywords: Paschim; Santal Pargana; Medical Tourism; Madhupur; Giridih; Deogarh; Karmatar; health sanitarium; climatic conditions; colonial Bengal

During the colonial era, the favorite travel destination of the elite and wealth. Bengalis was the Santal Parganas and the Chotanagpur areas. Madhupur, Giridih, Deoghar, Shimultala of Santal Parganas were the places where Bengalis went to recover health or recuperate from illness. Till 1912 these places were part of undivided Bengal. In 1912 Bihar and Orissa were separated from Bengal and emerged as new provinces. In 1936, Bihar and Orissa were given the status of separate states. Santal Parganas became part of Bihar. Since the settlements were on the western part of Bengal province they were popularly known as 'Paschim'. It was famous for its recovering health and also for its scenic beauty. Bengalis loved to go there during Puja vacation as well as in autumn, spring and winter. This vacation was known popularly as 'change' or 'hawa badal'. Santal Parganas was famous for its pleasant weather. This area was discovered by a Bengali gentleman Bijay Narayan Kundu. He happened to be in this place on the contract of paving rail tracks from Madhupur to Giridih in 1871. He liked the hilly Madhupur

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Suman Muchine

Restaurants and Budget Hotels under the Raj: A Gastronomic History of Public Dining in Colonial Bengal

Dr Suman Mukherjee

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Turku Hansda Lapsa Hemram Mahavidyalay
Mallarpur, Birbhum-731216, WB

From the colonial period, food is considered as the most important part of every generation. Food culture and recreation was linked with each other. New food courts were established in Calcutta to feed the white men. These restaurants became the centre for leisure and recreation of elites and the British. From the very beginning, Calcutta was appeared to be a modern urban city because of being the product of the British Empire. The roots of urban educated middle class and urban centered public culture were deeply earthed from colonial period. The European colonizers made public dining spaces in order to continue the tradition of England. These restaurants were forbidden for the Indians. It created a big difference between natives and colonizers in respect of racial and social biasness. From the eighteenth century, many high standard restaurants were emerged which were taken as sites of culinary culture. Many famous restaurants set up at this time were Peliti's Restaurant (1870), Firpo's Restaurant (1917), Flury's (1927) and so on. Chevalier Federica Peliti was an Italian confection manufacturer. He used to make cakes and chocolates. The colonizers wanted to borrow their foodculture, taste and the way they led their lives from England to India and Peliti became a successful convener in this regard. Italian merchant Angelo Firpo came to Calcutta from Genoa via London to start his business of restaurant. Firpo's restaurant was the happy hunting ground for the Maharaja's as well as elites of that time. The Swiss couple Mr. and Mrs. J Flury in 1927 founded a tea shop in Calcutta. The natives also followed the footsteps of the Europeans in food culture. In 1940's, a few Indians also started their own restaurants in Calcutta. Among these small eateries, 'Basanta Cabin' was well-known. The Hotels were founded during colonial period not only for providing food to the people but had prestige also. Their architecture, design and culture represented the European ways of life. These restaurants kept the colonizers apart from the colonized people. The restaurants of Calcutta or the colonial dining were markers of European dominance. The Indian natives were not allowed to enter these restaurants. These restaurants created a dichotomy between colonizers-colonized as well as rulers-ruled. It can be argued that the restaurants of colonial period were mainly of the European leisure space. The entrance for the Indians was closed at that time. But the situation was changed after 1940s. The Bengalese slowly got accustomed with restaurant culture in Calcutta. Still the lower class people were not allowed to these places. But generally the upper class and English educated new elites were the main customers of these restaurants. They happily adopted the European restaurant and food culture.

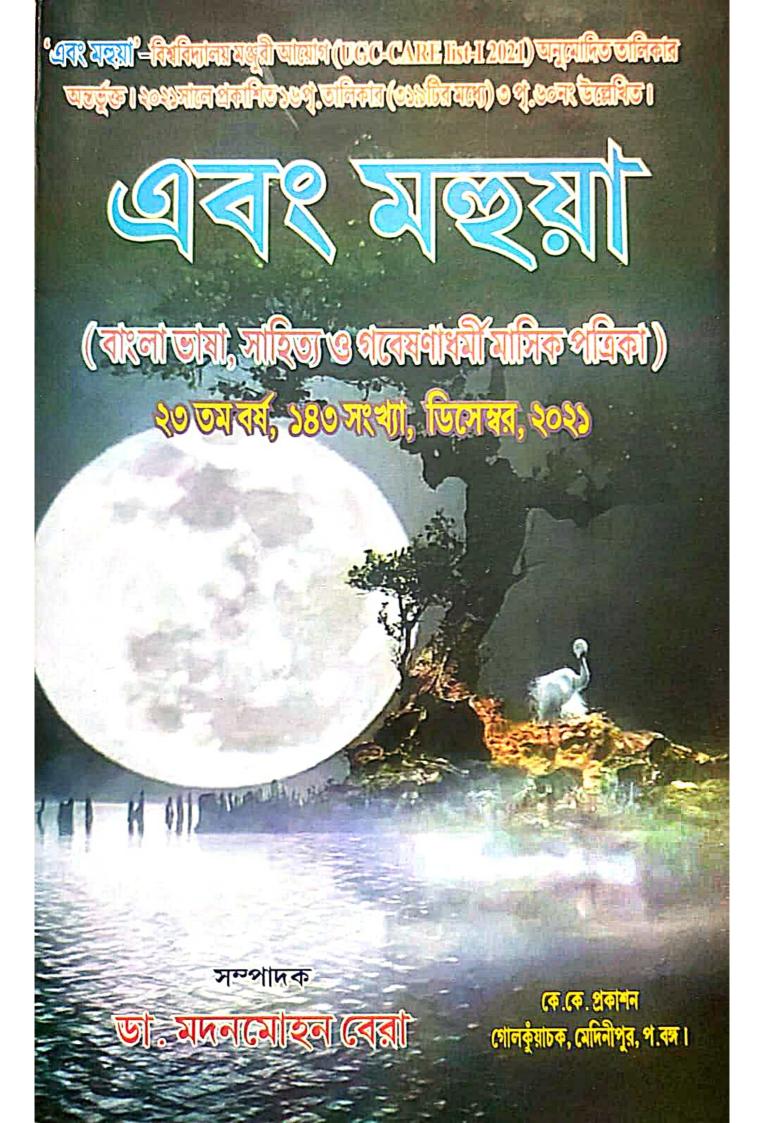
Exploring the Historiography of Restaurants and Budget Hotels in Indian Context:

Colonial Bengal and especially Calcutta witnessed the emergence of restaurants and budget hotels as the space of public dining and recreation. Several research works have been also published recently which mainly define the food culture in the light of popular culture. Well-known food historian Copeland Marks's book 'Varied Kitchens of India: Cuisines of the Anglo-Indians of Calcutta, Bengalis, Jews of Calcutta, Kashmiris, Parsis, and Tibetans of Darjeeling' (1991) helps us discover delightfully accessible food in unfamiliar kitchens. More than two hundred dishes gloriously proceent the range

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সুপ্রাচীন অতীত থেকেই ভারতের সঙ্গে ইউরোপের ঘনিষ্ঠ বাণিজ্যিক এবং সাংস্কৃতিক সম্পর্ক বিদ্যমান ছিল। ভারত ও রোমের মধ্যে প্রাক্-খ্রিস্টীয় যুগে দ্রপালার সামুদ্রিক বাণিজ্য ছিল এর প্রকিষ্ট প্রমাণ। ইউরোপের বাজারে ভারতের লবঙ্গ, এলাচ, দারুচিনি, লকা, গোলমরিচ, সুতি, রেশম বস্ত্র, দামি পাথর, হাতির দাঁতের জিনিসপত্র প্রভৃতির প্রবল চাহিদা ছিল। ৪৭৬ সালে রোমান সামাজ্যের পতনের ফলে ভারত-ইউরোপ বা<mark>ণিজ্যে ভাঁটা পড়েছিল। খ্রিস্টী</mark>য় সপ্তম শতকে মধ্য প্রাচ্যে আরবদের প্রভূত্ ক্টিড়ত হ**ও**য়ায় **আ**রব সাগরে ও লোহিত সাগরের পথে এই লাভজনক ব্যবসা সম্পূর্ণভাবে **আরব ও ইটালী**য় বণিকদের নিয়ন্ত্রণাধীন হয়ে পড়ে। আরব বণিকরা এইসব পণ্য সম্ভার ইটালির বিভিন্ন বন্দরে চড়া দামে বিক্রি করত। ইটালীয় বণিকরা আবার এইসব পণ্যাদি ইউরোপের অন্যান্য দেশে বিক্রি করে সমৃদ্ধশালী হয়ে ওঠে। ১৪৫৩ **সালে** অটোম্যান **তুর্কি**রা বাইজান্টাইন সামাজ্যের রাজধানী কনস্ট্যান্টিনোপল দখল করে এবং পরে পশ্চিম এশিয়া ও দক্ষিণ-পূর্ব ইউরোপে তাদের একাধিপত্য প্রতিষ্ঠিত হয়। এর ফলে ভারত-ইউরোপ বাণিজ্যপথ সম্পূর্ণভাবে তাদের করায়ন্ত হয়। তারা ভারতীয় শুন্দ্রের পণ্যের ওপর অতিরিক্ত শুন্ধ ধার্য করলে ইউরোপে এইসব পণ্যের মূল্য প্রচুর বৃদ্ধি পায়। ইউরোপীয় বণিকরা তো তখন সমুদ্রপথে সরাসরি ভারতে পৌছতে উদ্যোগী হয়। এই উদ্যোগ থেকেই শুরু হয় নতুন জ্ঞলপথ আবিষ্ণারের প্রয়স। মধ্যযুগের শেষভাগে নতুন নতুন জাহাজ নির্মাণ বিদ্যা, নাবিকের কম্পাস ও এস্টুল্যাবের আবিষ্কার ও নবজাগরণের ফলশ্রুতি হিসেবে অজানাকে জানার সীমাহীন <mark>আগ্রহ মানুষকে নতুন জলপথ আবিষ্কারে</mark> আগ্রহাম্বিত করে তোলে। নতুন জলপথ আবিষ্কারের প্রধান ভূমিকা গ্রহণ করে পর্তুগাল ও স্পেন। যাইহোক, ১৪৯৮ সালে পতুগিজ নাবিক ভাস্কো-ডা-গামা আফ্রিকার দক্ষিণ প্রান্তে অবস্থিত উত্তমাশা অন্তরীপ ^{প্রদক্ষিণ} করে ভারতের পশ্চিম উপকৃলে অবস্থিত কালিকট বন্দরে উপনীত হন। এর ^{ফলে} ইউরোপ থেকে ভারতে আসার সরাসরি জলপথের সন্ধান মেলে এবং ভারত-^{ইউ}রোপ সম্পর্কের ক্ষেত্রে এক যুগান্তকারী অধ্যায়ের সূচনা হয়। খ্রিস্টধর্ম প্রচার ব্যতীত পত্গিজরা দুটো উদ্দেশ্য নিয়ে এদেশে এসেছিল— ক) প্রাচ্য দেশগুলো থেকে ইউরোপে মশলাপাতি ক্রাদিশেকর এবং খ) আরবের মুসলিম বণিকদের হাত থেকে সামুদ্রিক

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Translated Version in English

Mughal-Portuguese relations and development of maritime trade in India

Dr. Suman Mukherjee

Europe has had close trade and cultural relations with India since ancient times. Long-distance sea trade between India and Rome during the pre-Christian era is a clear evidence of this. India's cloves, cardamom, jaggery, chillies, pepper, cotton, silk, precious stones, ivory etc. were in great demand in the European market. The fall of the Roman Empire in 476 resulted in a collapse in Indo-European trade. As Arab domination expanded in the Middle East in the seventh century AD, this lucrative trade along the Arabian and Red Sea routes came under the complete control of Arab and Italian merchants. Arab merchants sold these goods at high prices in various Italian ports. Italian merchants became wealthy by selling these goods to other European countries. In 1453, the Ottoman Turks captured Constantinople, the capital of the Byzantine Empire, and later established their monopoly over Western Asia and Southeast Europe. As a result, the India-Europe trade route was completely taken over by them. When they levied additional duties on the goods of the Indian Gupta, the price of those goods increased greatly in Europe. European merchants then ventured to reach India directly by sea. The attempt to discover new waterways started from this initiative. In the late Middle Ages, new shipbuilding techniques, the invention of the mariner's compass and the sternlabe, and the endless curiosity of the unknown as a result of the Renaissance made people eager to discover new waterways. Portugal and Spain took the lead in discovering new waterways. However, in 1498, the Portuguese navigator Vasco da Gama circumnavigated the Uttamasha barrier at the southern tip of Africa and reached the port of Calicut on the west coast of India. This led to the discovery of a direct water route from Europe to India and marked a turning point in Indo-European relations.

> Dr Suman Mukherjee Teacher-in-Charge Into Hense Lepto Hensen Hoberityaloy Mallarvur, Birbhum-731216



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We scrutinize and numerically investigate the behavior of magnetic nanofluid flow in stagnation region in the presence of ion-slip and Hall currents. Employing similarity technique, the governing equations modeling the boundary layer flow are switched into highly nonlinear ODEs. The resultant equations are then solved numerically by the method of spectral quasi-linearization. The effect of varying various pertinent parameters within the fluid flow are taken into account and the results are analyzed graphically. It may be noted that the velocity increases in the x- as well as z-directions with an increment in the Hall parameter. The concentration indicates a decreasing trend with increasing values of the Eckett number. The computed results also show that the volume fraction effects diminishes as the Schmidt number in the sales.

KEYWORDS: Hall and Ion-Slip, Variable Properties, Chemical Reaction.

1. INTRODUCTION

Nanofluids are considered as advanced heat transfer fluids which have immense applications in large variety of industrial processes. The potential benefits as well the challenges of using nanofluids with controlled particle size and morphology for various heat transfer applications have been investigated by many authors. In particular, applications of the MHD flow with Hall and ion-slip effects in nuclear power reactors, power generation, in several areas of astrophysics and geophysics have been established by several authors. 1-8 Recently several researchers (see Refs. [9-14]) have focused on numerical experiments and non-linear heat transfer approaches to scrutinize the application of nanofluids. Such as Ogunseye et al.15 have presented Eyring-Powell nanofluid model along with Ohmic heating on MHD flow with chemical reaction. When a viscous fluid is flowing, some of its kinetic energy is transformed to thermal energy in an irreversible process. This is termed as viscous dissipation. Pal

and Mondal¹⁶ examined how this kind of dissipation in a non-Newtonian fluid affects stagnation point flow with uniform suction. Ramzan¹⁷ analyzed the impact of 3D couple stress nanofluid model as well as MHD flow with viscous dissipation past a stretching surface with joule heating in vicinity of thermophoresis along with Brownian motion. The results indicate that temperature rises with the incremental value of Lewis number, conjugate heating parameter, thermophoresis as well as Brownian motion. Pal and Mandal¹⁸ and Raju et al.¹⁹ have numerically examined viscous dissipation as well as Ohmic heating with thermal radiation.

More investigations have been reported in the references²⁰⁻²⁴ which find practical applications in several technological innovations, industrial productions, thermal precipitators, nuclear reactor invulnerability, gas janitorial, corrosion of heat exchangers and so on. Thermophoresis phenomenon is encountered when unsteady particles move in response to the flow. Alam et al.²⁵ investigated hydromagnetic force with thermophoresis on transient convective partial slip flow embedded in porous rotating disk in presence of magnetic field. Simultaneously employed magnetic field as a slip parameter strongly restrains the flow. Alshare et al.²⁶ analyzed the influence of Brownian

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কুপিক্যাল আৰহাওয়া', পরিবেশ ৰান্ধৰ প্রযুক্তি এবং ঔপনিবেশিক বাংলার ব্রিটিশ সমাজ ও সাংস্কৃতিক জীৰনঃ একটি ঐতিহাসিক অনুসন্ধান সুমন মুখাজী

_{ভারতে} ব্রিটিশ ঔপনিবেশিক শক্তির কাছে ট্রপিক্যাশ বা ক্রাণ্টীয় আবহাওয়া একটি স্থাভাবিক ভৌগোলিক বিপদ ছিল। উনিশ শতকের **শেষ ভাগ পর্যন্ত ব্রিটিশদের মৃত্যু ও অসুস্থ**তার পিছনে গরমকেই মৃখ্য কারণ হিসাবে চিহ্নিত হুরা <mark>হরেছিল। তাই শ্বেডাল শাসকগণ চেটা</mark> চালিয়েছিলেন গরমের সাথে মোকাবিলা করতে বা তা খেকেই sপনিবেশের মধ্যে শীতশভর ম্বান খুঁজে নিতে। কলকাতা শহর গড়ে উঠে ওঠার পর যে সব ইংরেজ কর্মচারী ংশ্যাও **থেকে কলকাভান আস**ভ, ভারাও এই শহরের প্রচণ্ড গরমে কাবু হয়ে পড়ত। গরম কাল ছিল তাদের চাছে অভিমাপ। সাগর পাড়ের **মদেশের বছরভর উপভো**গ্য শীতল আবহাওয়া ছেড়ে সমতল ভারতের তথা বঙ্গ দশের **উক্ত ও আর্দ্র আবহাওয়াতে রিটিশদের সারা বছর ধ**রে ভারী ভারী কাচ্চে ব্যস্ত থাকতে হত। প্রখর গরম ও ঃয়ডিকর পরিবেশ থেকে নিস্তার পেতে ব্রিটিশ সাহেব,ও মেম সাহেবরা নানান পদ্ম অবলম্বন করেছিল। ধূলো-ালি, গরম **আবহাও**য়া ও রোদ থেকে বাঁচবার জন নৃতন প্রযুক্তির বাংলো নির্মাণ করেছিল ব্রিটিশরা। বাংলোর চার ালে ছাব্ল প্রদানকারী গাছ-পালা রোপণ করেছিল তারা। কলকাতার উচ্চ অভিজ্ঞাত সাহেবরা নদীর তীরে *বাগান* জি'বা **পার্ডেন হাউস' তৈরি করেছিল ওধুমাত্র গরম থেকে বাঁচতে। বাংলো গুলির দরজা এবং জানালা গুলিতে** দে ক্স' লাগানো হত। 'ভিন্তি' বা জল বাহকরা খস খস গুলিতে জল দিয়ে ভিজিয়ে ঠাণ্ডা করত। ক্রান্তীয় গরম ধ্বহাওয়ায় 'হাত পাৰা' এবং 'ঝোলানো পাৰা'র ব্যবহার খুবই জনপ্রিয় হয়ে ওঠে ব্রিটিশ সাহেব এবং মেম হেবদের **কাছে। উপনিবেশিক কলকাতার উচ্চ অভিজা**ত ব্রিটিশ সাহেবদের বাংলোতে এবং ডাইনিং রুমে *'হাত* াৰ' বোলানো থাকত। হাত পাখা ছাড়াও আর একটি প্রযুক্তির প্রচলন ছিল যা পরিচিত ছিল 'থারম্যানটিডোট' thermantidate) নামে। এটি ছিল এক প্রকার শীততাপ নিয়ন্ত্রক যন্ত্র। এছাড়া, সাহেবদের গৃহ ব্যবস্থাপনায় ধবদার' নামে একজন পরিচারক নিযুক্ত থাকত। তার কাজ ছিল ঠাণ্ডা জল, শরবত ও মদ পরিবেশন করা। ৮০০ ব্রিটাব্দে কলকাতায় বরকের ব্যবহার শুরু হয়। বরফের ব্যবহার ব্রিটিশ সমাজ জীবনে আশীর্বাদ রূপে দেখা রয় বালোর উষ্ণ ও আর্দ্র চরমভাবাপন্ন পরিবেশ এবং গরম থেকে বাঁচতে ব্রিটিশ সাহেব ও মেম সাহেবরা 'শোলা পি **ৰাবহার করত, খোলা মেলা ও ঢিলে ঢালা সৃতির জা**মা-কাপড় পরিধান করত এবং বিকেল বেলায় গঙ্গা বক্ষে ^{নিকা} বিহার, ঘোড়া গাড়ীতে চড়ে ঠাণ্ডা হাওয়া খাওয়ার চল ছিল। এই প্রবন্ধের মূল আলোচ্য বিষয় হল---^{পনিবেশিক বাংশার ক্রান্তীয় আবহাওয়া তথা গরম ব্রিটিশ সাহেব ও মেম সাহেবদের স্বাস্থ্য এবং জীবন ধারণের} পর কীক্রপ প্রভাব কেলেছিল ? ঐ চরমভাবাপন্ন আবহাওয়া থেকে বাঁচতে ব্রিটিশরা কী কী পদক্ষেপ গ্রহণ রিছিল ? ব্রিটিশরা কী কোন নৃতন পরিবেশ বান্ধব প্রযুক্তির সাহায্য নিয়েছিল ? গরম আবহাওয়া ব্রিটিশ শ্রেতাঙ্গ ^{শিক্দের} সমাজ ও সাংস্কৃতিক জীবনে কী কোন নৃতন দিগন্ত উন্মোচন করেছিল ? এই সকল প্রশ্নের উত্তর খোঁজার

শক্ষে আলোচ্য প্রব্রু

Translated Version in English

Tropical Weather', Eco-friendly Technology and British Society and Cultural Life in Colonial Bengal: A Historical Inquiry

Suman Mukherjee

Tropical weather was a dual geographical threat to the British colonial powers in India. Until the late 19th century, heat was identified as the main cause of death and illness in the British. So private rulers tried to deal with the heat or find cooler places within the penivesh, After the development of the city of Calcutta, all the English employees who came to Calcutta from England, they were also overcome by the intense heat of this city. The hot weather was a curse for them. Leaving the pleasant cool climate of the coastal homeland throughout the year in the hot and humid climate of plain India and Bengal, the British had to be busy with heavy work throughout the year. British Saheb and Mem Saheb adopted different methods to get relief from intense heat and harsh environment. The British built new technology bungalows to escape from the dust, hot weather and sun. They planted shade trees on four sides of the bungalow. The high elite sahibs of Calcutta built 'Bagan Ari' or 'Garden House' on the banks of the river just to escape the heat. The doors and windows of the bungalows were covered with S Khas. The 'Visti' or water carriers used to cool the khas khas by soaking them with water. The use of 'hand fans' and 'hanging fans' became very popular with British gentlemen and ladies in hot tropical weather. High-elite British gentlemen of colonial Calcutta used to hang out in their bungalows and dining rooms. Apart from the hand fan, another technique known as 'thermantidate' was in vogue. It was a type of air conditioner. Apart from this, an attendant called Gabdar was employed in the household management of Sahibs. His job was to serve cold water, sherbet and wine. In 1833 AD, the use of ice started in Calcutta. The use of ice is not seen as a blessing in British society. British sahibs and mem sahibs used 'shola p' to escape from the hot and humid extremes of Bengal and the heat, they wore open fairs and loose clothes and in the afternoon they used to ride Nika Bihar, horse carts on the Ganges chest to enjoy the cool air. The main topic of this article is--- How did the hot tropical climate of colonial Bengal affect the health and lifestyle of Britannia Saheb and Mem Saheb? What steps did the British take to survive the extreme weather? Did the British take the help of any new environmentally friendly technology? What new horizons did the hot weather open up in the social and cultural life of British white Sirs?

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Availability and Accessibility of Health Care Facilities— A Case Study of Maldah District, India

Md Hasan Askari and Krishnendu Gupta2

Abstract: The discussion about health care resources in addition to thatof accessibility and availability of health care facilities is one of the main concerns of medical geographers. The investigation of health care resource distribution is being done at various scales from the national to the neighbourhood. Present work has emphasised on the availability and accessibility of various health care facilities in different blocks of Maldahh, a district of West Bengal, India. This study has been divided into two parts mainly; in the first part an attempt has been made to portrait the periphery area of various health care facilities to find out the accessibility of health care services and the second part analyses the population pressure on different health care facilities and distributional gap between existing and expected number of facilities as per the national norms. The discussion supports that the Maldahh district is experiencing unequal and insufficient distribution of various health care facilities.

Key Words: health care facilities, periphery zone, public health centre, Inequalities, distributional gap

Introduction

The discussion about health care resources as well as accessibility and availability of health care facilities is one of the main concerns of medical geographers.

The health care includes personal health services, health education and information which helps prevent diseases, early diagnosis, treatment and rehabilitation (Rai & Nathawat 2013). The investigations of health care resource distribution are being done at various scales from the national to the neighbourhood. Many researchers made an attempt to understand the factors that shape health and health care experiences at different spatial scale (Roux and Mair 2010; Smyth 2008; Meade & Emch 2010). Many researchers think that health care distribution related study consists two types of analysis i.e., macro scale and micro scale. Macro scale analysis correlates location decisions with demographic, socio-economic and environmental factors. On the other hand, micro level analysis investigates the actual mechanisms behind resource distribution (Meade et. al. 1988).

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Teacher in charge Teacher in charge in charge THLH Mallar 131218, W.B. Madian, Pin- 731218, W.B. Birbhum, Pin"The first key principle in the primary health care strategy is equity or equitable distribution of health services" (Park, 2013). Many researches dealt with the discussion related to the distributional pattern of health care facilities such as, Spencer and Angeles (2007) used Kernel Density Estimation (KDE) within Geographical Information System to represent the spread of people and services across the Nicaragua. A buffer zone map and other maps by calculating population density with three different Kernel size have been drawn in the paper to show the accessibility of health care facilities in the said area. Paez et al. (2010) have made an attempt to find out the accessibility pattern by considering average trip length to the available facility in Montreal Island. An attempt has been made by Purahit (2010) to analyse the efficiency variation of the health care system in Karnataka. For this purpose, the author used the stochastic frontier technique. After the analysis the result shown that the efficiency of public health delivery system remains low, which shed negative impact on improving the life expectancy in the state. Delamater et al. (2012) mentioned in their paper that inequalities in geographical accessibility of health care facilities may be influenced by configuration of facilities, population distribution and transportation. For this study they have reviewed conceptual and practical differences between raster and network data models. The two-step floating catchment area (2 SFCA) method was used to measure the spatial accessibility of health care facilities in Victoria, Australia. In his paper McGrail (2012) presents the first comparison between continuous and zonal (step) decay functions of effectiveness of various facilities especially within both rural and metropolitan regions. Munoz and Kallestal (2012) supported that the role of primary health care is very essential to improve the quality of health because PHC act as the first level of contact, by which individuals, any family and any community can easily connect with the national health system. Health care system should follow the given characteristics (Park, 2013):

- i) Appropriateness: Health care system must be appropriate to the health problem of the human being.
- ii) Comprehensiveness: Optimum mix of preventive, curative and promotional services.
- iii) Adequacy: The service must be proportionate to the requirement.
- iv) Availability: There must not have any gap between existing and required health care facilities as per threshold population.
- v) Accessibility: Health care system must have geographic, economic and cultural accessibility.
- vi) Affordability: The cost to avail health care facilities must be within the economic ability of the people of any administrative unit.
- vii) Feasibility: Health system must have feasibility in term of efficiency of certain procedures, logistic support, manpower and material resources.

In brief, the intention of health care system should meet the needs of entire population and not merely selected groups and it should cover the full range of preventive, curative and rehabilitation

