



Estd. 1954

প্ৰাগজ্যোতিষ মহাবিদ্যালয়

PRAGJYOTISH COLLEGE

Accredited by NAAC since 2004 (3rd Cycle); Recognised under sections 2(f) and 12(B) of UGC
Affiliated to Gauhati University; ISO 9001:2015 Certified; SDG Accord Certified

DVV Clarification

CRITERIA III

METRIC 3.3.2

Comment 2

Cover page, content page and first page of publications.

Submitted to

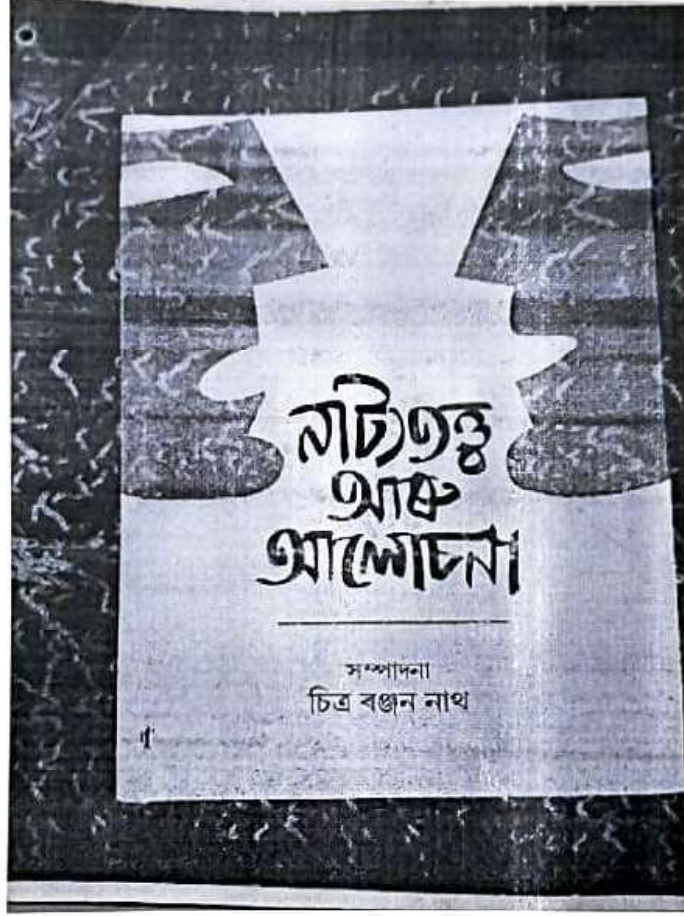


THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

2018-2019

Name of the Author/ Teacher- Dr Kalpana Talukdar

Cover Page



Kalpana
PRINCIPAL
PRAGJYOTISH COLLEGE
BHARALUMUKH
GUWAHATI - 9

Content Page-

বেজবৰুৱাৰ নাটক আৰু চৰ্চাম্পলক নিবেদন / ২৪১
ড° বীৰাজ পাটৰ
সংগীতনাথ বেজবৰুৱাৰ জয়মতী স্তম্ভী / ২৬৭
মিথু বৰা
অতুল চন্দ্ৰ হাজৰিকাৰ নবকাসুৰঃ এটি বিশ্লেষণ / ২৭৬
ডুইটি বৰা
অতুলচন্দ্ৰ হাজৰিকাৰ টিকেটজিৎনাটকৰ এক বিশ্লেষণাত্মক অধ্যয়ন / ২৮৫
জেনাৰী কলিতা
প্ৰসন্নলাল গৌহৰীৰ নীলাক্ষৰঃ এক পৰ্যালোচনা / ২৯১
ড° কল্পনা তালুকদাৰ
জ্যোতিপ্ৰসাদ আগৰৱালাৰ কাৰেঙৰ সিন্ধিৰী নাটকত সংঘাতঃ এটি আলোচনা / ৩০২
অৰ্চনা শইকীয়া
জ্যোতিপ্ৰসাদ আগৰৱালাৰ লজিতাঃ এক সামগ্ৰিক বিশ্লেষণ / ৩১৬
বীণা মেহি
সতীশ ভট্টাচাৰ্যৰ মহাৰাজাৰ লোকনাট্যৰ সমলঃ এটি আলোচনা / ৩২৩
ড° বীতা বৰ্মন
ফনী তালুকদাৰৰ মহাহাতীঃ এটি বিশ্লেষণ / ৩৩০
বেহেনা আখতাৰা
অৰুণ শৰ্মাৰ শ্ৰীনিবাৰণ ভট্টাচাৰ্যঃ এটি আলোচনা / ৩৪০
ইশামনি কলিতা ফুৰী
অৰুণ শৰ্মাৰ জাহাৰঃ এক বিশ্লেষণাত্মক অধ্যয়ন / ৩৫০
জুবুৰী শইকীয়া
কুৰুৰনেতীয়া মানুহঃ এক বিশ্লেষণাত্মক আলোচনা / ৩৬৬
তুত ডেকা
অৰুণ শৰ্মাৰ বুৰঞ্জীপত্ৰঃ এক অধ্যয়ন / ৩৭৯
ড° সুশান্ত জ্যোতি গোস্বামী
ড° ভবেন্দ্ৰ নাথ শইকীয়াৰ এজাক জোনাকীৰ জিলামিল / ৩৮৯
জেনা কুমাৰ কলিতা
নাট্যকাৰ মহেন্দ্ৰ বৰঠাকুৰৰ শৰাওৰি চাপৰিঃ এটি আলোচনা / ৪০০
কণী ডেকা

First Page of publications

প্ৰসন্নলাল চৌধুৰীৰ নীলাম্বৰঃ এক পৰ্যালোচনা

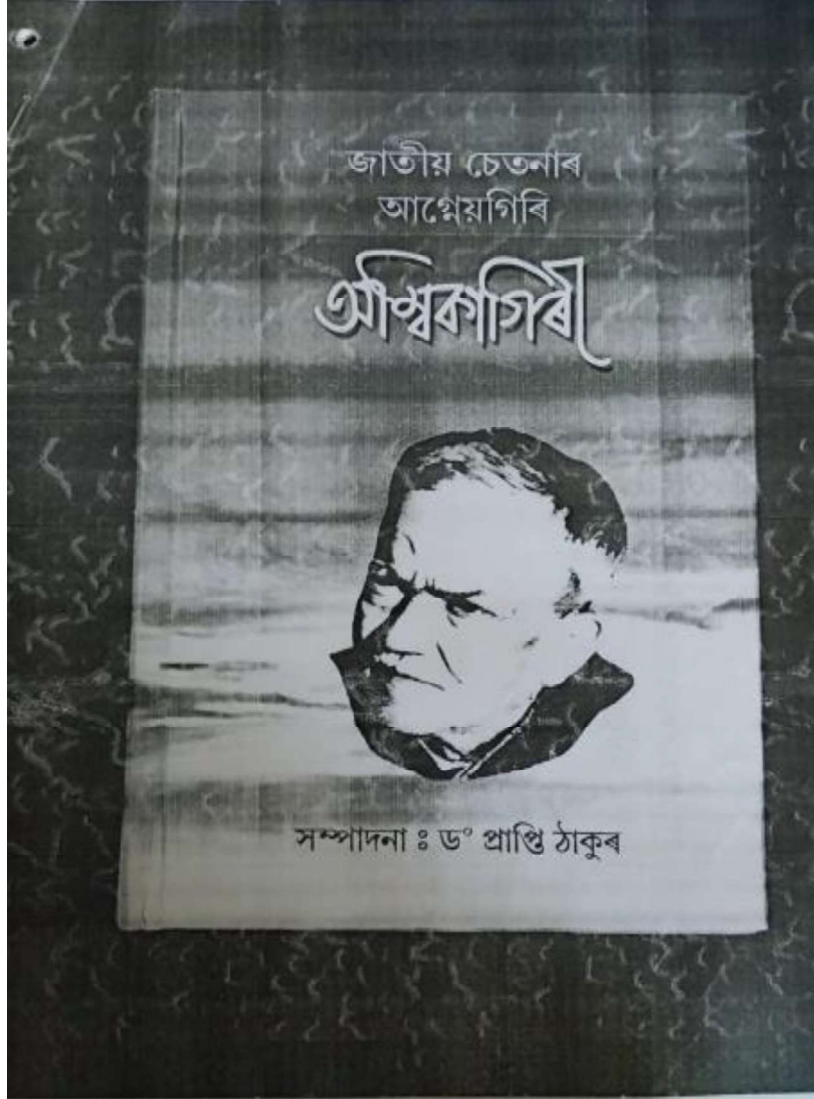
ড° কল্পনা তালুকদাৰ

অসমীয়া সাহিত্যত ঐতিহাসিক নাটকৰ সূচনা হয় বিশ শতিকাৰ প্ৰাকক্ষণত। নাট্য সাহিত্যৰ এই খাৰাটৰ শুভাৰম্ভ ঘটে পঞ্চদশ শতিকাৰ গোহাট্ৰিলকবৰৰ *জয়মতী* (১৯০০) নাটকৰ যোগেদি। অসমীয়া ঐতিহাসিক নাটক ৰচনাৰ যি আৰ্হি পঞ্চদশ শতিকাৰ গোহাট্ৰিলকবৰাই দেখুৱালে, সেই আৰ্হি অনুসৰণ কৰি লক্ষ্মীনাথ বেজবৰুৱা প্ৰমুখ্যে ভালেকেইজন নাট্যকাৰে অদেশানুৰাগ তথা জাতীয় প্ৰেমত উজ্জ্বল হৈ ঐতিহাসিক নাটক ৰচনা কৰি অসমীয়া ঐতিহাসিক নাট্য সাহিত্যৰ জঁৰাল চৰকাঁ কৰি তুলিলে। সমাজতে পাশ্চাত্য তথা বংগীয় নাট্য সাহিত্যৰ যোগেদি অসমীয়া নাট্যকাৰসকলে ঐতিহাসিক নাট্য ৰচনাৰ অনুপ্ৰেৰণা লাভ কৰিছিল। ইংৰাজী নাট্য সাহিত্যত মাৰল শ্বেক্সপিয়াৰ, বাৰ্ণাড শ্ব, টি. এছ. এলিয়ট, জন ড্ৰিঙ্কওৱাটৰ; ফ্ৰান্সী নাট্যকাৰ ৰোমা ৰোলা আৰু আমেৰিকাৰ নাট্যকাৰ মেগ্ৰবেল এণ্ডাৰছন আদিয়ে অদেশপ্ৰীতিৰ মনোভাৱে ঐতিহাসিক নাটক সৃষ্টি কৰি এক বলিষ্ঠ বুনিয়াদ নিৰ্মিত কৰি থৈ গৈছে। অন্যহাতে, বংগীয় নাট্য সাহিত্যত গিৰীশচন্দ্ৰ ঘোষ আৰু বিজয়লাল ৰায়চন্দ্ৰ ঐতিহাসিক নাটকৰ ক্ষেত্ৰখন সুসমৃদ্ধ কৰিছে। *জাতীয় জাগৰণৰ প্ৰভাৱ, পুৰণি বুৰঞ্জীৰ পুনৰ্জন্ম আৰু অতীত গৌৰৱৰ প্ৰতি বাঢ়ি অহা শ্ৰদ্ধাশীল মনোভাৱে অসমতো বুৰঞ্জীমূলক নাট্যৰ উদ্ভৱত সহায়তা কৰে!* অসমীয়া নাট্য সাহিত্যতো অদেশপ্ৰেমৰ চেতনাকে বিভিন্নজনে অতীত অসমৰ

*সহকাৰী অধ্যাপক, অসমীয়া বিভাগ, প্ৰাগজ্যোতিষ মহাবিদ্যালয়।

Name of the Author/ Teacher- Dr Kalpana Talukdar

Cover Page-



Content Page

সূচীপত্ৰ

- | | | |
|---|-------------------------|-----|
| <input type="checkbox"/> ভাৰত ৰাষ্ট্ৰ আৰু জাতীয় ভাৱনা :
অম্বিকাগিৰী আৰু তেওঁৰ সমকালৰ সাহিত্য | - ড° অনুৰাধা শৰ্মা | ২৫ |
| <input type="checkbox"/> অম্বিকাগিৰী : যাক বুজিবলৈ আমি চেষ্টা নকৰিলোঁ | - ময়ূৰ বৰা | ৩৪ |
| <input type="checkbox"/> মই অসমকেশৰীয়ে কৈছোঁ— অসম অসমীয়াৰ | - দীনেশ গগৈ | ৪৬ |
| <input type="checkbox"/> জাতীয় জীৱনৰ সন্ধিক্ষণত
অম্বিকাগিৰী ৰায়চৌধুৰীৰ প্ৰসংগ | - ড° নন্দ সিং বৰকলা | ৫৩ |
| <input type="checkbox"/> অম্বিকাগিৰী ৰায়চৌধুৰীৰ গদ্য
(মোৰ জীৱন-খুমুহাৰ এছাটিৰ বিশেষ উল্লেখৰে) | - অমৰ শইকীয়া | ৬২ |
| <input type="checkbox"/> অম্বিকাগিৰী ৰায়চৌধুৰীৰ ৰচনাত জাতীয়তাবোধ | - ড° ধনশ্ৰী শৰ্মা | ৯৯ |
| <input type="checkbox"/> অম্বিকাগিৰী ৰায়চৌধুৰীৰ তুমি কাব্যৰ
ৰহস্যবাদৰ এটি আলোচনা | - বীণা কলিতা | ১১৪ |
| <input checked="" type="checkbox"/> অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীত : এক চমু অবলোকন | - ড° কল্পনা তালুকদাৰ | ১২৮ |
| <input type="checkbox"/> অম্বিকাগিৰীৰ নাট্যচৰ্চা | - সপোনজ্যোতি ঠাকুৰ | ১৪৬ |
| <input type="checkbox"/> অম্বিকাগিৰী ৰায়চৌধুৰীৰ ভাষা-চেতনা | - ড° দীপামণি হালৈ মহন্ত | ১৬২ |
| <input type="checkbox"/> অৰুণা প্ৰেছ | - সঞ্জীৱ পল ডেকা | ১৭২ |

অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীত : এক চমু
অবলোকন

ড° কল্পনা তালুকদাৰ

অসমীয়া গীতি-সাহিত্যৰ এক ঐতিহ্যমণ্ডিত ইতিহাস আছে। অসমীয়া গীতি-সাহিত্যই মৌখিক পৰম্পৰাৰ মাজেৰে আহি চৰ্যাপদৰ বচনাৰ সময়ত লিখিত পৰম্পৰাৰ অন্তৰ্গত হয়। অসমীয়া গীতি-সাহিত্যই কালৰ সৈতত আমেৰিকান বেপ্তিষ্ট মিছনেৰীসকলে প্ৰকাশ কৰা 'অৰুনোদই' আলোচনীৰ পাতত আধুনিক সাজ পৰিধান কৰি 'জোনাকী'ৰ মাজেৰে প্ৰবাহিত হোৱা পশ্চিমৰ বোমাণ্টিক ভাৱনাৰ পৰশত এক নতুন মাত্ৰা লাভ কৰিলে। অসমীয়া গীতি-সাহিত্যৰ আধুনিক যুগটোৰ গীতিকাৰসকলে গীতৰ বিষয়বস্তু হিচাপে প্ৰধানভাৱে ব্যক্তি-নিষ্ঠ ভাৱনাকহে গুৰুত্ব দিছিল। এই সময়ছোৱাত নতুন সাংগীতিক ধাৰাৰো সূচনা হয়।

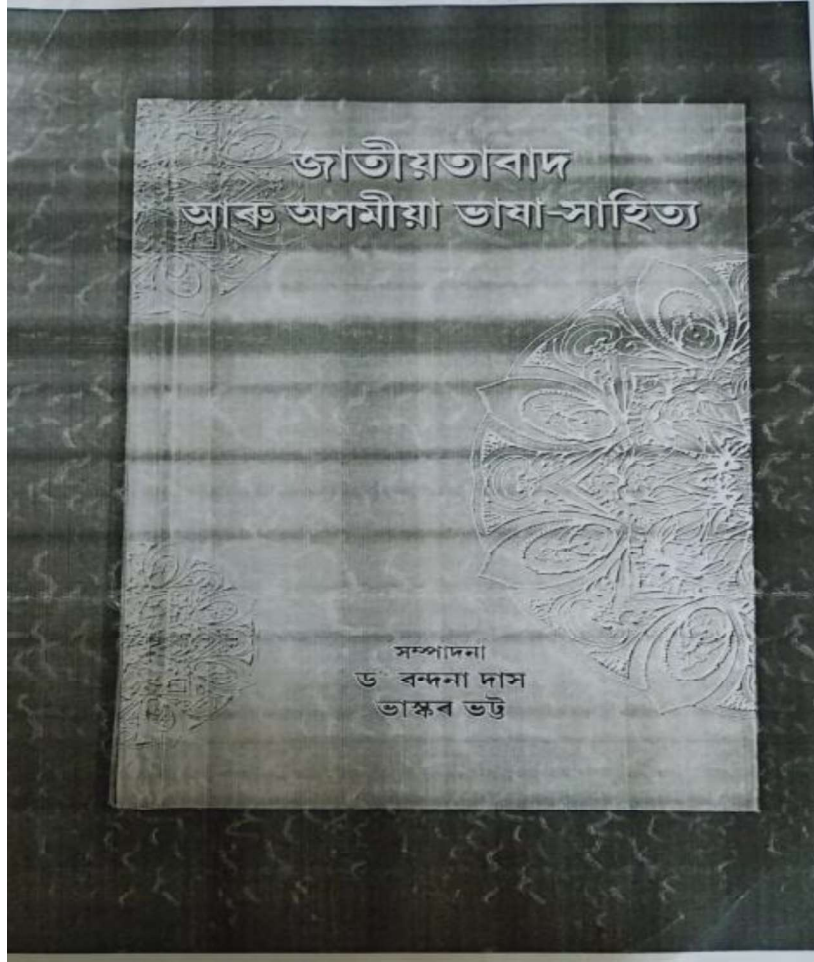
অসমৰ যাউতি-যুগীয়া লোক-সংগীত, মহাপুৰুষদ্বয়ৰ দ্বাৰা প্ৰবৰ্ত্তিত বৈষ্ণৱ সংগীত পদ্ধতিক আধাৰ হিচাপে লৈ অসমীয়া আধুনিক গীতি-সাহিত্যক এক বিশেষ মাত্ৰা প্ৰদান কৰে সত্যনাথ বৰা, লক্ষ্মীনাথ বেজবৰুৱা, লক্ষ্মীৰাম বৰুৱা, আনন্দচন্দ্ৰ আগৰৱালা, কীৰ্ত্তিনাথ শৰ্মা বৰদলৈ, অম্বিকাগিৰী ৰায়চৌধুৰী আদি বৰেণ্য কবি-গীতিকাৰসকলে।

একাধাৰে গীতিকাৰ, সুৰকাৰ, গায়ক, নাট্যকাৰ, সাংবাদিকৰূপে পৰিচিত অম্বিকাগিৰী ৰায়চৌধুৰী (১৮৮৫-১৯৬৭) উত্তৰ জোনাকী যুগৰ এগৰাকী উল্লেখযোগ্য কবি। অসমীয়া গীতি-সাহিত্যত অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীতৰ মূল্য অপৰিসীম।

অসমৰ জাতীয় জীৱনৰ আধ্যাত্মিক আৰু সাংস্কৃতিক

Name of the Author/ Teacher- Dr Kalpana Talukdar

Cover Page-



Content Page-

সূচী পত্ৰ	
অসমত জাতীয়তাবাদী চেতনাৰ অকুৰক আনন্দৰাম ঢেকিয়াল ফুকন : এটি আলোচনা	১১
• গীতাজ্জলি দাস	
লক্ষ্মীনাথ বেজবৰুৱাৰ চুটি গল্পত জাতীয়তাবাদ : এটি বিশ্লেষণ	২১
• জুৰি দাস	
জ্যোতিপ্ৰসাদ আগৰৱালাৰ গীত আৰু কবিতাত জাতীয়তাবাদ : এটি অধ্যয়ন	২৯
• ড° ৰূপসেখা ঠাকুৰীয়া বণিয়া	
'পিয়লি ফুকন' নাটকত প্ৰকাশিত জাতীয়তাবাদ : এটি বিশ্লেষণাত্মক আলোচনা	৪১
• ড° দীক্ষিতা দেৱী	
অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীতত স্বদেশ প্ৰেম : এক চমু অৱলোকন	৫১
• ড° ৰঞ্জনা তালুকদাৰ	
জাতীয়তাবাদ আৰু ৰূপেন হাজৰিকা	৬১
• ড° সত্যজিৎ দাস	
অম্বিকাগিৰী ৰায়চৌধুৰীৰ গদ্য ৰচনাত স্বজাতিৰ প্ৰীতি আৰু জাতীয় চেতনা : এটি আলোচনা	৬৯
• ড° নিতু চহৰীয়া	
বীৰেন্দ্ৰ কুমাৰ ভট্টাচাৰ্যৰ গল্পত জাতীয় চেতনাৰ প্ৰকাশ	৮১
• ড° হীৰা মামা দাস	
অম্বিকাগিৰী ৰায়চৌধুৰীৰ কবিতাত জাতীয় চেতনা : এক বিশ্লেষণাত্মক অধ্যয়ন (বেদনাৰ উচ্চাৰ বিশেষ উল্লিখনসহ)	৯১
• যুথিকা তালুকদাৰ	

First Page of the publications-

অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীতত স্বদেশপ্ৰেম : এক চমু অবলোকন

ড° কল্পনা তালুকদাৰ

০.১. প্ৰস্তাৱনা

অসমীয়া গীতি-সাহিত্যৰ এক ঐতিহ্যমণ্ডিত ইতিহাস আছে। অসমীয়া গীতি-সাহিত্যই মৌখিক পৰম্পৰাৰ মাজেৰে আহি চৰ্যাপদৰ ৰচনাৰ সময়ত লিখিত পৰম্পৰাৰ অন্তৰ্গত হয়। অসমীয়া গীতি-সাহিত্যই কালৰ সৈতত আমেৰিকান বেণ্ডিষ্ট মিছনেৰীসকলে প্ৰকাশ কৰা 'অৰুণোদই' আলোচনীৰ পাতত আধুনিক সাজ পৰিধান কৰি 'জোনাকী'ৰ মাজেৰে প্ৰবাহিত হোৱা পশ্চিমৰ ৰোমাণ্টিক ভাবনাৰ পৰশত এক নতুন মাত্ৰা লাভ কৰিলে। অসমীয়া গীতি-সাহিত্যৰ আধুনিক যুগটোৰ গীতিকাৰসকলে গীতৰ বিষয়বস্তু হিচাপে প্ৰধানভাবে ব্যক্তিগত ভাবনাকহে গুৰুত্ব দিছিল। এই সময়ছোৱাত নতুন সাংগীতিক ধাৰাৰো সূচনা হয়।

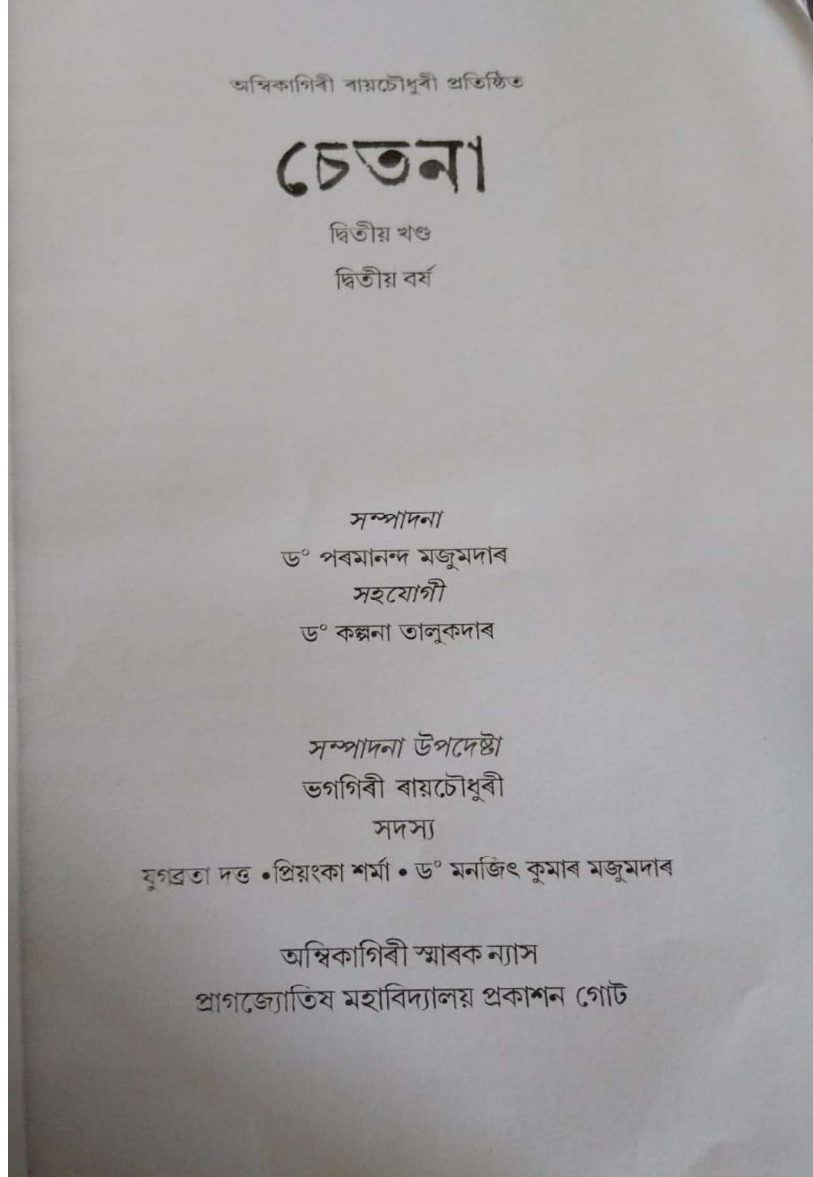
অসমৰ যাউতি-যুগীয়া লোক-সংগীত, মহাপুৰুষঘৰৰ দ্বাৰা প্ৰবৰ্তিত বৈষ্ণৱ সংগীত পদ্ধতিক আধাৰ হিচাপে লৈ অসমীয়া আধুনিক গীতি-সাহিত্যক এক বিশেষ মাত্ৰা প্ৰদান কৰে সতানাপ বৰা, লক্ষ্মীনাথ বেজবৰুৱা, লক্ষ্মীৰাম বৰুৱা, অননন্দচন্দ্ৰ আগৰৱালা, কীৰ্তিনাথ শৰ্মা বৰদলৈ, অম্বিকাগিৰী ৰায়চৌধুৰী আদি বৰেণ্য কবি-গীতিকাৰসকলে।

একাধাৰে গীতিকাৰ, সুৰকাৰ, গায়ক, নাট্যকাৰ, সাংবাদিকৰূপে পৰিচিত অম্বিকাগিৰী ৰায়চৌধুৰী (১৮৮৫-১৯৬৭) উত্তৰ জোনাকী যুগৰ এগৰাকী উপ্ৰেথযোগ্য কবি। অসমীয়া গীতি-সাহিত্যত অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীতৰ মূলা অপৰিসীম।

অসমৰ জাতীয় জীৱনৰ সাংস্কৃতিক ঐতিহ্য আৰু পৰম্পৰাৰে সমৃদ্ধ

Name of the Author/ Teacher- Dr Kalpana Talukdar

Cover Page-



Chetana Vol-II, (Originally edited by Ambikagiri Rai Choudhury)
Compiled and edited by Dr. Paramananda Majumdar and published by
Dr. Manoj Kumar Mahanta, Principal, Pragjyotish College,
Guwahati-781009. Price : Rs. 600.00

প্ৰাগজ্যোতিষ মহাবিদ্যালয় প্ৰকাশন গোট

ড° পৰমানন্দ ৰাজবংশী (সংকলিত), ড° পৰমানন্দ মজুমদাৰ (যুটীয়া আস্থায়ক), অতনু
কুমাৰ চৌধুৰী (সদস্য), ত্ৰিযংকা শৰ্মা (যুটীয়া আস্থায়ক), ড° মনজিৎ কুমাৰ মজুমদাৰ
(সদস্য), উদ্বিপ্ৰজ্যোতি চৌধুৰী (সদস্য)

প্ৰথম প্ৰকাশ : জুলাই, ২০১৮

পৰিবেশক

বান্ধৱ, যশোবন্ত পথ

পানবজাৰ, গুৱাহাটী-৭৮১০০১

দূৰভাষ : 09859646533

ই-মেইল : bandhavpublication@gmail.com

ISBN : 978-81-922120-8-1

প্ৰচ্ছদ : মনজিৎ ৰাজখোৰা

মূল্য : ৬০০.০০ টকা

মুদ্ৰণ

শিৱম প্ৰিণ্টাৰ্চ

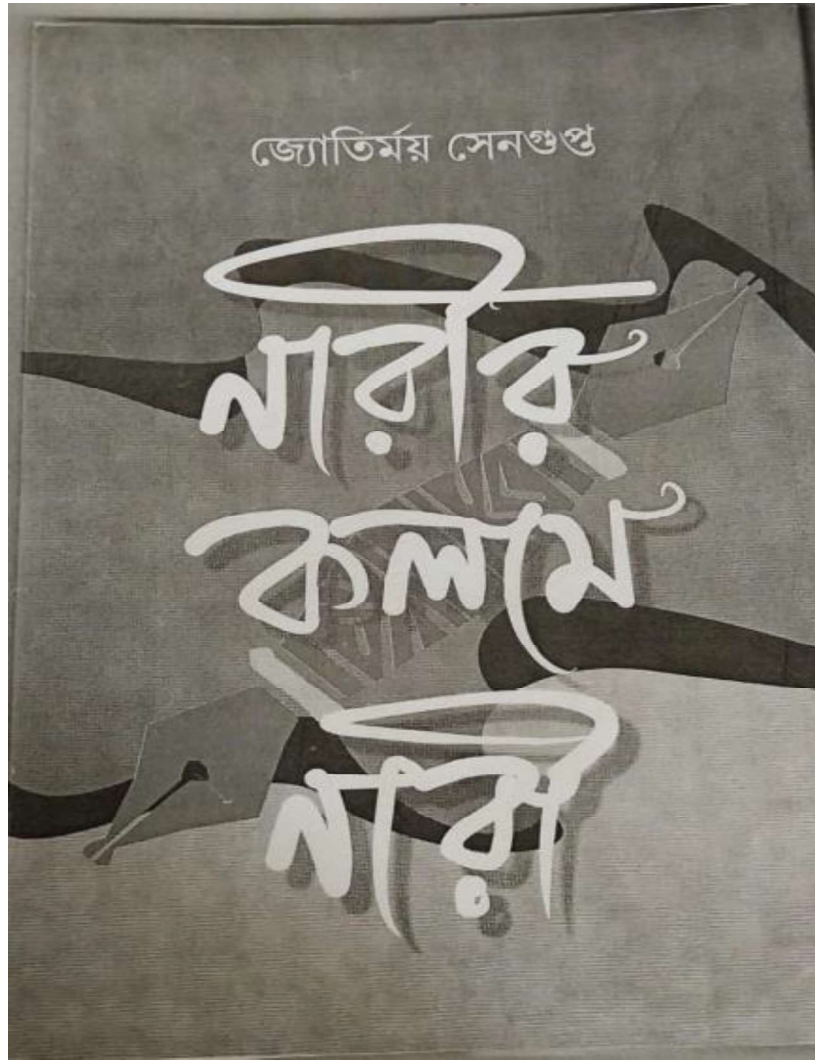
পানীখাইতি, গুৱাহাটী-৭৮১১৫০

ই-মেইল : Sivam printersassam@gmail.com

bikashdev1@yahoo.in

Name of the Author/ Teacher- Dr Jyotirmoy Sengupta

Cover Page-



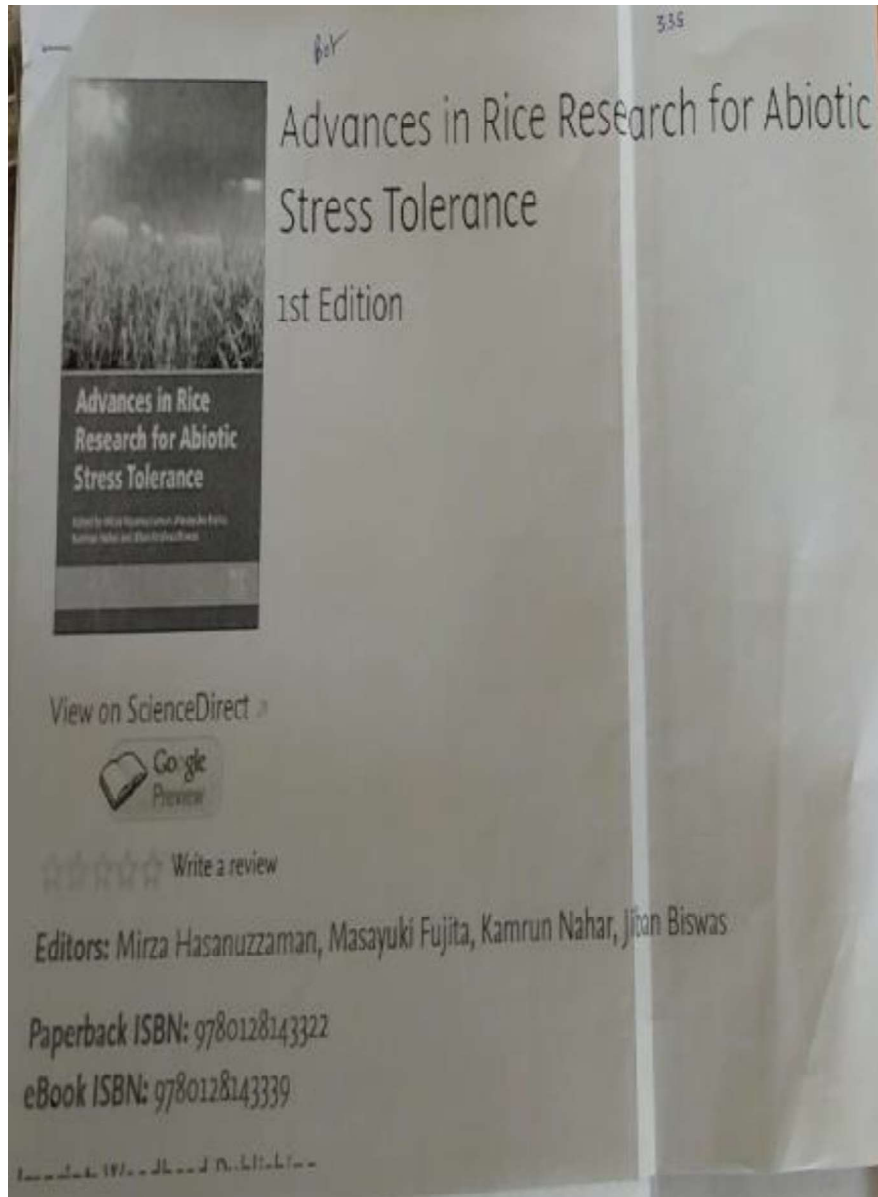
Content Page-

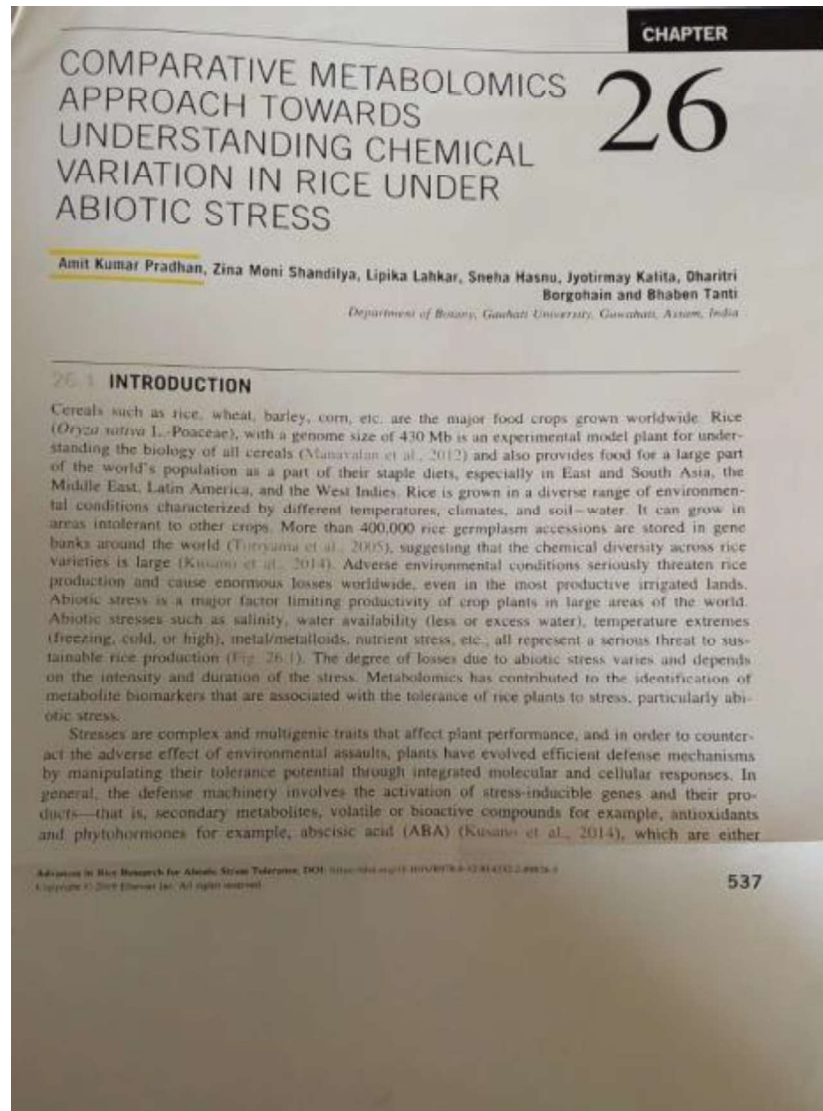
সূচিপত্র

অসম ও পশ্চিমবঙ্গের মহিলা ঔপন্যাসিকদের রচনাধারার একটি সংক্ষিপ্ত পরিচয়	১৩
নারীমুক্তি আন্দোলন : নব্বই দশকে অসম ও পশ্চিমবঙ্গের চলচিত্র	১৮
নব্বই দশকের অসমিয়া ও বাংলা উপন্যাসের বিধৃত সমাজচিত্র	৩৪
নির্মাণের আড়ালে নারীর সামাজিক ও পারিবারিক স্থিতি	৫২
নারীর রাজনৈতিক দৃষ্টিভঙ্গি ও অর্থনৈতিক অবস্থান	৬৬
সমাজে নারীসত্তার তাৎপর্য ও প্রতিষ্ঠা	৭৮
শেষ কথা	৯১
নির্বাচিত গ্রন্থপঞ্জি	৯৩

Name of the Author/ Teacher- Amit Kumar Pradhan

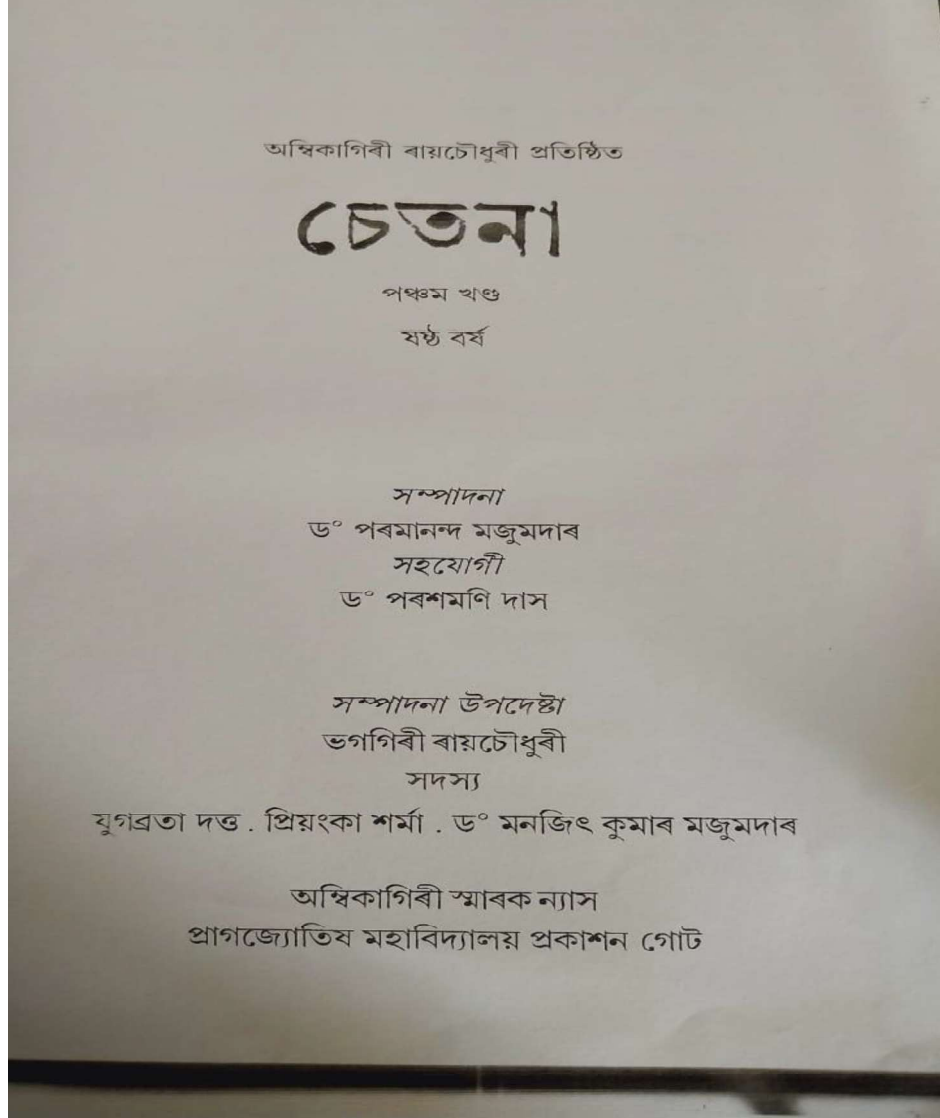
Cover Page-





Name of the author/ teacher- Dr Parashmani Das

Cover Page-



Chetana Vol-V; (Originally edited by Ambikagiri Rai Choudhury)
Compiled and edited by Dr. Paramananda Majumdar and published by
Dr. Manoj Kumar Mahanta, Principal, Pragjyotish College, Guwahati-781009.
Price : Rs. 850.00

প্ৰাগজ্যোতিষ মহাবিদ্যালয় প্ৰকাশন গোট

ড° মনোজ কুমাৰ মহন্ত (সভাপতি), ড° পৰমানন্দ ৰাজবংশী (উপদেষ্টা), অতনু কুমাৰ চৌধুৰী
(সদস্য), প্ৰিয়ংকা শৰ্মা (সদস্য), ড° মনজিৎ কুমাৰ মজুমদাৰ (আহায়ক),
ড° ইলা দাস (সদস্য), ড° পৰশমণি দাস (সদস্য), উনিদজ্যোতি চৌধুৰী (সদস্য), ড° পৰমানন্দ
মজুমদাৰ (আজীবন সভ্য)

প্ৰথম প্ৰকাশ : ডিচেম্বৰ, ২০১৮

পৰিবেশক

বান্ধৱ, যশোৱন্ত পথ

পানবজাৰ, গুৱাহাটী-৭৮১০০১

দূৰভাষ : 09859646533

ই-মেইল : bandhavpublication@gmail.com

ISBN : 978-81-922120-5-0

প্ৰচ্ছদ : মনজিৎ ৰাজখোঁৱা

মূল্য : ৮৫০.০০ টকা

মুদ্ৰণ

শিবম প্ৰিণ্টাৰ্চ

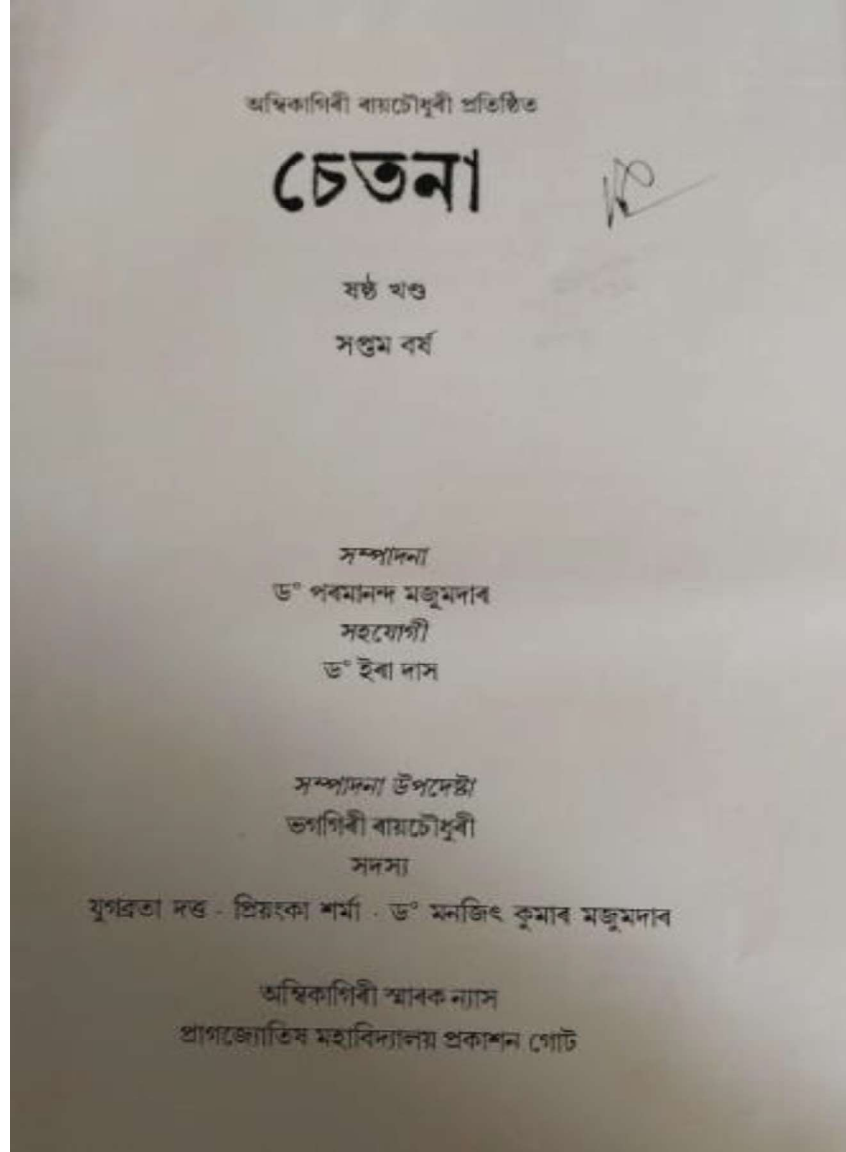
হাতীশিলা, পানীখাইতি, গুৱাহাটী-৫০

ই-মেইল : sivamprintersassam@gmail.com

bikashdev1@yahoo.in

Name of the author/teacher- Dr Ira Das

Cover page-



Chetana Vol-VI, (Originally edited by Ambikagiri Rai Choudhury)
Compiled and edited by Dr. Paramananda Majumdar and published by
Dr. Manoj Kumar Mahanta, Principal, Pragjyotish College,
Guwahati-781009. Price : 750.00

প্ৰাজ্যোতিষ মহাবিদ্যালয় প্ৰকাশন গোট

ড° মনোজ কুমাৰ মহন্ত (সভাপতি), ড° পৰমানন্দ বাজবৰ্ষী (উপদেষ্টা), অতনু কুমাৰ
চৌধুৰী (সদস্য), প্ৰিয়ংকো শৰ্মা (সদস্য), ড° মনজিৎ কুমাৰ মজুমদাৰ (আস্থায়ক),
ড° ইৰা দাস (সদস্য), ড° পৰশমণি দাস (সদস্য), উদ্বিন্দজ্যোতি চৌধুৰী (সদস্য),
ড° পৰমানন্দ মজুমদাৰ (আজীৱক সভ্য)

প্ৰথম প্ৰকাশ : জানুৱাৰী, ২০১৯

পৰিবেশক

বান্ধৱ, বংশোদ্ভূত পথ

পানবজাৰ, গুৱাহাটী-৭৮১ ০০১

দূৰভাষ : 09859646533

ই-মেইল : bandhavpublication@gmail.com

ISBN : 978-81-922120-4-3

প্ৰচ্ছদ : মনজিৎ বাজবৰ্ষী

মূল্য : ৭৫০.০০ টকা

মুদ্ৰক

ভবানী অফ্‌সেট প্ৰাইভেট লিমিটেড

ভবানী কমপ্লেক্স, হাতীশিলা, পানীঘাইতি, গুৱাহাটী-৭৮১০২৬

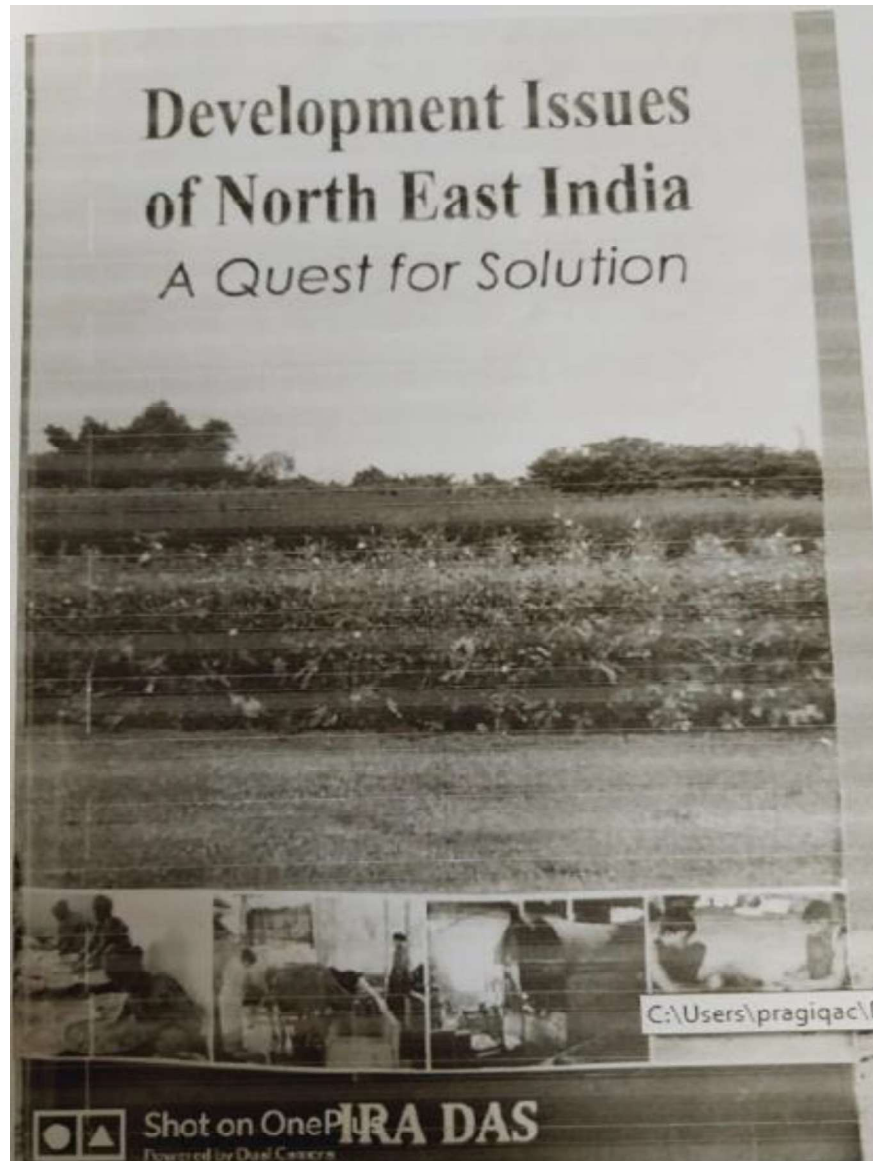
ফোন : (০৩৬১) ২১০২০১৪ ফেক্স : (০৩৬১) ২৪০০৭২৭

Website: www.bhabani.com

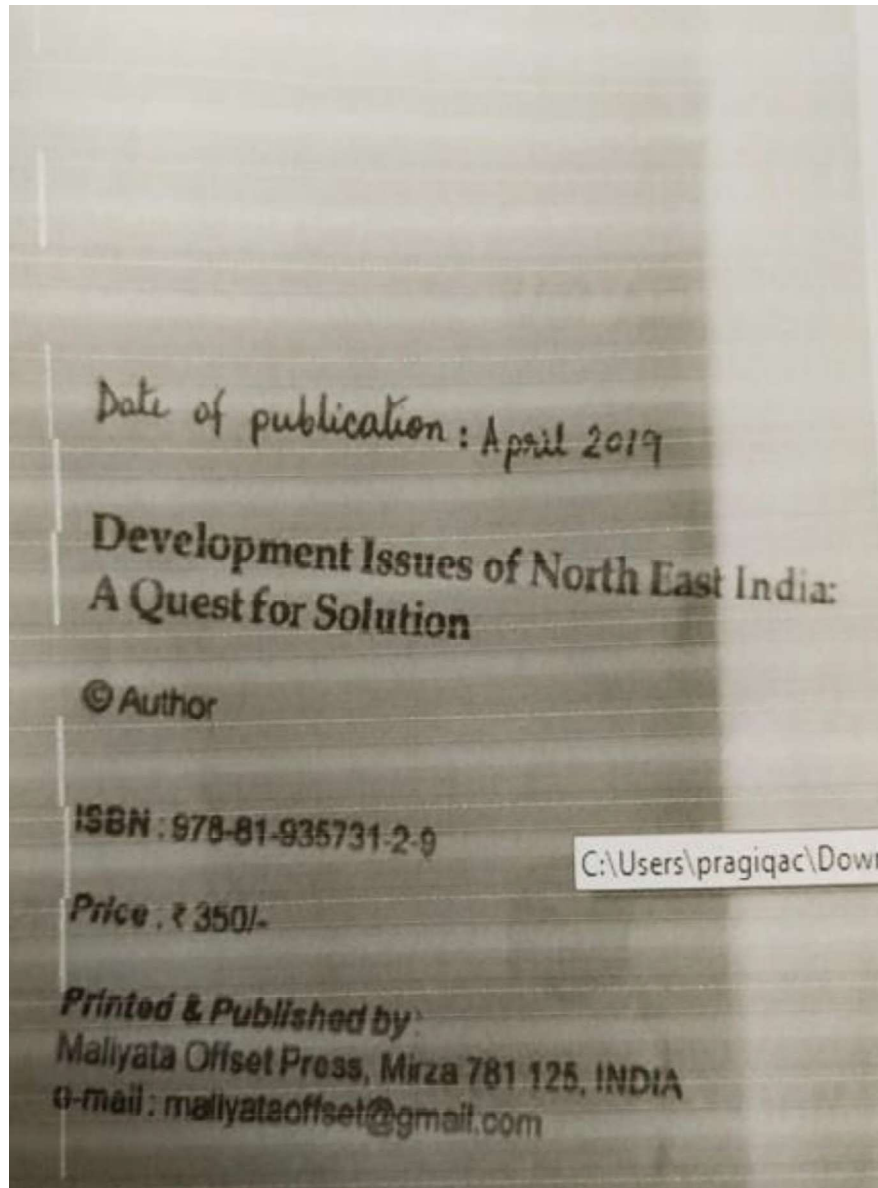
E-mail: books@bhabani.com

Name of the author/teacher- Dr Ira Das

Cover Page-

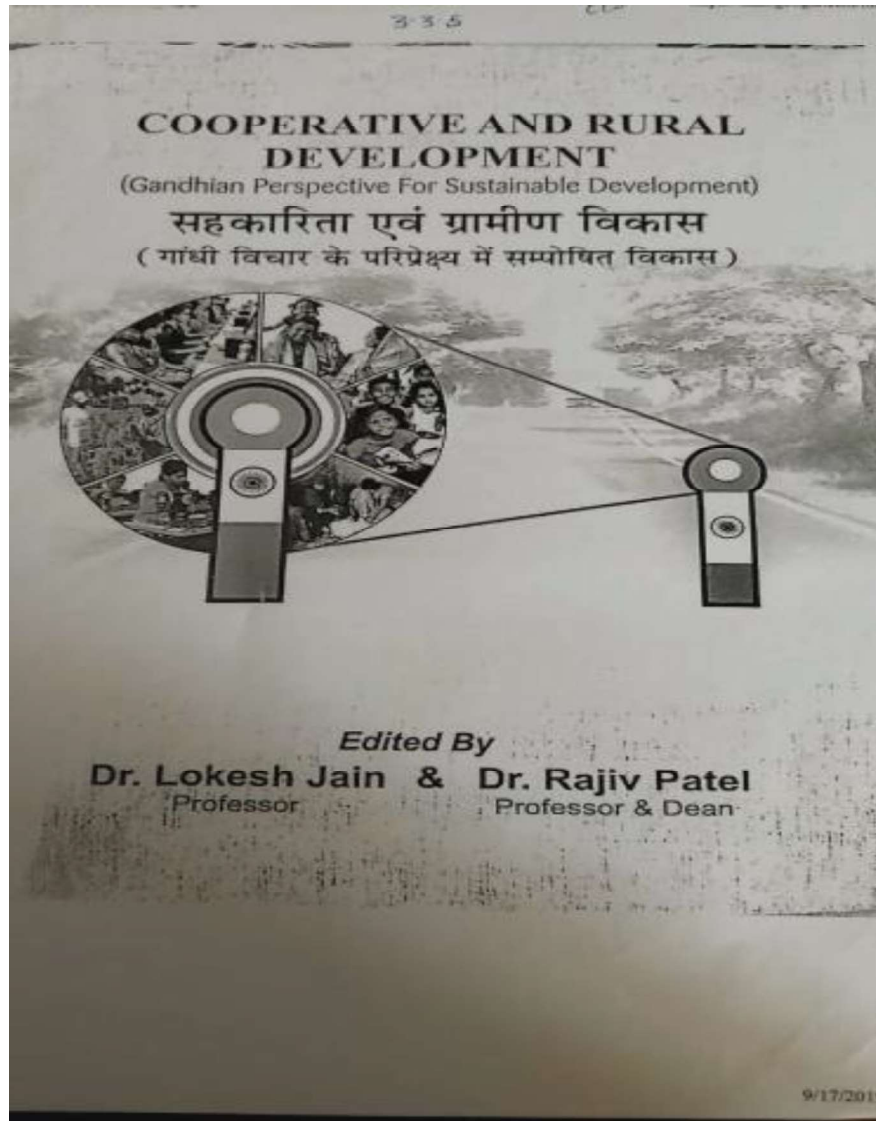


Content Page-



Name of the author/teacher-Dr Bidyut Bikash Baishya

Cover Page-



Content Page-

6.	Indian Cooperative Movement vis-a-vis Indian Economy Speech of Shri N. Satyanarayana, Chief Executive, National Cooperative Union of India, New Delhi - 16	42
7.	Food Security and Cooperatives Dr. V.K. Dubey, Director, National Cooperative Union of India, New Delhi - 16	53
8.	Role of National Cooperative Union of India in Achieving Sustainable Development Goals Dr. A.R.Srinath, Director, NCUI	58
9.	Sustainable Development for Co-operative and Environment Protection Prof. (Dr.) Ranjeet Kumar Singh, Pro-Vice-Chancellor, Kolhan University, Chaibasa, Jharkhand & Dr. J. P Mishra, Dean Social Sciences Kolhan University, Chaibasa, Jharkhand & Dr. K. Swarim, Assistant Professor, Dept. of Zoology, R.W.C., R.U., Ranchi	61
10.	Need For Inclusive Growth of Human Settlements N.S. Mehara, Chief Executive, National Cooperative Housing Federation of India (NCHF), New Delhi	65
11.	The Irula's Snake Catchers Industrial Co-Operative Society: With A Difference Dr. P. Selvaraju, Assistant Professor and Head, Department of Co-operative Management, Rajiv Gandhi Arts and Science College (PONSHE: Govt. of Puducherry), Puducherry-605 007	77
12.	Innovations in Management of Cooperatives Dr. Deepak M. Salve, Associate Professor, The Bharat Education Society's Sant Gadge Maharaj College of Commerce and Economics, Mumbai: - 400004	88
13.	The Role of Cooperatives in Indian Economy: A Review Dr. Prashant Agarwal, Associate Professor, S.R.K. (P.G.) College, Firozabad (U.P.)	91
14.	Performance and Growth of Cooperative Societies in Kohima District - An Empirical Study Dr. Amrendra Kumar Yadav, Assistant Professor & - Vihoshe Achumi Research Scholar, Department of Commerce, Magaland University, Kohima Campus Meriema	101
15.	Impact of 'FISHFED' for Changing Livelihood during Assam Agricultural Competitiveness Project (AACP) Intervention in Raha Area of Nagaon District, Assam, India Dr. Bidyut Bikash Baishya, Assistant Professor, Department of Economics, Pragjyotish College, Guwahati -781009. e-mail: bidyut78@gmail.com	107

Impact of 'FISHFED' for Changing Livelihood during Assam Agricultural Competitiveness Project (AACP) Intervention in Raha Area of Nagaon District, Assam, India

Dr. Bidyut Bikash Baishya, Assistant Professor, Department of Economics, Pragiyotish College, Guwahati -781009. e-mail: bidyut78@gmail.com

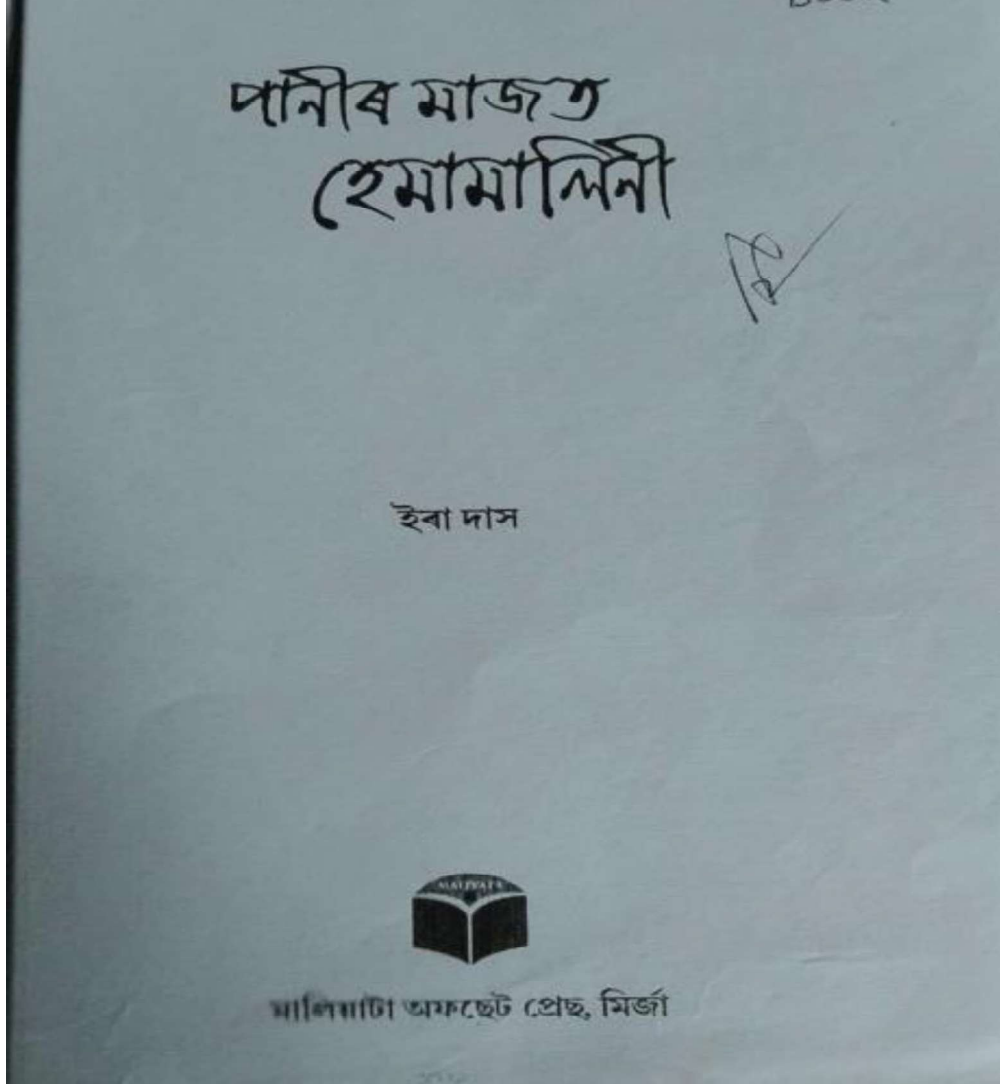
1. Introduction

After successful completion of Assam Rural Infrastructure and Agricultural Services Project (ARIASP), World Bank financed 'Assam Agricultural Competitiveness Project (AACP)' with World Bank credit of US\$ 154 million, was taken-up from February 2005. In January 2012, AACP got an Additional Financing (AF) of US\$ 50 million from the World Bank. AACP along with the Additional Financing (AF) was closed on 15 March 2015. AACP involved activities under the departments of Public Works, Agriculture, Fisheries, Animal Husbandry and Forest of the State Government, and the Assam Agriculture University. The objective of the project was to increase the productivity and market access of targeted farmers and community groups. Key indicators of success were increased yields of crops, fish and livestock products - complemented by an increase in the proportion of marketed surplus. Project activities were predominantly pro-poor, directed primarily at small and marginal landholders, poor fishing communities and the landless.

Assam Apex Cooperative Fish Marketing & Processing Federation Ltd shortly known as FISHFED is an apex level cooperative federation registered under the Assam Cooperative Societies Act, 2007 under registration No.G-25 dated 01/06/1978. The main objective of the federation is to help the fishermen community in their socio economic development through the primary fishery cooperative societies by increasing the production of fishes through member societies as well as through its own project and marketing the production through various market and sales booths of FISHFED by eliminating the middlemen assuring better price to the fishermen and an assured market to the consumer. FISHFED had 516 cooperative societies under its control worked

Name of the author/teacher- Dr Ira Das

Cover Page-



Content Page-

PANIR MAJOT HEMAMALINI

A collection of some published and unpublished stories written by Dr. Ira Das and Published by Maliyata Offset Press, Mirza 781 125 on 25th April, 2019. Price : ₹ 150 (One Hundred Fifty Only)

ISBN : 978-81-935731-3-6

© লেখকৰ দ্বাৰা সৰ্বস্বত্ব সংৰক্ষিত

বেটুপাত : ইণ্টাৰনেটৰ সহায়ত

প্ৰথম প্ৰকাশ : ২৫ এপ্ৰিল, ২০১৯ ইং চন

মূল্য : ₹ ১৫০.০০ (একশ পঞ্চাশ) টকা মাত্ৰ


প্ৰকাশক আৰু মুদ্ৰণ : মালিয়াটা অফছেট প্ৰেছ, মিৰ্জা ৭৮১ ১২৫

Name of the author/teacher- Chandra Kant Pawe

Cover Page-

© Springer Nature Switzerland AG 2019

About this chapter

 Check for updates

Cite this chapter as:
Pawe C.K. (2019) The Heat is on in the Himalayas: Assessing Srinagar's Urban Heat Island Effect. In: Saikia A., Thapa P. (eds) Environmental Change in the Himalayan Region. Springer, Cham

First Online 20 February 2019	DOI https://doi.org/10.1007/978-3-030-03362-0_6	Publisher Name Springer, Cham
Print ISBN 978-3-030-03361-3	Online ISBN 978-3-030-03362-0	eBook Packages Earth and Environmental Science

[Buy this book on publisher's site](#)

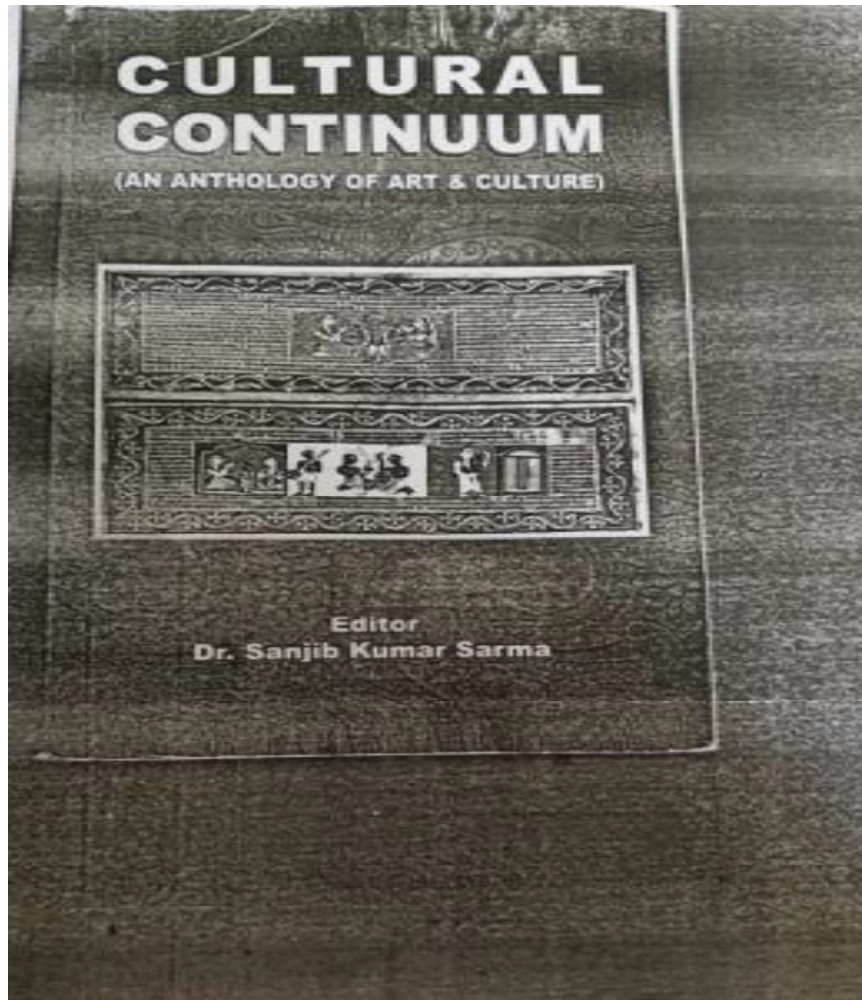
[Reprints and Permissions](#)

First Page of the publication-



Name of the author/teacher- Anjali Devi

Cover Page-

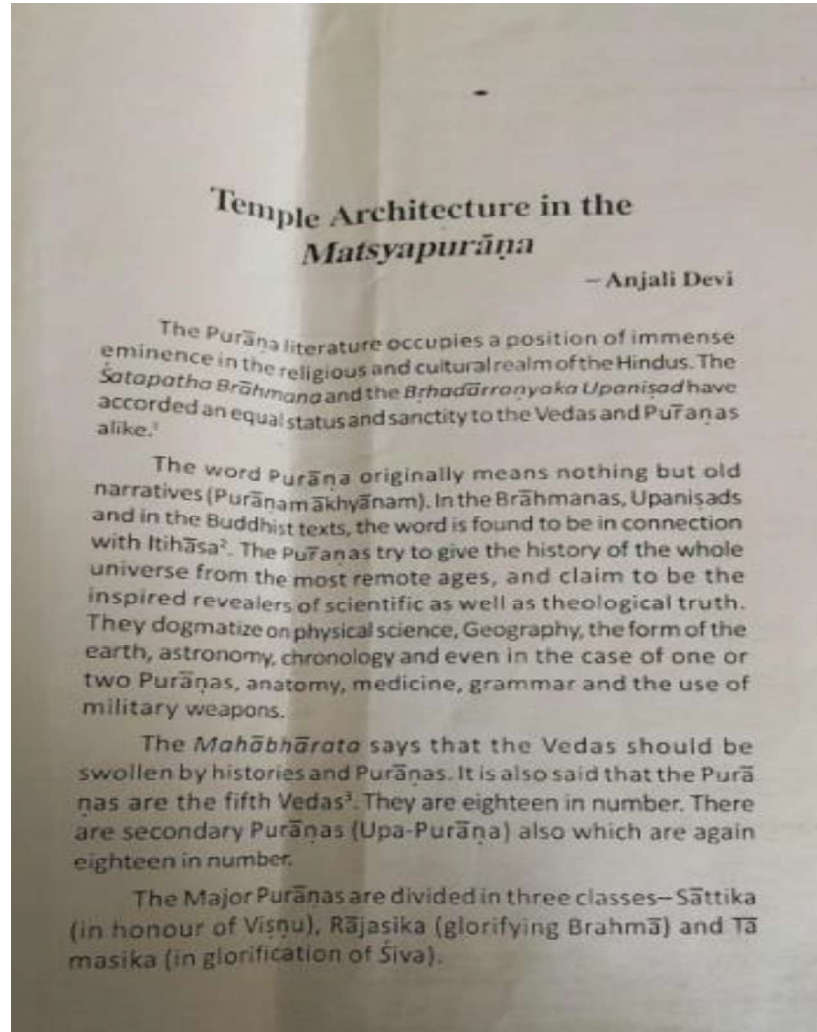


Content Page-

ISBN: 978-81-8390-232-3

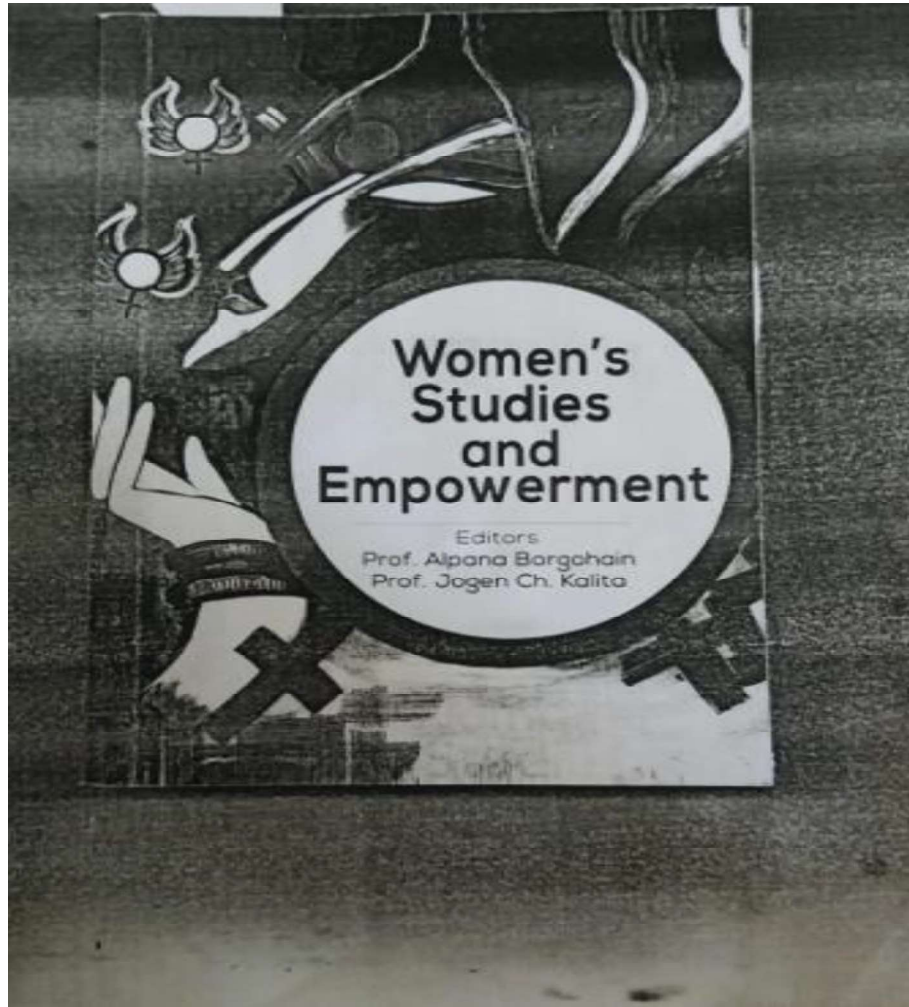
	Pg.No.	
7. Position of Women in Vedic Society and its Relevance in Modern Times Mrs. Mridusmita Devi ✓	52	
8. Teaching-Learning Process - Role of Teachers in Learning Sanskrit Language and Literature Dr. Khageshtra Nathi Deva Sarma	67	
9. Apontoseyatva - An Analysis of Contradictions in Rkpratisākhya Dr. Harakrushna Mishra, Visva Bharati	72	
10. Educational System of the Vedic Age - Tikendra Gautam	79	
11. Narada's Concept of Bhakti - Dr. Ajay Kumar Jha	88	
12. The Teachings of Karman : A Vedic Study - Prof. Manjula Devi	96	
13. Temple Architecture in the Matsyapurāna - Anjali Devi ✓	105	
14. The Problem of Identification of Bhartrhari and Bhamini - An Analysis - Pomi Talukdar	111	
Section : B ENVIRONMENT, YOGA AND HEALING PRACTICE		
15. Exploration of Yoga through Vedic Mantras - Dr. Niranjan Jena	119	
16. The Combination of Yoga and Ayurveda in Prevention and Curation of Disease - Dr. Mayank	133	
17. Deification of Non-Living Objects in Vedic Tradition - A Critical Perspective - Priyanka Ghosh Dastidar	137	

First Page of the publication-



Name of the author/teacher- Anjali Devi

Cover Page-



Content Page-

Contents	
Women's Studies – Its Relevance In Contemporary Theory And Practice <i>Lalanzual Khawbung</i>	9
“Women's Studies”: Tracing the growth of the Discipline with particular reference to India <i>Anjali Devi</i>	18
Amartya Sen's Perspective on Women Agency and Development <i>Ngahpi Lhouvum</i>	25
Practice of Women Studies and the Question of Sexual Harassment <i>Dr. Ananaya Gogoi</i>	30
Literature and Women Empowerment: Theory and Practice <i>Sumi Bora</i>	39
Women in Ancient Sanskrit Literature: An Approach <i>Dr Indrani Deka</i>	46
Women's Right of Property in The <i>Dharmasastras</i> <i>Rajib Sarmah</i>	53
Women Empowerment and It's Challenges in India <i>Jayanta Borah</i>	59
हिन्दी महिला में जाति <i>डॉ० राजेशा तेलतुक</i>	65
Current Status of Women in India from Educational Perspective <i>Dr. Nabanita Sarmah</i>	69
Empowering Women through ICT in Science Education <i>Rita Sinha</i>	77
Physiological Response of Girls and Women to Exercise and Physical Training: An overview <i>Awashes Subba</i>	82
Status of Women In Ancient Assam on the Basis of Inscriptions <i>Indrani Choudhury</i>	91

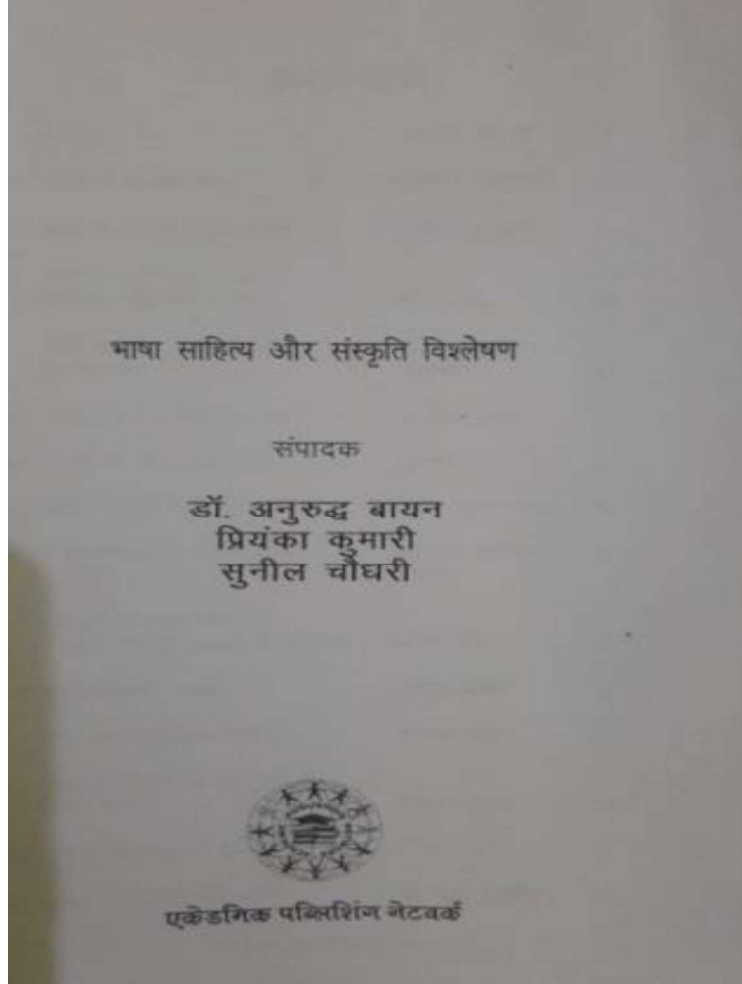
First Page of the publication-



2019-2020

Name of the author/teacher- Nandita Rajbongshi

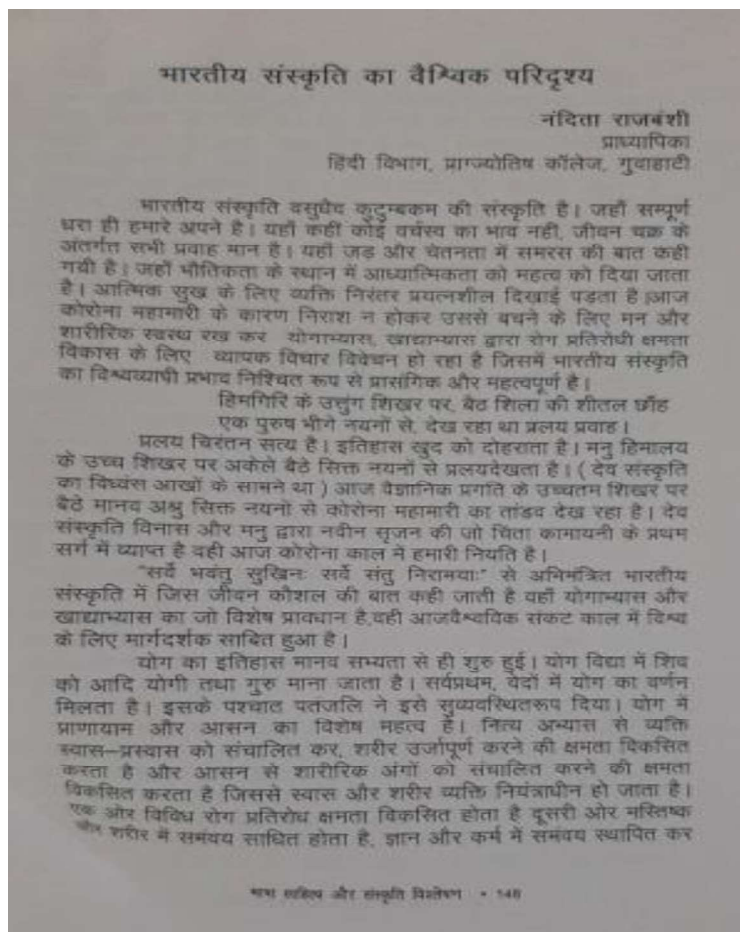
Cover Page-



Content Page-

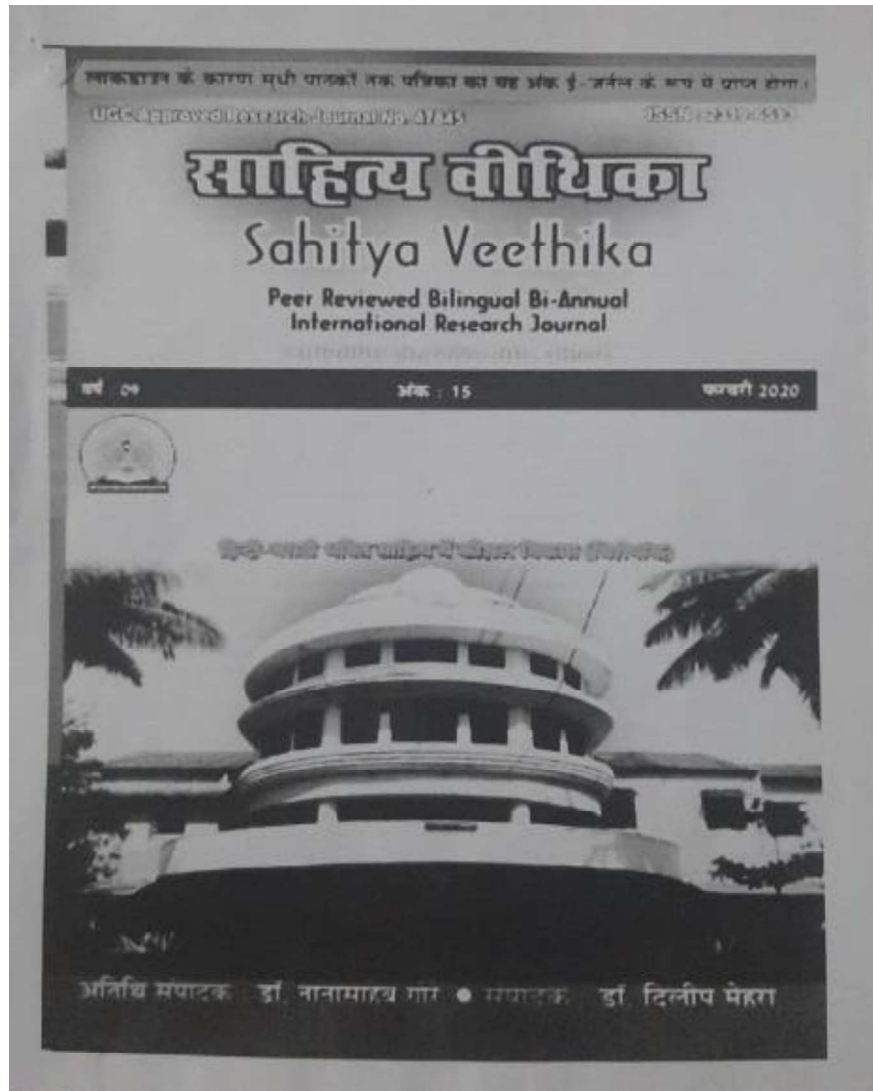
15. अस्तमिया भाषा के विकास में डाई आहोम भाषा का योगदान	दिनेश बोरा	101
16. जैनेन्द्र कुमार और होमैन बरगोहोई के उपन्यासों की भाषा-शैली	डॉ. मञ्जुमणि साहित्य	107
17. हरिवंश राय बच्चन और इंदिरा नोस्वामी के आत्मकथाओं की तुलना	वीनाश्री देवी	114
18. रामदत्त मिश्र के उपन्यास में चित्रित नारी	डॉ. कर्की लक्ष्मणर	119
19. सांस्कृतिक नवोत्थान और समकालीन हिन्दी साहित्य	डॉ. सोमनाथ कोकठाऊन, डॉ. बी. अनिरुद्धन	126
20. प्रेमचंद के साहित्य में किसान	डॉ. जौनानी बरुआ	134
21. ग्रामीण और शहरी संस्कृति	निशिता सहा	142
22. भारतीय संस्कृति का वैश्विक परिदृश्य	नदिता राजवंशी	148
23. भारतीय संस्कृति का बदलता स्वरूप	पंखी सेनापति	150

First Page of the publication-



Name of the author/teacher- Nandita Rajbongshi

Cover Page-



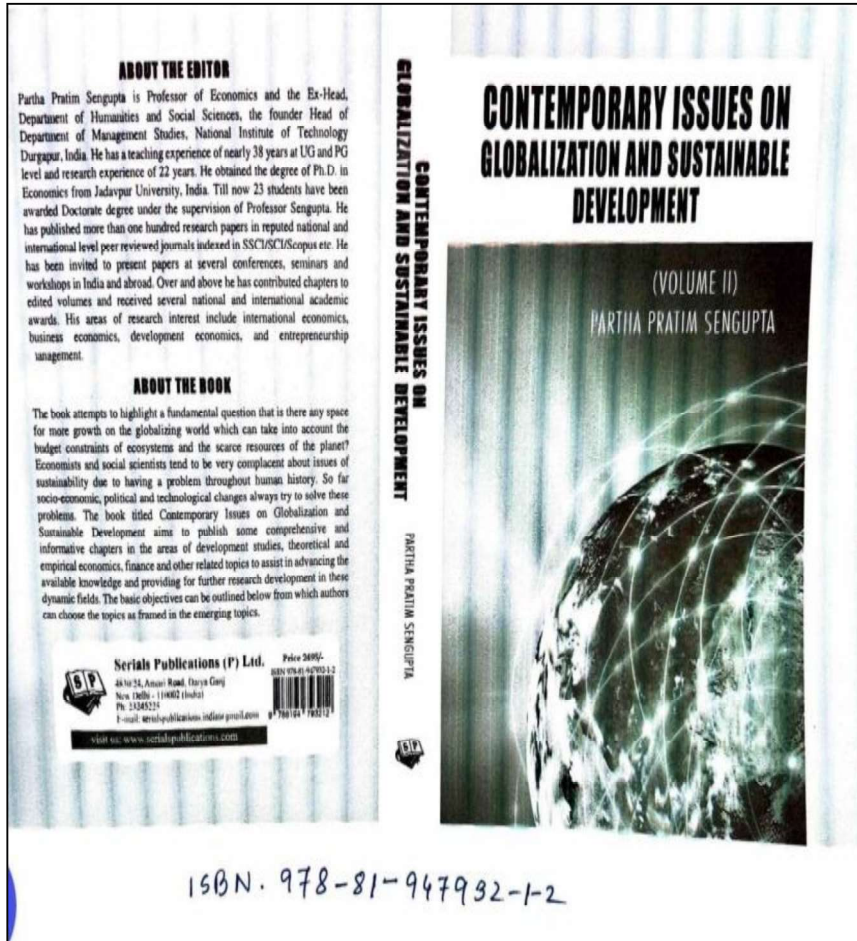
Content Page-

अनुक्रम

<p>1. भक्तिकालीन साहित्य में कौशल-विकास डॉ. मारुती मोरे 09</p> <p>2. गुरु भानुदास की वाणी में समाज दर्शन डॉ. बाळाजी भावकबाबू 13</p> <p>3. कबीर में अधिष्ठाता प्रेरणा कौशल -अधिराज-बाबूबाबू 18</p> <p>4. रामदास रामदास रचित 'मनोबोध' और सामाजिक स्वास्थ्य प्रश्नानु डॉ. सुनील ढड्डाने 22</p> <p>5. तुलसीदास का लोक संघटन तथा प्रेरणा कौशल डॉ. लक्ष्मण कदम 27</p> <p>6. संत देवास : अधिष्ठाता कौशल डॉ. डॉ. जयश्री बाबूबाबू 37</p> <p>7. संत कबीर में संघटन कौशल की प्रभावशालकता डॉ. मजीद शौख 43</p> <p>8. भक्ति आन्दोलन का मानवीय पक्ष में तुल्य विकास कौशल के सन्दर्भ में डॉ. रमेश विठोबा कांबळे 50</p> <p>9. हिन्दी-मराठी भक्ति साहित्य में शक्ति कौशल विकास करिश्मा अय्युब पठाण 56</p> <p>10. भक्तिकालीन साहित्य में अधिष्ठाता भाव कौशल के सन्दर्भ में डॉ. प्रकाश साबोले 58</p> <p>11. महात्मा कबीर और संत तुकाराम के काव्य में कौशल विकास डॉ. किशोरी पामकिशन सांगवी 59</p> <p>डॉ. सदीप ईश्वर प्रसाद 59</p> <p>12. संत कवि तथा काव्य - एक विस्तार डॉ. अनिता राजत 62</p> <p>13. संत कबीरजी के हिन्दी साहित्य में प्रेरणा कौशल एक अध्ययन डॉ. डॉ. मदिना शिखर शौख 66</p> <p>14. हिन्दी-मराठी भक्ति साहित्य में संत नामदेव का संगठन कौशल डॉ. डॉ. बी.एस. राठोड़ 70</p> <p>15. भक्ति साहित्य में भावकतावाद - एक कौशल डॉ. विजयकुमार एस. वैराटे 73</p>	<p>16. भारतीय संत : संघटन कौशल और समाज निर्माण डॉ. संख्या भीडि 75</p> <p>17. भक्ति साहित्य में संतों का नेतृत्व कौशल डॉ. प्रवीण विजयानंद चंदनशिवे 78</p> <p>18. संत आनंदसर का लेखन कौशल डॉ. गीता निजमे 83</p> <p>19. संत कबीर और संत तुकाराम का संघटन कौशल डॉ. वैदने ए.जे. 86</p> <p>20. तुलसीदास के काव्य में अधिष्ठाता कौशल डॉ. सुमद्राकुमारी शिन्हा 90</p> <p>21. तुलसीदास के काव्य में संगठन कौशल डॉ. प्रदीप पाटील 93</p> <p>22. कबीर वाणी के डिक्टेटर है डॉ. संतोष रामचंद्र झाडे 96</p> <p>23. हिन्दी-मराठी भक्ति साहित्य : कौशल विकास की विरलता पाठशाळा डॉ. मानासाहेब मोरे 102</p> <p>24. संत कबीर के साहित्य में शुद्ध आचार, विचार एवं व्यवहार कौशल सोख मोठरीन इकाहीन 108</p> <p>25. संत कबीर और उनका लेखन कौशल डॉ. बी.आर. दलवी 109</p> <p>26. हिन्दी भक्ति साहित्य में भाविक कौशल डॉ. रजनी सादेराव दंडे 112</p> <p>27. भक्ति साहित्य में कौशल विकास डॉ. पराशर मेहरे 118</p> <p>28. मराठी भक्ति-कीर्तन में जनसंघटन कौशल डॉ. वी.बी. कपले 121</p> <p>29. संत आनंदसर के साहित्य में जीवन की प्रेरणा सुधिया प्रभाकर जोशी 126</p> <p>30. वैसीकरण के परिधि में संत साहित्य की प्राणिकता खान कबीना शमीम 131</p> <p>31. तुलसी के रामचरितमानस में समाज प्रेरणा डॉ. वी.डी. चौधरे 134</p> <p>32. तुलसी की वस्तु और भाषा-कौशल डॉ. अर्जुन तडवी 140</p>
--	--

Name of the author/teacher-Dr Ira Das

Cover Page-



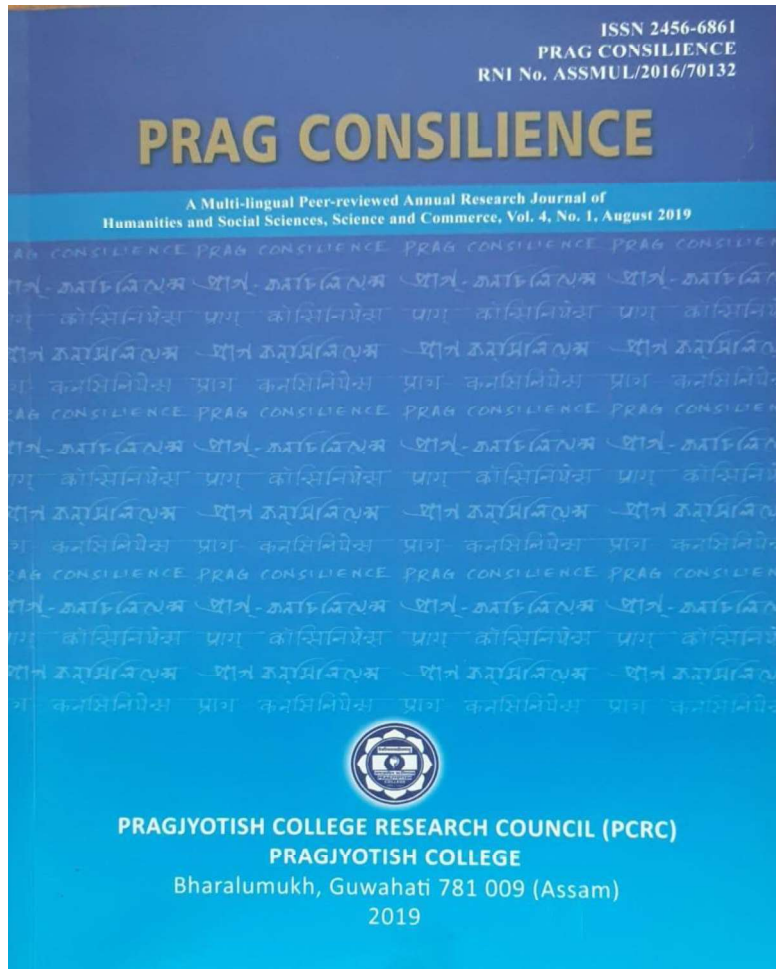
Content Page-

CONTENTS

<i>Editorial Advisors</i>	vii
<i>Forward</i>	ix
<i>Preface</i>	xi
1. India-China Merchandise Trade: Issues and Opportunities <i>Imran Ahmad and Mohd Hussain Kanroo</i>	1
2. Earnings Management – A major deterrent for sustainable corporate growth and governance: Some Indian evidences <i>Satyajit Dhar, Somnath Banerjee and Anirban Dutta</i>	41
3. Economic Growth, Export and CO ₂ Emission in Manufacturing Sector: A Study on BRICS Countries <i>Sidhartha Sankar Laha, Anjan Ray Chaudhury Debnath Palit</i>	61
4. Examining the Impact of Food Processing Industry on Rural Economy in Assam of North East India: A Social Accounting Matrix Approach <i>Ira Das, Mrinal Kanti Dutta and Saundariya Borbora</i>	77
5. Farmers' Suicides in India: Issue, Causes and Remedial Measures <i>Laila Memdani, Kaala Chenji and Sode Raghavendra</i>	103
6. Economic Reforms in the Context of Frictional Economy: A General Equilibrium Analysis <i>Titas Kumar Bandopadhyay</i>	113
7. Gender and Work Burden in Rural Arunachal Pradesh of India: a Time Use survey in Selected Districts <i>Dil Bahadur Gurung and Biman Kumar Nath</i>	135

Name of the author/teacher-Dr Jyotirmoy Sengupta

Cover Page-



Content Page-

CONTENTS

Humanities and Social Science Section

1. Organized Retail Outlets and Customers' Satisfaction: A Study in Guwahati City, Assam, India
Dr. Bidyut Bikash Baishya / 7
2. Religious Beliefs and Practices of Fishermen: A Descriptive Study of Assam
Dr. Avijit Kumar Dutta / 17
3. An Overview of the Sculptural Motifs of Madan Kamdev: An Empirical Study
Abhijit Bharali / 24
4. Cultural Aspects and Social Systems of the Bodos and their Lives: A Descriptive Study
Dr. Jayanta Deka / 34
5. Traditional Religious Practices of The Ao Nagas
Kabita Doloi / 40
6. Christian Missionaries and the Tribal Ethos in Pre Independent Assam
Dr. Nandini Sarma / 50
7. Breaking Traditional Notions of Impurity With Specific Reference to the Sabarimala Case
Arpita Das / 61
8. Lived Religions and Nuanced Syncretism: The Islam in India
Dr. Sabrina Iqbal Sirca / 68
9. 'Ankiya Nat'- It's Role in the spread of Bhakti Movement & its Futuristic Aspects
Priyanka Sarmah / 78
10. A Reading of Women's Character in Shashi Deshpande's Novels With Particular Reference to Small Remedies and The Dark Holds No Terror
Laltlanzuol Khawbung / 85
১১. নির্মলপ্রভা ববদলৈৰ গীতৰ ভাষা
ড° কল্পনা তালুকদাৰ / 93
১২. উমাকান্ত শৰ্মাৰ *এজাক মানুহ এখন* অৰণ্য উপন্যাসত প্ৰতিফলিত উনবিংশ শতিকাৰ চাহ জনগোষ্ঠীয় সমাজ জীৱনৰ সমস্যা
উৎপল মেচ / 107
১৩. আখ্যানৰ সন্ধানে ব্ৰহ্মপুত্ৰ উপত্যকাৰ বাংলা উপন্যাস
ড° জ্যোতিৰ্ময় সেনগুপ্ত / 116

First Page of the publication

PRAG CONSILIENCE: ISSN 2456-6861, RNI No. ASSMUL/2016/70132
A Multi-lingual Peer-reviewed Annual Research Journal
of Humanities and Social Sciences, Science and Commerce
Vol.4, No.1 (2019), pp. 116-130

আখ্যানের সন্ধানে ব্রহ্মপুত্র উপত্যকার বাংলা উপন্যাস IN SEARCH OF NARRATIVE IN BENGALI NOVELS OF THE BRAMHAPUTRA VALLEY

ড° জ্যোতির্ময় সেনগুপ্ত *

Abstract: *When we try to critically analyse literary contributions of a particular region, it obviously tend to find out the internal uniqueness of the creation. The bengali novels written in Bramhaputra valley bear such characteristics for the purpose. The history of migration or settlement of Bengali speaking people in this region can be traced back to 13th century. Some of their successors contributed in modern Bengali literature from 19th century itself. But the valley got its first Bengali novel only in 1967. From then the novelists of the region have made a sizable contribution to the Bengali literature. In recent time a subtle change have been noticed in theme selection, manifestation and the manner of addressing different social issues arround them. Migration and settlement, relentless displacement, social constraints and conflict, resentment, existence issues and the cultural-linguistic harmony etc. are rapidly replacing certain customary approach of early days with firm reliability. This has already began to create a new narrative of Bengali novels as a whole. In this analysis we have tried to find out the uniqueness of this narrative.*

Keywords: Narrative, Migration, Cultural-linguistic harmony

১.০ প্রস্তাবনা

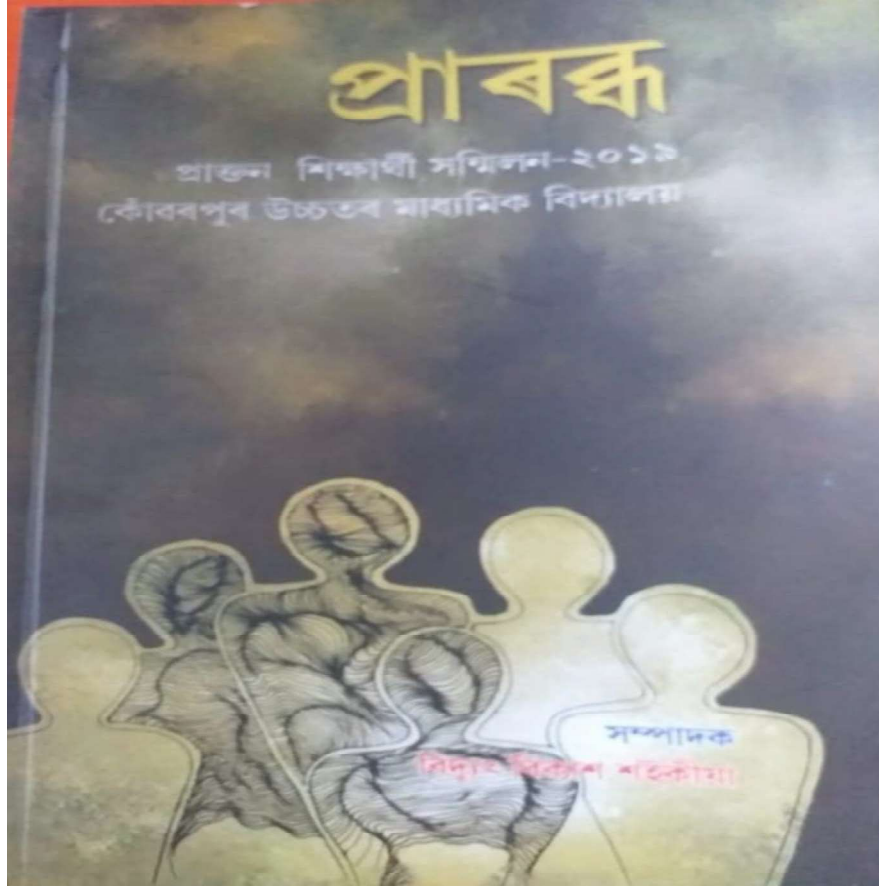
‘ব্রহ্মপুত্র উপত্যকার বাংলা উপন্যাস’ বা যদি বলা যেত অসমের বাংলা উপন্যাস’— ঠিক এই সময়ে পাঁড়িইে নিবিষ্ট বাক্যবদ্ধটি উচ্চারণে যেমন একটি কৃষ্ণি রয়েছে, তেমনি রয়েছে অসম্পূর্ণতার প্রতিভাস। সুতরাং শিরোনামটির মাধ্যমে আমরা যে জায়গাটায় পৌঁছতে চাইছি, সেখানে পথের সীমা বা সীমান্ত কিছুই নেই— শুধু রয়েছে একটি

Associate Professor, Department of Bengali, Pragjyotish College, Guwahati-9, E-mail: sgjyoti2@yahoo.in

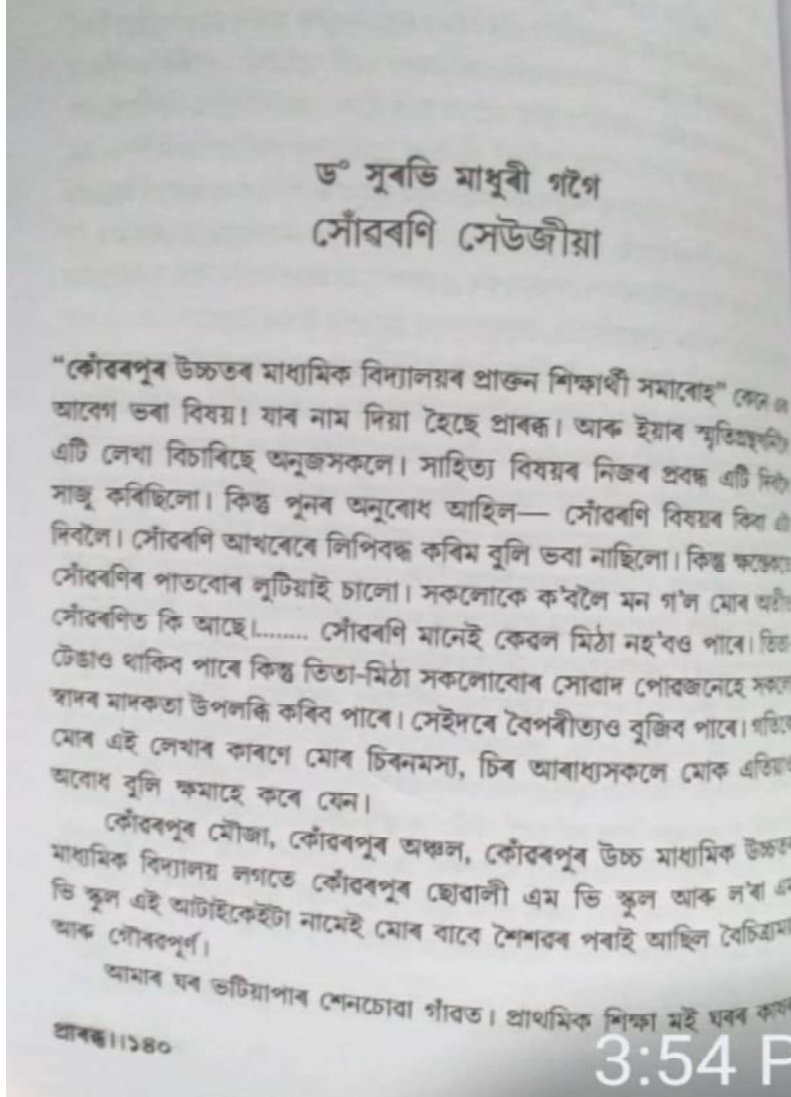
116 ♦ PRAG CONSILIENCE / VOL.4, NO.1 / AUGUST, 2019

Name of the author/teacher-Dr Surabhi Madhuri Gogoi

Cover Page-



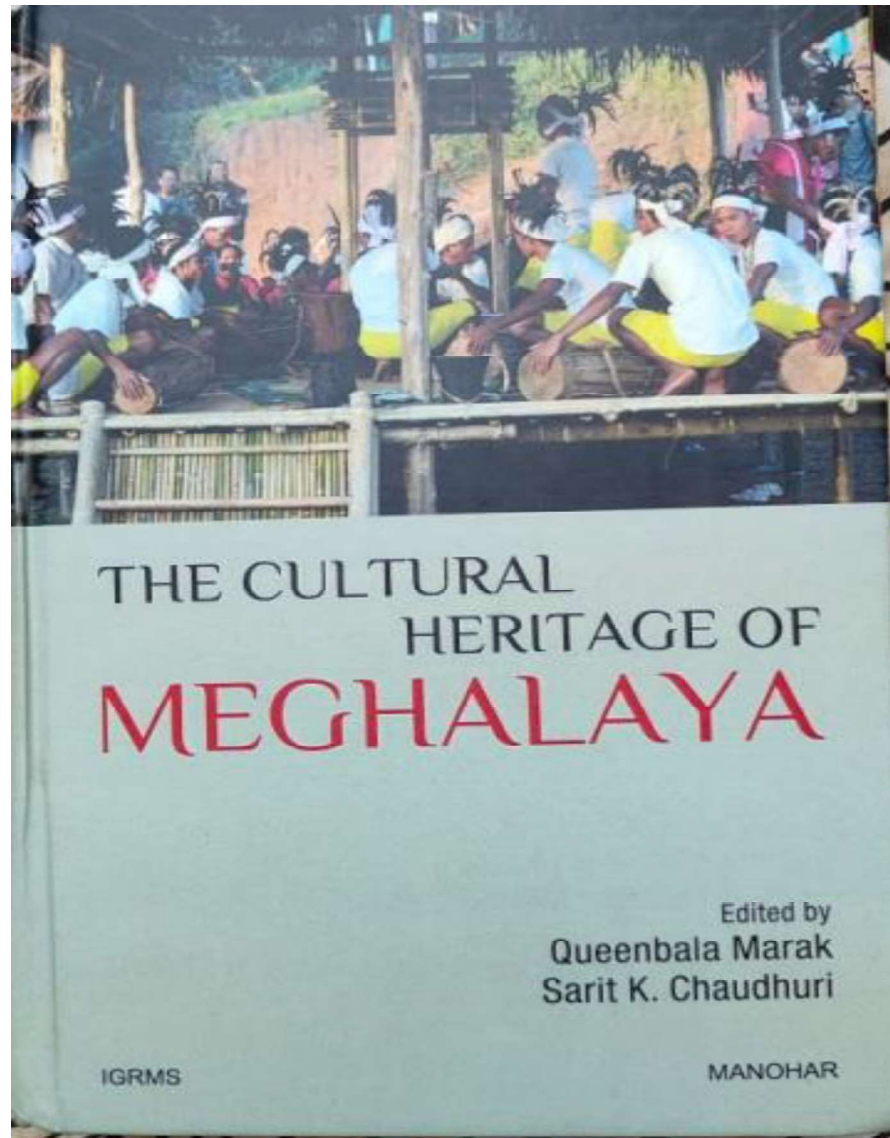
First Page of the publication-



2020-2021

Name of the author/teacher-Dr Gangotri Bhuyan

Cover Page-



Content Page-

Contents	
<i>Acknowledgements</i>	ix
Introduction <i>Queenbala Marak and Sarit K. Chaudhuri</i>	1
PART I: ARCHAIC PEOPLE AND POSSESSIONS	
1. Early Settlers of Meghalaya: An Anthropo- Archaeological Perspective <i>Abdullah Ali Ashraf</i>	23
2. Prehistoric Tool-making in Garo Hills <i>Queenbala Marak and Gangotri Bhuyan</i>	31
3. History Etched in Stone: A Study of the Khasi-Jaintia Megalithic Tradition <i>Cecile A. Mawlong</i>	47
4. Socio-Cultural Analysis of Megaliths in Jaintia Hills <i>Akoijam Milan Meitei</i>	69
5. Peopling of Shillong Plateau: A Molecular Anthropological Insight <i>Banrida T. Langstieh</i>	87
PART II: PEOPLE AND SOCIETY	
6. Revisiting the Oral: Controlling Mechanisms in a Non-Monetized and Non-Hierarchical Society <i>Tiplut Nongbri</i>	105

CHAPTER 2

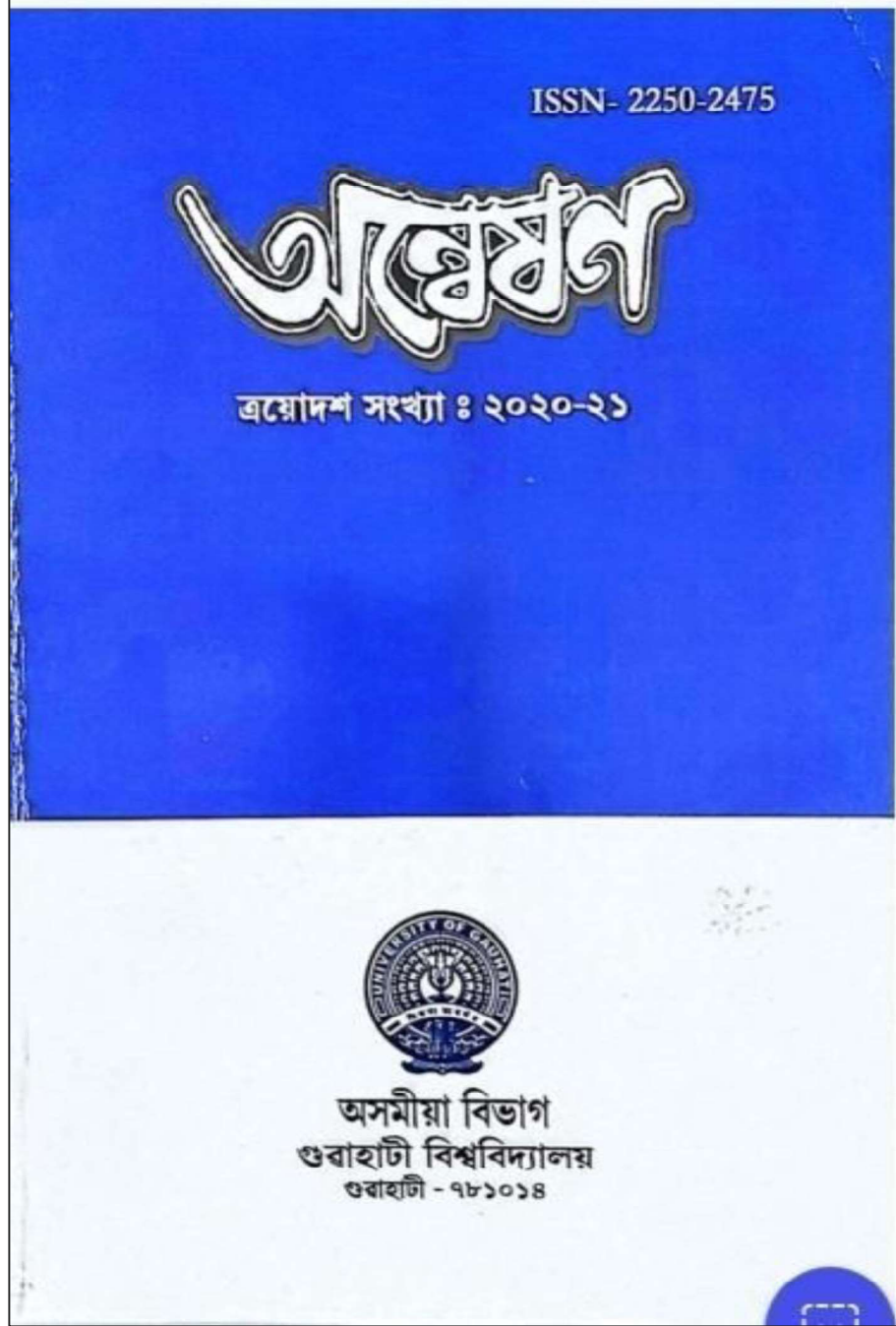
Prehistoric Tool-making in Garo Hills

Queenbala Marak and Gangotri Bhuyan

In north-east India, the most prolific area for prehistoric archaeology has been from the region known as the Garo Hills. For more than two decades, researchers from the Department of Anthropology in Gauhati University (since its inception in 1948), have annually explored various sites and documented the finds therein. Mention may be made of Professors M.C. Goswami, A.C. Bhagabati, T.C. Sharma, H.C. Sharma, S.K. Roy and A.A. Ashraf, and their Masters and Doctoral students. In all, a total of 30 sites were reported from West Garo Hills and four from East Garo Hills. Not only for its prolificacy, but also for the wide variation in tool typology it is likely that Garo Hills could hold the key, if a systematic documentation is carried out, for prehistoric migrations and settlement processes.

Despite the presence of Palaeolithic tools in Garo Hills reported by some authors (Sharma, 1974; Sharma, 1975; Sharma and Roy, 1985; Sharma, 1985; Sonowal, 1987; Sharma, 2003), this stage has been strongly contested in the north-east Indian context (Ghosh, 1978). This stage has been dubbed as 'Neolithic debitage' (Ghosh, 1978), and 'Pre-Neolithic equivalent to Palaeolithic elsewhere' (Medhi, 1988, 1990). However, some authors (Medhi, 1988; Marak et al., 2017) disagree with Ghosh and opine that these tools are not Neolithic debitage, but they were purposefully knapped. In fact, Ashraf (2006, 2010), Sharma (2003) and Sharma (2007) state that a pre-Neolithic phase exists in Garo Hills, which is the Hoabinhian phase. So far, the first author's researches (Marak, 2013, 2014) have

Name of the author/teacher- Dr Kalpana Talukdar
Cover Page-



Content Page

সূচীপত্ৰ/Table of Contents

উমাচল আৰু নগাজৰী-খনিকৰ গাঁও লিপিৰ প্ৰাচীনতাৰ পমখোদি ড° কনক চন্দ্ৰ চহৰীয়া	১-১১
মহিলচ ব্ৰহ্মনৰ 'অসমিয়া আৰু ইংৰাজি অভিধান' (A Dictionary in Assamese and English): এটি বিশ্লেষণ ড° প্ৰণীতা দেৱী	১২-২৬
মহাশ্বেতা দেৱীৰ 'অবণ্যৰ অধিকাৰ' ড° বেখা বাণী দেৱী	২৭-৩৬
কবিৰত্ন সৰস্বতীৰ 'কৈলাস বৰ্ণনা' ড° প্ৰাঞ্জল শৰ্মা বশিষ্ঠ	৩৭-৫২
শিশু-কবিতাৰ ভাষা মাধুৰ্য ড° দীপামণি হালৈ মহন্ত	৫৩-৬৩
নলিনীবালা দেৱীৰ কবিতাত সমাজ-চেতনা : এটি আলোচনা ড° মহেশ্বৰ কলিতা	৬৪-৭৭
বিষ্ণুপ্ৰসাদ বাভাৰ 'ভাষণাবলী : অসমৰ কৃষ্টি সংস্কৃতিৰ দলিল' ড° দীপামণি বৰুৱা দাস	৭৮-৮৭
সংগ্ৰহণ তত্ত্বৰ আধাৰত 'সুকথমুখীৰ স্বপ্ন' আৰু 'মিছামাছ' উপন্যাসৰ তুলনামূলক অধ্যয়ন হিৰণ্য কুমাৰ বৰা	৮৮-১০৩
নৱশব্দবাদৰ আধাৰত ভূপেন হাজৰিকাৰ গীতৰ একক ব্যবহৃত নবশব্দৰ শৈলীগত নিৰ্বাচন অংকুৰ জ্যোতি তালুকদাৰ	১০৪-১২১
পদ্মনাথ গোহাঞিবৰুৱাৰ শ্ৰীকৃষ্ণ আৰু বংকিমচন্দ্ৰ চট্টোপাধ্যায়ৰ কৃষ্ণচৰিত্ৰ গ্ৰন্থত পুনৰ্নিৰ্মিত কৃষ্ণ চৰিত্ৰ : এটি তুলনা ব'দালি চেতিয়া	১২২-১৩৯
হিন্দী চলচ্চিত্ৰৰ গীতত অসমীয়া গীতৰ অনুৰণন ড° কল্পনা তালুকদাৰ	১৪০-১৪৯
চৈয়দ আব্দুল মালিকৰ 'ধন্য নৰ তনু ভাল' উপন্যাসৰ সামাজিক পটভূমি : এটি আলোকপাত কুকিলা গোস্বামী	১৫০-১৫৭

First Page of the publication-

Anvesan : Journal of the Dept. of Assamese, G.U.# 546

Anvesan
Journal of the Dept. of Assamese, Gauhati University
Vol. XIII (2020-21)
ISSN: 2250-2475
pp. 140-149

হিন্দী চলচ্চিত্ৰৰ গীতত অসমীয়া গীতৰ অনুবৰ্ণন

ড° কল্পনা তালুকদাৰ
সহকাৰী অধ্যাপক, অসমীয়া বিভাগ
প্ৰাগজ্যোতিষ মহাবিদ্যালয়

সৰিভাগ

চলচ্চিত্ৰৰ এক গুৰুত্বপূৰ্ণ অংগ হ'ল সংগীত। সংগীতৰ উপস্থানৰে পৰিপূৰ্ত হৈছে চলচ্চিত্ৰৰ ছন্দাৱলী ন্যূনতম নৌপৰ্ব। ভাৰতীয় সংগীত মূলতঃ মেলতীপ্ৰধান। চলচ্চিত্ৰত সংগীতৰ প্ৰয়োগ সৰ্বত্ৰত প্ৰথম প্ৰায়ক হিচাপেই জাগৰে কৈছে, - সংগীতে চিনেমাৰ একোটা আবেশ বা ক্ষুদ্ৰত্বিক অৰ্থ প্ৰদান কৰে।

সংগীতে একোখন চলচ্চিত্ৰৰ কাঠাম আৰু ৰূপ নিৰ্মাণত বিশেষ ভূমিকা গ্ৰহণ কৰি আছে। সংগীতৰ লয় আৰু ছন্দিক অনুভৱৰ ৰূপ -ৰসৰ অভিজ্ঞতা আৰু জ্ঞানে এইবিধ কলাৰ বেহ নিৰ্মাণ পৰিকল্পনাৰ সহায় কৰি আহিছে। হিন্দী চলচ্চিত্ৰৰ লগত সংগীতৰ এক ওতপ্ৰোত সম্পৰ্ক আছে।

বৰিভাগত বুলি সৰ্বজন পৰিচিত মুম্বাইৰ হিন্দী চলচ্চিত্ৰ উদ্যোগ ভাৰতীয় চলচ্চিত্ৰ উদ্যোগৰ এটা বৃহৎ আৰু জনপ্ৰিয় ঠাল। ১৯১০ চনত মুক্তি প্ৰাপ্ত ধুমিৰাজ গোবিন্দ ফালকে পৰি 'বৰা হৰিশ্চন্দ্ৰ'ই হ'ল ভাৰতৰ সৰ্বপ্ৰথম পূৰ্ণদৈৰ্ঘ্যৰ ছবি। সংস্কৃত গ্ৰন্থৰ আধাৰত বৰি এজন নিৰ্মাণ ছবি। ইয়াৰ পিছত ১৯৩১ চনৰ ১৪ মাৰ্চত প্ৰথম ভাৰতীয় সৰ্বক ছবি আ ইয়াৰ 'আলম আৰা' মুক্তি পায়। এই ছবিখন সৰ্বীত জগতৰ ক্ষেত্ৰত এক মহিলাৰ মুক্তি মুক্তি পায়। এই ছবিখনত মুঠ সাতটা গীত আছিল। ছবিৰ অন্তৰ্গত গীতত কৰ্ত নিগৰোৰা বৰীৰ মংল খন হৈছে চিনেমা জগতৰ প্ৰথম মেগা গায়ক। ১৯৩২ চনত মুক্তি প্ৰাপ্ত 'মাধুৰী' চিনেমাখনত পোন প্ৰথমবাৰৰ বাবে অতৰ্কৃত গীতৰ সৈতে নৃত্যৰ সংযোজন ঘটা দেখিবলৈ পোৱা যায়। এই ছবিখনৰ বাবেই ভাৰতীয় চলচ্চিত্ৰ উদ্যোগত ফিল্মী সৰ্বীত- ধাৰাটৰ আৰম্ভণী ঘটে। দৰাচলতে

Name of the author/teacher- Dr Surabhi Madhuri Gogoi
Cover Page-



Content page

বঘুনাথ চৌধাৰীৰ কবিতাত বিয়াদ প্ৰবণতা /৯৭	
ড° সুবৰ্ণী মাধুৰী গগৈ	
যতীন্দ্ৰনাথ দুৱৰাৰ 'সোণোৱালী দেশ' /১০৭	
ড° নমিতা ডেকা	
শৈলধৰ ৰাজখোৱাৰ 'বিদায়-পৰত' /১১০	
পঞ্চানন হাজৰিকা	
ৰত্নকান্ত বৰকাকতিৰ 'বিশ্বহৰণ' /১১৮	
ড° শুভশ্ৰী কলিতা তালুকদাৰ	
নলিনীবালা দেৱীৰ 'পৰশমণি' /১২৬	
ড° বৈজয়ন্তী গোস্বামী	
ডিব্বেশ্বৰ নেওগৰ 'শাপমুক্তা' /১২৯	
ড° কল্পনা শৰ্মা কলিতা	
জ্যোতিপ্ৰসাদ আগৰৱালাৰ 'বিশ্বশিষ্টা' /১৩৪	
প্ৰাঞ্জল তালুকদাৰ	
অতুল চন্দ্ৰ হাজৰিকাৰ 'লালকিন্দ্ৰা' /১৪১	
পৰিমালা কোঁৱৰ	
বিনন্দচন্দ্ৰৰ 'হে জননী ভাৰতবৰ্ষ' আৰু ববীন্দ্ৰনাথৰ 'ভাৰততীৰ্থ'— এটি দুন্দুৰী আলোচনা /১৪৫	
ড° নীলমোহন ৰায়	
দেৱকান্ত বৰুৱাৰ কবিতা 'মনোৰমা' /১৫৪	
প্ৰিয়ংকা কাশ্যপ	
হেম বৰুৱাৰ 'মমতাৰ চিঠি' /১৬০	
মৌচুমী দেৱী	
অসমীয়া কাব্যধাৰাত ধীবেন দত্ত আৰু তেওঁৰ প্ৰগতিশীল কাব্য-চিন্তাৰ বেৰেণ্ড ড° কৈলাস দাস	

ৰঘুনাথ চৌধাৰীৰ কবিতাত বিষাদ প্ৰবণতা ড° সুবভী মাধুৰী গগৈ

১০০ প্ৰবন্ধনি :

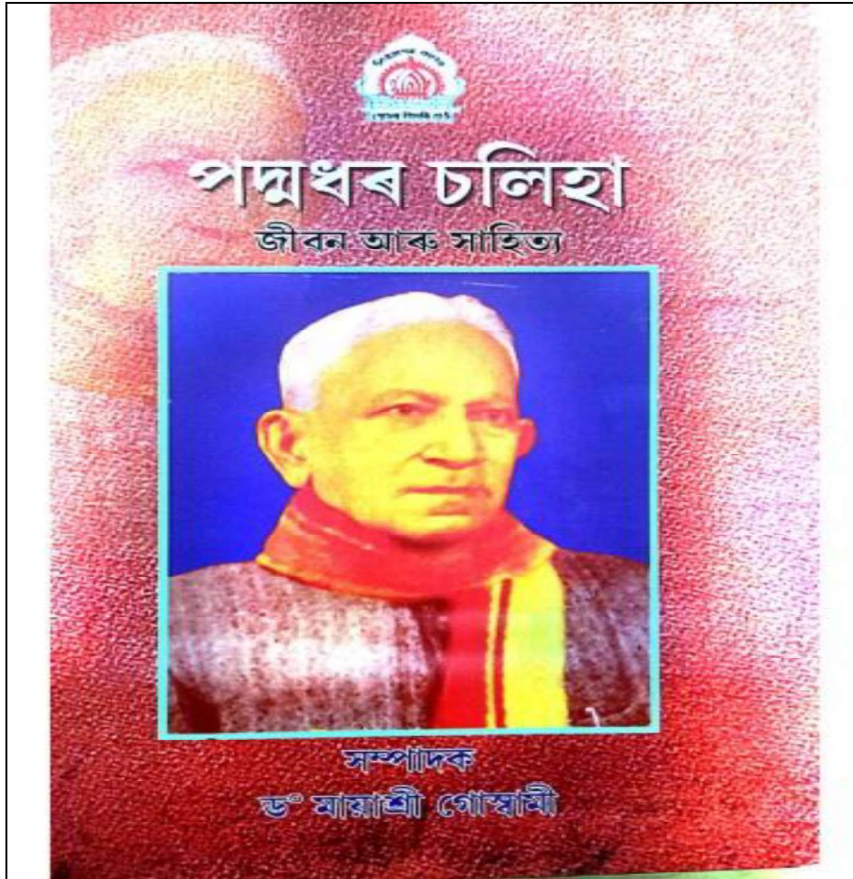
ৰোমাণ্টিক যুগৰ কবিতাৰ এক অন্যতম বিশেষত্ব হ'ল বিষাদ প্ৰবণতা। জাগতিক
সন্তৰৰ দুখ-বেদনা, হতাশা-নিৰাশাই ব্যথিত কৰা কবি হৃদয়ৰ আকুল অনুভূতিয়ে এই
শ্ৰেণীৰ কবিতাত প্ৰাণ লাভ কৰিছে। কবি হৃদয়ে সংসাৰ সাগৰত আনন্দ আৰু সুখামৃতৰ
বিকৰ্তে দুখ আৰু দুৰ্ভাগ্যৰ হলাহল পাণ কবিকলগা হোৱাত বেদনাৰু ভয় হৃদয়ৰ
ৰ্মপৰী/কাঁচৰ বিননি আৰু নিৰাশাৰ সুৰ কবিতাৰ যোগেদি প্ৰকাশিত হৈছে। জীৱন
যত্ন লাভ কৰা চৰম হতাশাবোধ, ব্যৰ্থতাৰ বোজাই দি যোৱা ক্লান্তি, অদৃশ্য নিয়তিৰ
হাতত হনুৰে পৰাজয় আৰু অসহায় অৱস্থা আদিৰ চিত্ৰই এই শ্ৰেণীৰ কবিতাত বিষাদপ্ৰবণ
ৰূপ হন লাভ কৰিছে। ৰোমাণ্টিক যুগত অসমীয়া কাব্যজগতত এনে ধৰণৰ বিষাদপূৰ্ণ
পেঁৱা বচনা কৰা কবিসকলৰ ভিতৰত ৰঘুনাথ চৌধাৰী আছিল অন্যতম।

ৰোমাণ্টিক পৰিমণ্ডলত ৰঘুনাথ চৌধাৰীৰ কবিতাত প্ৰাচ্য আৰু প্ৰাশ্চাত্য ভাৱনাৰ
সম্পূৰ্ণ সমন্বয় ঘটিছে। বিহগী কবি ৰূপে চিৰ পৰিচিত কবিজনৰ কবিতাত চৰাই, ফুল,
পৰ্বত-পাহাৰ, নৈ-নিজৰা আদি নৈসৰ্গিক জগতৰ চিত্ৰই প্ৰাধান্য লাভ কৰা দেখা যায়
চিও ভাৰতীয় দৰ্শন, ভগৱৎ চিন্তা, প্ৰেমভাৱনা, বৈবাগ্য চিন্তা আৰু বিষাদ প্ৰবণতাৰ
ইও অভিব্যক্তি হৈ আছে।

ইংৰাজ কবি কীটছৰ দৰে কবি চৌধাৰীয়ে প্ৰকৃতিৰ বুকুত অপূৰ্ণ সৌন্দৰ্য-ভাণ্ডাৰ
সংগ পালেও চৌধাৰী আছিল ইংৰাজ ৰোমাণ্টিক কবিসকলৰ প্ৰভাৱৰ পৰা মুক্ত। তেওঁৰ
কবিতাৰ প্ৰধান উপজীব্য প্ৰকৃতি যদিও চিন্তা-সৃষ্টিভংগী আৰু দৰ্শন সম্পূৰ্ণ ভাৰতীয়। এই
সংগত 'চৌধাৰীৰ সাহিত্য প্ৰতিভা' শীৰ্ষক গ্ৰন্থত 'চৌধাৰীৰ কবিতাৰ ধাৰা' বিষয়ক

Name of the author- Dr Surabhi Madhuri Gogoi

Cover page-



Content Page-

- > সাহিত্যৰ মাজেৰে বুৰঞ্জীৰ সন্দেশ : 'বংপুৰে কথা কয়'
ঋতগোপাল বৰুৱা/১৩০
- > পদ্মধৰ চলিহাৰ কাব্য পুথি 'শবাই' - এক চমু বিশ্লেষণ
ঋমাধৱ চন্দ্ৰ বৰুৱা/১৪৩
- > পদ্মধৰ চলিহাৰ 'পদুমণি' : এক বিশ্লেষণাত্মক আলোচনা
ঋড° সুবলি মাধুৰী গগৈ/১৫৮
- > পদ্মধৰ চলিহাৰ 'অসম সাহিত্য সভা'ৰ সভাপতিৰ অভিভাষণ : এক
আলোকপাত ঋড° কবৰী গগৈ/১৬৬
- > পদ্মধৰ চলিহাৰ 'অসমীয়া সাহিত্য আৰু বংপুৰৰ বৰঙণি'
ঋড° শান্তনা দুৱৰা সন্দিকৈ/১৮৭
- > প্ৰহসন ধৰ্মী নাটক 'নিমজ্ঞ' : এক ক্ৰিষ্ণিৎ আভাস
ঋস্বতিকা বৰকাকতি/১৯৭
- > পদ্মধৰ চলিহাৰ ধেমেলীয়া গীতি-নাট্য 'কেনে মজা' আৰু আজিৰ
সমাজ ঋগীতাঞ্জলি বড়া/২০১
- > পদ্মধৰ চলিহাৰ কবিতা 'জীৱন দৰ্শন' : এটি আলোচনা
ঋআদিভা হাজৰিকা/২০৭
- > জাতীয় প্ৰেমমূলক কবিতা আৰু পদ্মধৰ চলিহাৰ স্বদেশ প্ৰেম
ঋঅটলান্টিকা বৰুৱা/২১৩
- > লেখক পৰিচিতি/২১৯

পদ্মধৰ চলিহাৰ 'পদুমণি' :
এক বিশ্লেষণাত্মক আলোচনা

—ড° সুবতি মাধৱী ৰু

অৱতৰণিকা :

'ফুলনি' আৰু 'শবাই' শীৰ্ষক কাব্যগ্ৰন্থৰ যোগেদি অসমীয়া পঠন-বিভিন্ন কবিতাৰ সোৱাদ দিবলৈ যত্ন কৰা 'পদ্মধৰ চলিহা' অসমীয়া ৰাজ্যত 'পদুমণিৰ কবি' ৰূপেহে চিৰপৰিচিত। সমগ্ৰ জীৱন অসমীয়া জাতি সাহিত্য আৰু সংস্কৃতিৰ বিকাশত আত্মনিয়োগ কৰি তেখেত শিক্ষক, কবি, নাট্যকাৰ, অভিনেতা, গীতিকাৰ, গায়ক আৰু এজন সমাজ সংগঠক ৰূপে আত্মপৰিচয় ৰাখি যাবলৈ সক্ষম হৈছিল।

চলিহাৰ একুশি এটা কবিতাৰ সংগ্ৰহ পদুমণি। পদুমণিত সৰ্ববিধ কবিতা সম্পৰ্কে দুৰ্গেশ্বৰ শৰ্মাৰ এটি বক্তব্য প্ৰতিধানযোগ্য— 'পদুমণিত সন্নিবিষ্ট কেইটিমান কবিতা স্থিতিমধ্যে আকাশবাণীৰ গুৱাহাটী কেন্দ্ৰৰ যোগেৰে প্ৰচাৰিত হৈছিল আৰু আন কেতবোৰ কবিতা প্ৰকাশ পাইছিল— অৰুণ, অৰ্ণৱ, জয়ন্তী, সাদিনীয়া অসমীয়া, ৰামধেনু নামনাই, কাৰ্চিজোন আৰু সমাজ অৰ্ণৱ আলোচনী কাকতৰ পাতত।' (অসমীয়া সাহিত্যৰ সমীক্ষা, পৃষ্ঠা ৪৪, প্ৰথম তাৰিখ : মাৰ্চ ১৯৬৭)

১.০০ কবিতাৰ বিশ্লেষণ :

পদুমণিৰ কবিতাকেইটি অধ্যয়ন আৰু বিশ্লেষণ কৰি আমি চাৰিটা শ্ৰেণীত বিভক্ত কৰিব পাৰোঁ—

১.০১ স্বদেশ প্ৰেমমূলক কবিতা

১৫৮||

—পদ্মধৰ চলিহা (জীৱন আৰু সাহিত্য)

Amit Kumar Pradhan

<https://onlinelibrary.wiley.com/doi/epdf/10.1002/9781119633174.ch13>

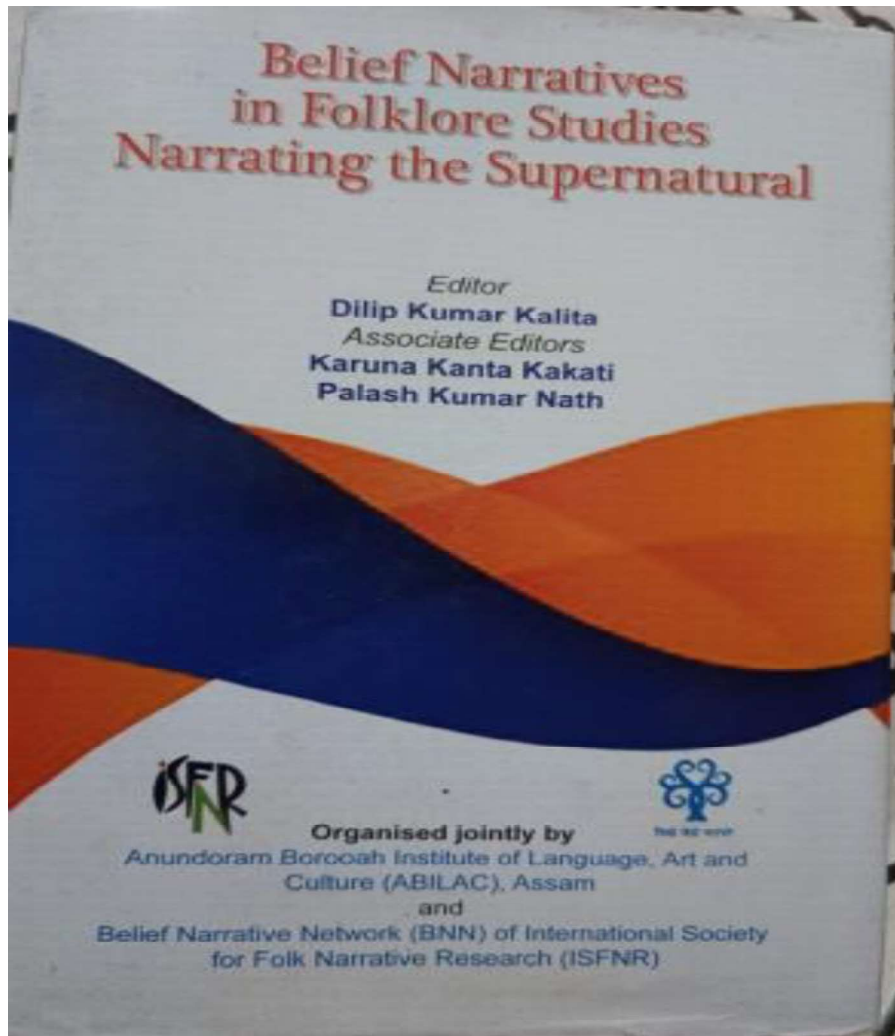
Amit Kumar Pradhan

https://link.springer.com/chapter/10.1007/978-981-15-2156-0_29

Amit Kumar Pradhan

https://link.springer.com/chapter/10.1007/978-3-030-45669-6_1

Name of the author/teacher- Daijee Kalita
Cover Page-



Content Page-

<i>Belief Narratives in Folklore Studies: Narrating the Supernatural</i>	7
To Believe or Not to Believe: A Study of the Folk Beliefs of the Nagas in the novels of Easterine Kire Iralu Rupam Gogoi.....	284
Traditions of Beliefs in the Supernatural Power of Ancestors among the General people Sarmistha De Basu.....	309
Ball: Dravidian Beliefs and Practices Balakrishna B.M. Hosangadi.....	324
Role of Ojapali in Transmitting Manasa Myth among the Common People of Assam Daijee Kalita Dilip Kumar Kalita	341
Sacrificial and Oral Narratives Associated with Post Cremation Stone Erection Ceremony among the Karbis. Utpala Das Dwipen Bezbaruah.....	350
Conflicting Context in Beliefs and Religions among the Karbis of Kaziranga National Park Anamika Mahanta.....	366
In the Name of... Biate Swearing, Beliefs and Practices Lalfani Durpui.....	376
Conspiracy Theories as Urban Lore: Legends with a Paranoid Matrix Suzana Marjanić	385
Folk Narratives Exemplifying the Supernatural Belief, Splendour, and Extraordinary Giftedness in Braj (India) Tulika Chandra.....	406

First Page of the publication-



Name of the author/teacher- Krishna Das
Cover Page-



Edited by: Laxmi
Vijay
Sudhakar



Dr. Krishna Das, Associate Prof., (Ph.D. in Education) in
Education & Teaching, Faculty of Education, Jammu
University, Jammu, India. He is also a visiting
faculty in various universities in India and
abroad. He has published several research papers
in various journals and edited books. He is also
a member of the International Association of
Educational Research (IAER), Jammu.

Covid-19 in Indian Society: Social Sciences Perspectives



Content Page-

Table of Contents

Chapter No.	Name of Chapter	Sub-chapters	Page No.
	List of Tables	--	5
	List of Figures	--	6
	Preface	--	7-9
	Introduction	--	10-18
Perspectives on Covid-19			
1.	Covid-19 from Psychological Stance: A Remedial Perspective	Introduction/ Related Studies/ Proposed Management Model for Non infected Cases/ Method/ Results/ Discussion/ Conclusion	19-28
2.	Philosophising the Pandemic: A Phenomenological Exploration of Human Condition in Covid-19 Pandemic	Introduction/ Phenomenological exploration of Covid-19 pandemic/ Conclusion	29-33
3.	Role of emotional Intelligence in coping with stress during pandemic: A conceptual study	Introduction/ Introduction to Emotional Intelligence/ Introduction to the Concept of Stress/ Impact of Quarantine on Mental Health/ Role of Emotional Intelligence in Managing Stress/ Conclusion/ Limitation and Future Scope	34-42
4.	Covid-19 and Emergence of a New World Order	Introduction/ Emergence of Bi-Polarity in world politics/ Group of D – 10 countries/ Expansion of G – 7/ Quad Grouping/ Five eyes network/ Conclusion	43-50
5.	Resurgence from Covid-19: Connecting Communicable Non-communicable Disenses through Nutrition Education focusing on Anaemic Adolescent Girls	Introduction/ Objectives and Methodology of the study/ Results/ Discussion/ Intervention Strategies/ Key factors for resurgence Covid-19 for Communicable and Non Communicable Disease/ Conclusion	51-69
6.	GIS Mapping of Public Open-Space Areas for Temporary Quarantine/ Shelter Camp set-up in Dhemaji District of Assam	Introduction/ Methodology/ Results and Discussion/ Conclusion	70-82
7.	Characterisation of Corona Virus Spread	Introduction/ Definitions/ Oscillatory Response: Virus Natural Frequency (ν_{nf})/	83-107

First Page of the publication-

Chapter – 6

GIS Mapping of Public Open-Space Areas for Temporary Quarantine/Shelter Camp Set-Up in Dhemaji District of Assam

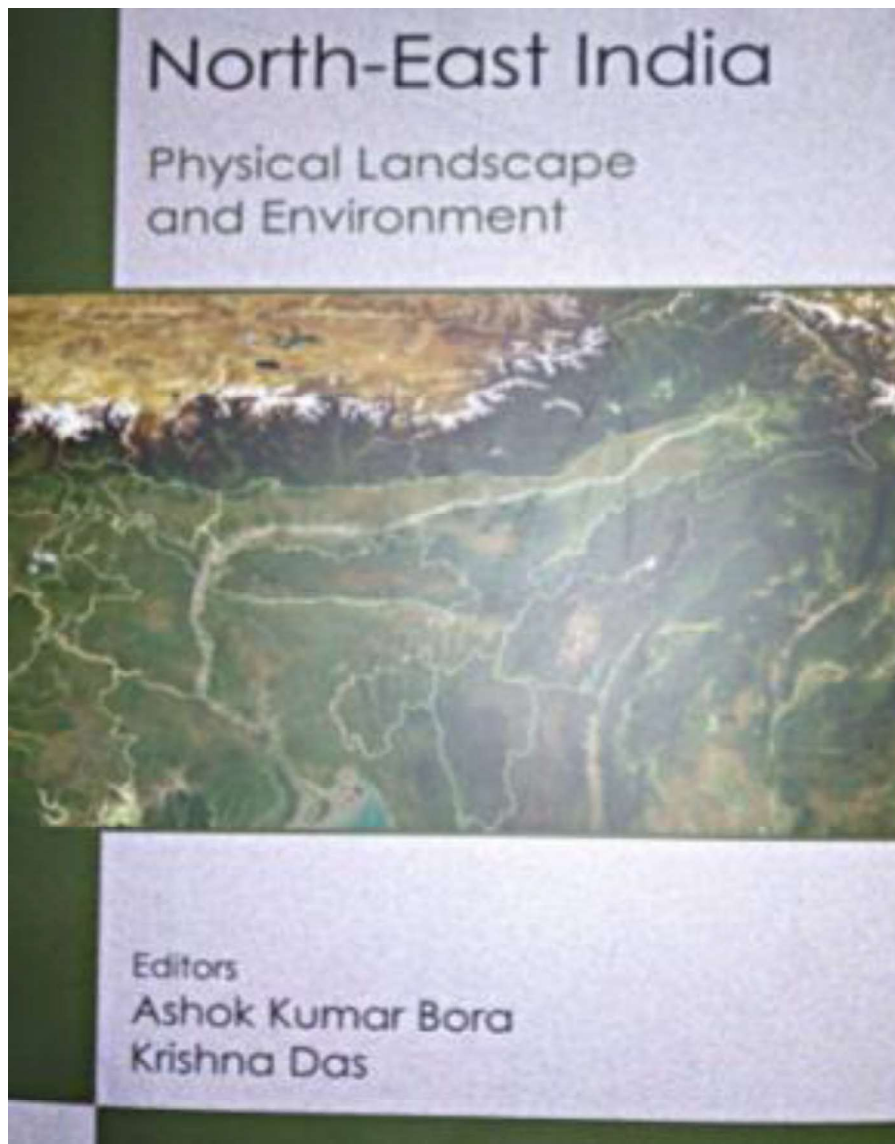
Krishna Das

Dept of Geography, Pragjyotish College, Guwahati, Assam

Abstract

In an emergency or disaster situation, temporary shelter camps are important for people affected by natural hazards or disease pandemic situation. For temporary quarantine or shelter camp set-up, the public open-space areas are considered being suitable. Open community event fields, open institutional playgrounds, public open grounds, governmental open grounds are generally categorized as public open-space areas. In the recent and ongoing Covid-19 disease pandemic, the Assam state government has also been choosing public-open space areas for establishing temporary quarantine centres for the affected people. Besides, the Covid-19 disease pandemic, frequent flood hazard, especially during monsoon season, also affects thousands of people every year in Assam and particularly in Dhemaji district of the state. The people affected by flood hazard take temporary shelter in flood relief camps set-up by the government administration during the hazard period. As the Dhemaji district of Assam is a flood vulnerable district, and the reported cases of Covid-19 affected people are also slowly increasing in the district, hence, if the probable impact from both flood hazard and Covid-19 disease rises then there would be more requirement of temporary quarantine or shelter camps in the district. For this purpose, public-open space areas of the district would be chosen for temporary quarantine or shelter camps by the district administration. Therefore, this study has been carried out to identify the public-open space areas in Dhemaji district. This study incorporates Geographic Information System (GIS) for identification and mapping of public open-space areas of the district using *high-resolution Google satellite imagery*. These public open-space areas of the district are selected following two pre-defined suitability criteria- the public open-space areas should be within 10 km radius from the major market centres of the district, and these open-space areas should also come under 5 km buffer zone from the major road networks of the district. Adopting these two criteria in the GIS environment, the study has identified and mapped 20 public open-space areas with the 32-hectare geographical area in Dhemaji district of Assam. The study has been found suitable for spatial decision-making process using GIS tools and this study will help the policymakers and

Name of the author/teacher- Krishna Das
Cover Page-



Content Page-

Contents

<i>Preface</i>	-	vii-ix
<i>Profile of Professor Dalal Chandra Goswami</i>	-	xi-xii
<i>List of Figures</i>	-	xv-xvii
<i>List of Tables</i>	-	xix-xx
<i>List of Contributors</i>	-	xxi-xxii
1. Physiography and Terrain Characteristics of North-East India - <i>Krishna Das, Ashok Kumar Bora</i>	-	1-19
2. Significance of the Shillong Plateau (North-East India) in the Palaeogeographic Reconstruction of Gondwana Supercontinent - <i>Amalya Chandra Majumdar, Pritom Borah</i>	-	20-28
3. Climate of North-East India - <i>H. J. Szymielek</i>	-	29-39
4. Soils of North-Eastern Region- Problems and Potentials - <i>Ujal Baruah</i>	-	40-70
5. Glacial Environment in North-East India of the Eastern Himalaya - <i>Ujal Deka Baruah, Pritom Chand, Anup Saikia, Nishree Mili</i>	-	71-86
6. River Basins of North-East India - <i>Rana Sarmah</i>	-	87-107
7. Water Resources of North-East India - <i>Ashok Kumar Bora, Debashree Borah</i>	-	108-127
8. Brahmaputra Basin in North-East India: A Fluvio-Glacio-geomorphic Perspective - <i>Jogendra Nath Sarma</i>	-	128-142
9. Flood Hazard Mitigation in Brahmaputra Valley, India - <i>Manik Kar</i>	-	143-155
10. Cultural Adaptation in the River Islands of the Brahmaputra, Assam - <i>Abani Kumar Bhagabati</i>	-	156-166
11. Wetlands of the Brahmaputra Floodplain: Identified Threats, Conservation and Management Issues - <i>Dhrubajyoti Saharialak</i>	-	167-178
12. Rural Hydrology in Brahmaputra Floodplain, Assam - <i>Nityananda Deka, Manush Bhuyan</i>	-	179-209

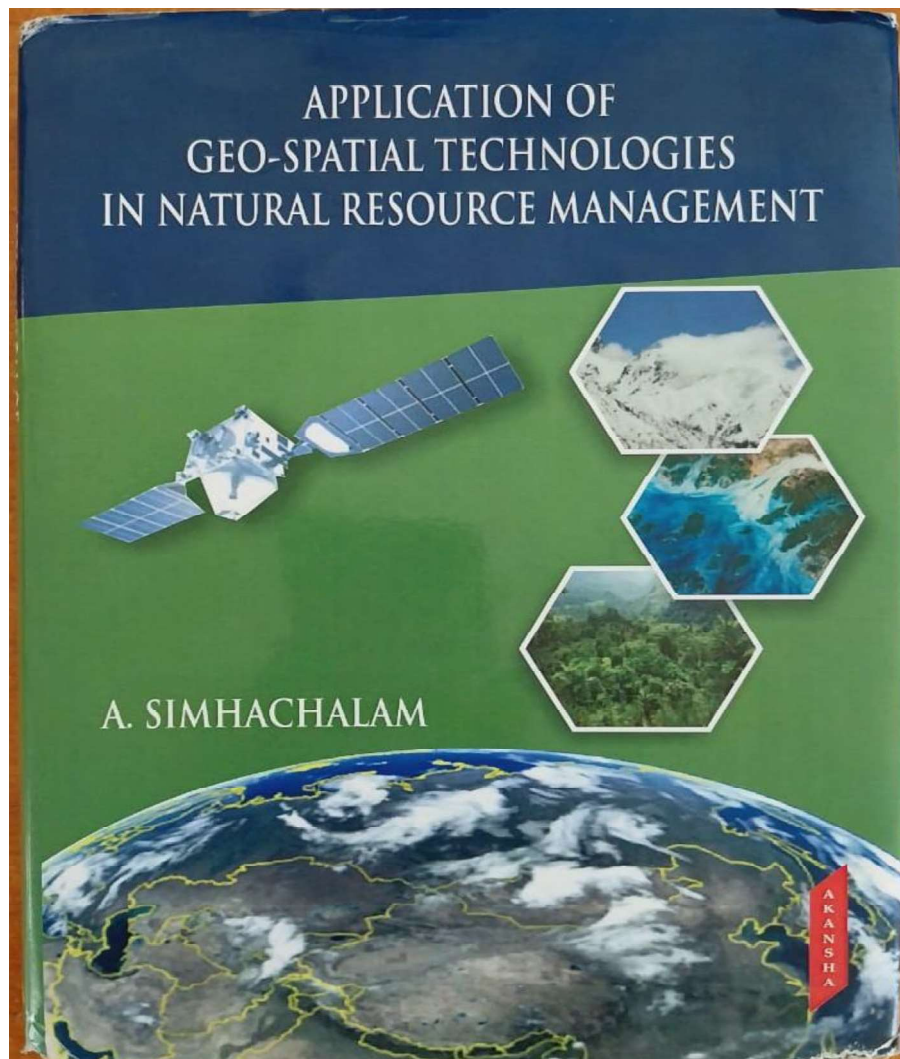
Physiography and Terrain Characteristics of North-East India

*Krishna Das
Ashok Kumar Bora*

Introduction

Geographically, North-East India stands in a unique location with interesting diversities in terms of geology, physiography, biodiversity, society and culture. North-East India is situated in the north-eastern corner of India comprising Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. North-East India is often called a region of seven sister states. The region occupies a strategic position as it is connected to the Indian mainland with a narrow corridor (also known as chicken's neck) in West Bengal squeezed between Nepal and Bangladesh (Nandy, 2014). Physiographically, North-East India forms a compact block of mountains, hills, plateaus and large valley plains spread over the contiguous seven sister states (Chatterjee, 1947; Bhattacharyya, 2005; Dikshit & Dikshit, 2014). Terrain set-up of North-East India is complex in nature with highly rugged to nearly level terrain condition. Approximately 70 per cent of the topography in North-East India is rugged and undulating, while 30 per cent is plain in nature (Bora, 2015). Such unique physiographic and terrain make-up of North-East India acts as a favourable abode for some geographic aspects, e.g. natural resource, biodiversity, eco-tourism, cultural diversity, etc. and unfavourable in terms of accessibility, permanent human settlement, communication, etc. In order to have a fruitful geographic understanding of the nature of topography of the region, an attempt has been made here to describe the physiographic

Name of the author/teacher- Pradip Chandra Kalita
Cover Page-



Content Page-

16. Application of Geo-spatial and Attribute Data for Analysis of Rainfall Trend during Twentieth Century (1901-2016): Observations from Purulia District, West Bengal, India	186
<i>Arindam Sarkar</i>	
17. Above Ground Biomass Estimation of Tree Using Remote Sensing and GIS in Netarhat Forest Area of Jharkhand	210
<i>Kumari Lalita, R. B. Sah, Om Kashyap, Obaidullah Ehrar</i>	
18. Application of Open-Source Geospatial Tools for Cropland Mapping in Brahmaputra Valley, Assam	224
<i>Krishna Das, A. Simhachalam, Ashok Kumar Bora</i>	
19. LULC Changes and LST Dynamics in Davangere City, Karnataka India: Inferences from Landsat Data	235
<i>Suresh S Dodamani, Sharath Raj B, Ali Raza Moosvi</i>	
20. Drainage Morphometry analysis for Sustainable Urban Development using GIS	246
<i>Rakesh Kumar Sarmah, Santanu Sarma</i>	
21. Mapping and Change Analysis of Wetland using Geospatial Technology: A Case Study of Khamranga Wetland, Chandrapur, Kamrup M, Assam	254
<i>Jayanta Goswami, Pradip Chandra Kalita, A. Simhachalam</i>	
22. Watershed Delineation of Tuni River Using Arc Hydro Model	262
<i>Bharati Gogoi</i>	
23. Assessment of NRM works Under PMKSY Projects Using Geoinformatics: A case of PMKSY Project V, Mon District, Nagaland	272
<i>A. Simhachalam, Namita Sharma, Jayanta Goswami, SK Ghosh</i>	
24. A Geo-spatial and Hydrodynamic Analysis on the Influence of Flow Diverting Structures in a Natural Channel: A Case Study on Brahmaputra River near Majuli	287
<i>Anupal Baruah, Dhruba Jyoti Sarmah, Arup KR Sarma</i>	
25. Geo-ICT applications in monitoring of NRM works under MGNREGS: A Case of Golaghat District, Assam	298
<i>Sanjit Kumar Ghosh, Simhachalam Alajangi</i>	

First Page of the publication-

21

**Mapping and Change Analysis of
Wetland using Geospatial Technology:
A Case Study of Khamranga Wetland,
Chandrapur, Kamrup M, Assam**

Jayanta Goswami, Pradip Chandra Kalita, A. Simhachalam

ABSTRACT

Wetlands are very important part of natural environment. They are the habitat for various flora and fauna. Wetland helps to reduce the impact of flood also. But in the present world, wetlands are drying day by day due to the increasing of population and anthropogenic activities of human. The freely available Landsat imagery has been widely used in extracting spatial and temporal information about wetlands (Kumar et al. 2020). From the literature, it has been found that wetland has declined all over the globe over the past few decades. Thus, this study has been carried out to know the present status and changes in the past 30 years of the Khamranga Wetland of Assam, India which is situated very near to the Guwahati city. In this study, Landsat TM & OLI has been used. Field verification shows that the ecosystem is facing both natural and anthropogenic threats. Construction of houses, increasing population near to the wetland, fishing practices, digging of pond in wetland for fish culture by surrounding people, invasive species are the main cause of this

**Name of the author/teacher- Dr Priti Baishya
Cover Page-**

Peer reviewed Journal Impact Factor: 7.265 ISSN-2230-9578

Journal of Research and Development

A Multidisciplinary International Level Referred Journal

June-2021 Volume-11 Issue-21

***Changing Perspectives of Language, Literature,
Science and Social Science***

Chief Editor
Dr. R. V. Bhole
"Ravichandram" Survey No-101/1, Plot
No-23, Mundada Nagar, Jalgaon (M.S.)

Dr. Mahadeo Walunj
Principal
College of Arts, Bhigwan, Indapur, Dist.
Pune Maharashtra

Dr. Ranjan Kalita
Principal
Rangapara College, Amaribari,
Rangapara, Assam

Executive Editors
Dr. Prashant Chavare, Rakesh Ch. Sarkar, Mr. Santosh P. Mane

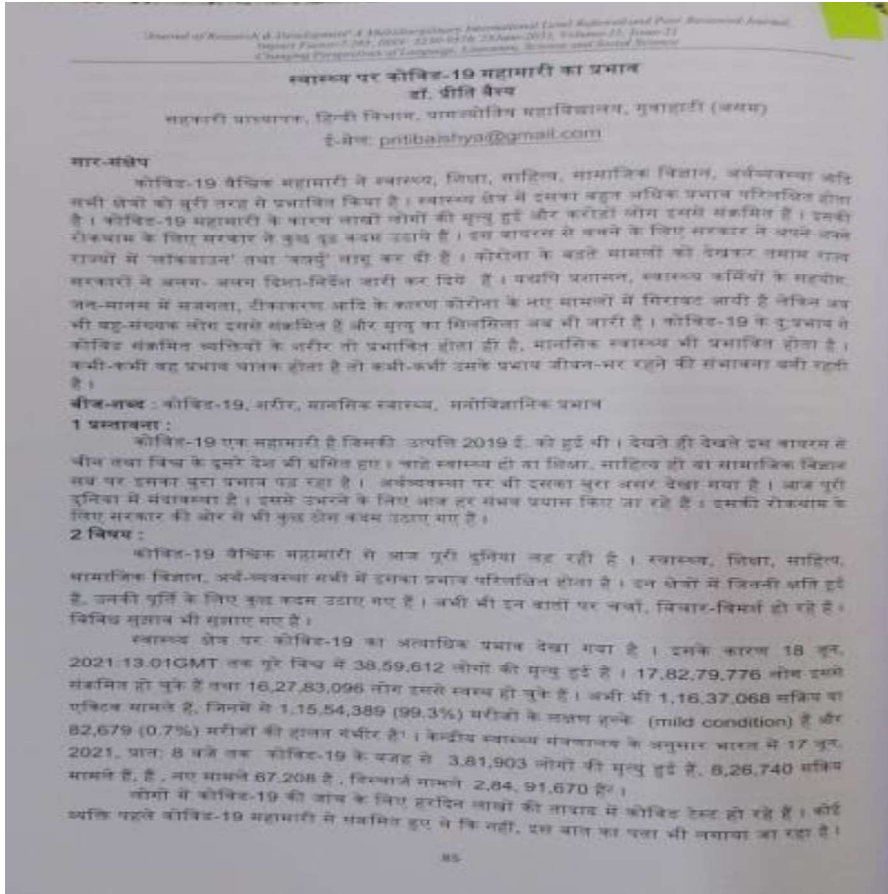
Address
"Ravichandram" Survey No-101/1, Plot, No-23,
Mundada Nagar, Jalgaon (M.S.) 425102



Content Page-

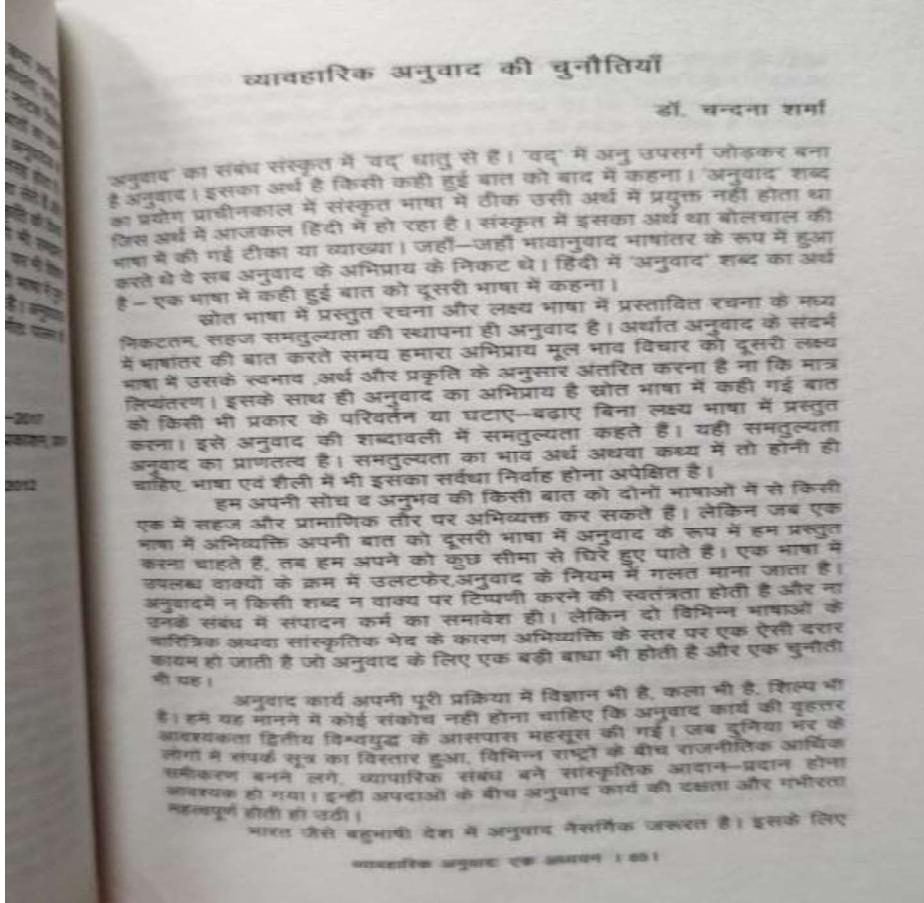
Journal of Research & Development in Multidisciplinary International Social, Behavioral and Pure Research Journal Impact Factor-7.267, ISSN: 2380-8078, Volume-2021, Volume-22, Issue-23 © Bangla University of Language, Literature, Science and Social Science			
22	स्वास्थ्य पर कोविड-19 महामारी का प्रभाव	डॉ. प्रीति शैष्य	85-88
23	शिक्षाच्या सामाजिक समस्या व शिक्षाच्या सुवर्णीकृत्यासाठी केलेले उपाय व वाक्ये	डॉ. प्रभाकर बाबुराव ठाकरे	88-93
24	कोविड-19 महामारीचे भारतीय सामाजिक विज्ञानावरील परिणाम	प्रा. कांजले शिवाजी देवडा	94-97
25	'कोविड-19' चा जनजीवनवावरील प्रभाव आणि परिणाम.	प्रा. डॉ. मधुकर गणेश भोकरली	98-101
26	कोविड-19: शिक्षण समस्ये, प्रादुर्भाव आणि परिणाम, वर्षे 2020	प्रा. डॉ. विमल विठ्ठल	102-108
27	राष्ट्रवादी नेते छ. राजे शाहू महाराज	डॉ. विमल अर जाधव	109-110
28	'श्रीमान योगी' काव्यरी व तिची 'परकटोप' व 'श्रीमान योगी' हे नाट्यकाव्ये	प्रा. डॉ. मेळके देविदास साधु	111-116
29	आधुनिक कुक्कुटपालन व्यवसायाचा अभ्यास	डॉ. शकुंतला माने	117-123
30	नांदेड विभागातील भुईमूग पीकाला जैवोदक अभ्यास	प्रा.डॉ. सु. एम. कावडे	123-125
31	साधन शैली शिक्षकांसाठी "उन्नत शैली समृद्ध लेखकरी" मोटिवेशनल राबविण्यात येणाऱ्या सामकीय योजना.	डॉ. लडू शिवायाम कावडे, डॉ. साळवे जयश्याम मोतीराम, प्रा. प्रताप बाबुराव शिंदे	126-130
32	लोककला आणि लोकजीवन	प्रा. शिवाजी कावडे	131-133
33	घाण आणून जनसामान्यांची जखमातून परतवण्यासाठी उल्हाडी	डॉ. जनार्दन परकाळे	134-136

First Page of the publication-

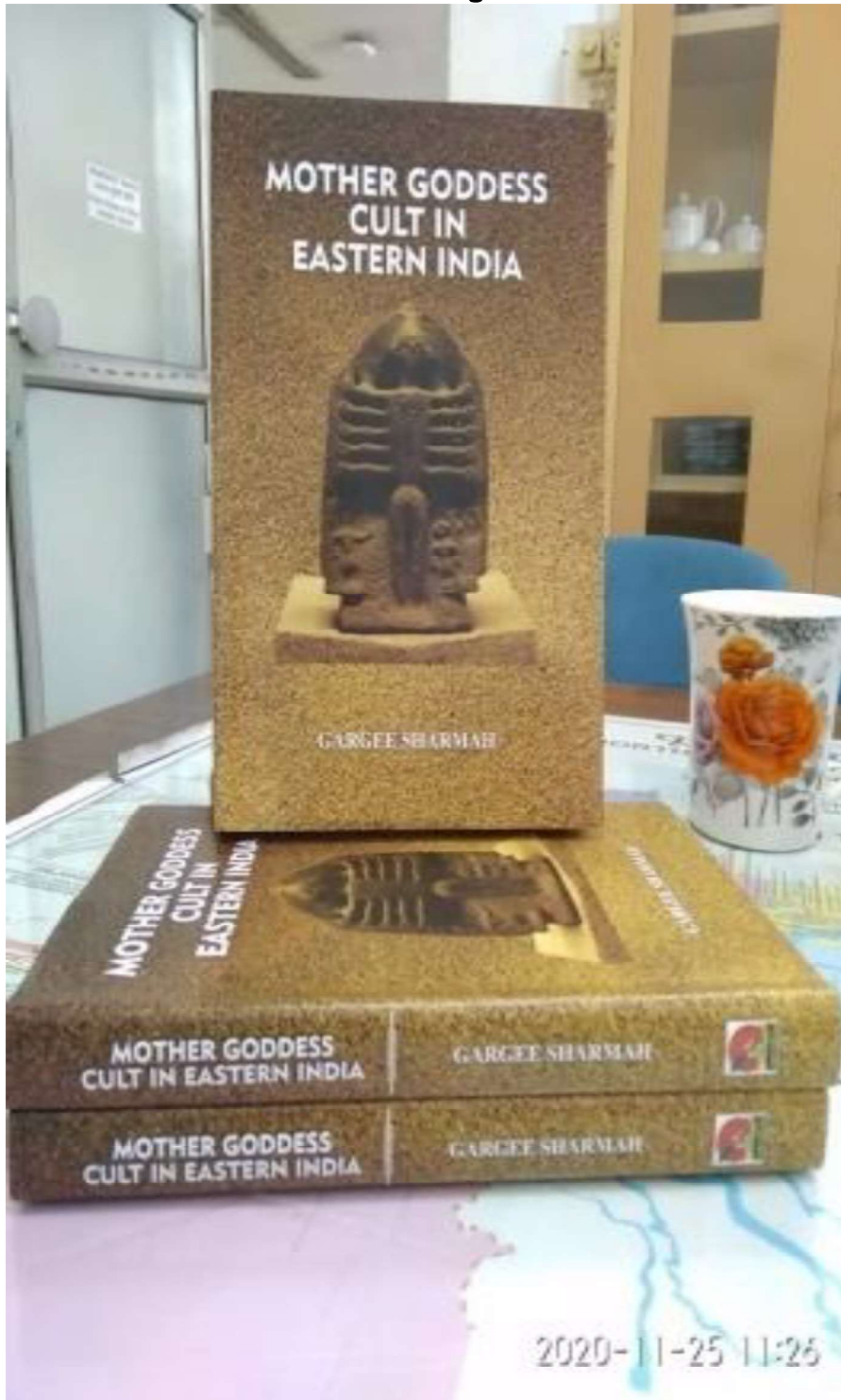


Name of the author/teacher- Dr Chandana Sarma

First page of the publication-



**Name of the author/teacher- Dr Gargee Sharmah
Cover Page-**



Conent page

CONTENTS

1. Foreword	vii
2. Preface	1
3. Chapter-I: Reverence to Mother: The Context	5
4. Chapter-II: Puranic Reconstruction of Mother Goddess	33
5. Chapter-III: Mother Goddess in Epigraph	65
6. Chapter-IV: The Tantric Goddess	79
7. Chapter-V: Mother Goddess in Iconography	111
8. Chapter-VI: Reconstruction of the 'Construct'	163
9. Bibliography	177
10. Glossary	201

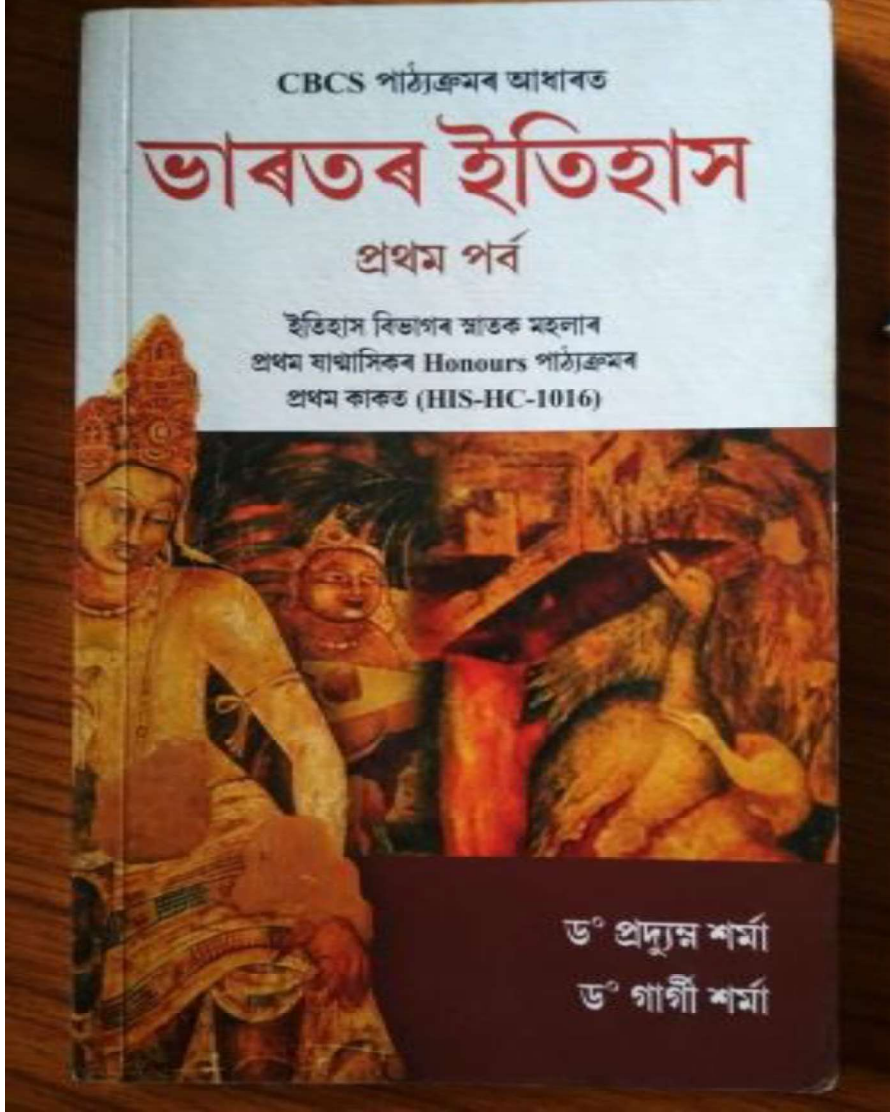
First page of the publication-

REVERENCE TO MOTHER: THE CONTEXT

Attempt to place the worshipping of a goddess as mother in historical timeline is not possible because of many reasons. Primary among them is that the Mother Goddess Cult has been a deep-rooted religious and historical phenomenon that evolved through the ages among humans from beyond the known history transgressing all geographical boundaries of the world. The concept of religion *per se* is relatively recent and all religious practices are founded in the fear and reverence of the unknown, the supernatural or the divine and the universal human instinct of survival revolves round this.

Various religious practices pivot around ritualistic worship of deities; the prominent among all of them had always been the Mother Goddess. This was apparently because the mother represents the awe-inspiring, originally unexplainable, natural and universal phenomenon of fertility and reproduction. Before the advent of modern science, procreation was something human beings were aware of, but were unable to either control or explain. And such feelings were universal. That is why worshipping Mother Goddess too is universal.

Name of the author/teacher- Dr Gargee Sharmah
Cover Page-

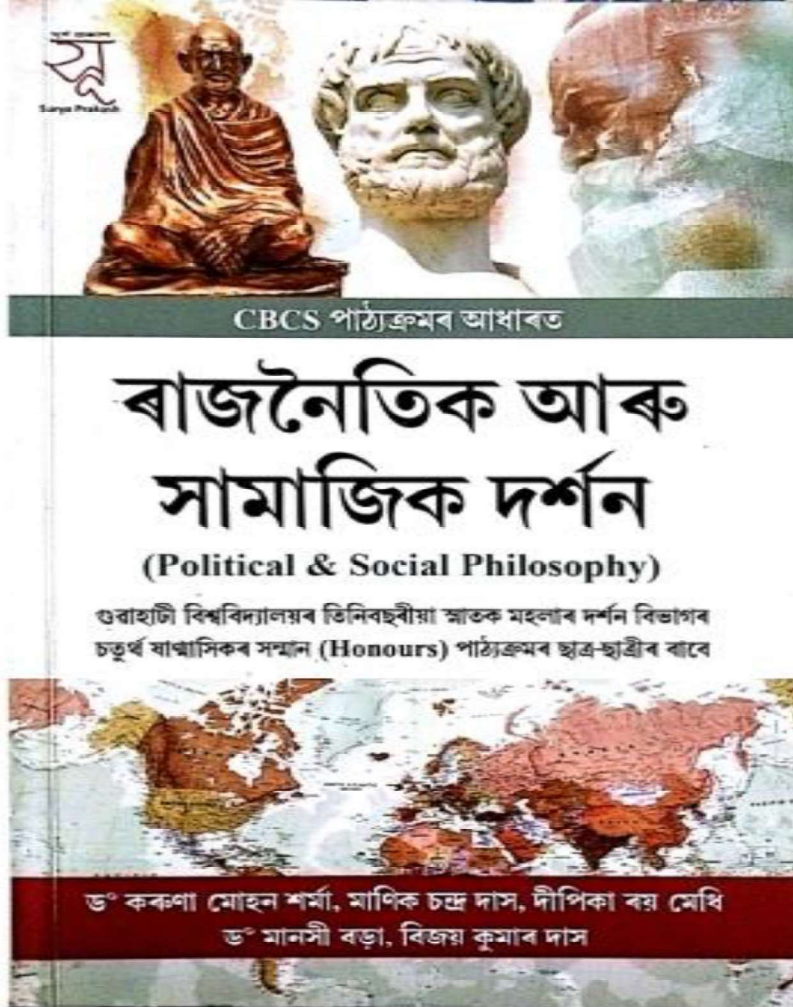


Content page

সূচীপত্ৰ

প্ৰথম অধ্যায় :	প্ৰাচীন ভাৰতীয় ইতিহাসৰ পুনৰ্নিৰ্মাণ প্ৰাক্কথন ইতিহাস সম্পৰ্কে প্ৰাচীন ভাৰতীয় ধাৰণা ইতিহাসৰ পুনৰ্নিৰ্মাণৰ সমল আৰু আহিলাসমূহ প্ৰত্নতাত্ত্বিক সমল সাহিত্যগত সমল ইতিহাসৰ ব্যাখ্যা (লিংগ, পৰিবেশ, প্ৰযুক্তি আৰু অঞ্চলভিত্তিক) অধ্যায়টোৰ মনত ৰাখিবলগীয়া কথাবোৰ প্ৰসঙ্গপুথি প্ৰশ্নাৱলী	১৩-৫৬
দ্বিতীয় অধ্যায় :	প্ৰাগ্-ঐতিহাসিক চিকাৰী আৰু খাদ্য সংগ্ৰাহকসকল প্ৰাক্কথন ভাৰতত প্ৰস্তৰযুগৰ শ্ৰেণী বিভাজন নিম্ন, মধ্য আৰু উচ্চ প্ৰত্নপ্ৰস্তৰ যুগ প্ৰত্নপ্ৰস্তৰ যুগৰ কলা, চিত্ৰ আদি প্ৰত্নপ্ৰস্তৰ যুগৰ আহিলা নিৰ্মাণ কৰা স্থানসমূহ প্ৰত্নপ্ৰস্তৰ যুগৰ চিকাৰী আৰু খাদ্যসংগ্ৰাহক সকলৰ জীৱন ধাৰণা প্ৰণালী মধ্য প্ৰস্তৰ যুগ মাইক্ৰলিথ মধ্যপ্ৰস্তৰ যুগৰ স্থানসমূহ আৰু এই যুগৰ সংস্কৃতি মধ্যপ্ৰস্তৰ যুগৰ কলা	৫৭-৮০

Name of the author/teacher- Dr Dipika Roy
Cover Page-



Scanned by CamScanner

CBCS পাঠ্যক্রমৰ আধাৰত

ৰাজনৈতিক আৰু সামাজিক দৰ্শন

(Political & Social Philosophy)

গুৱাহাটী বিশ্ববিদ্যালয়ৰ তিনিবছৰীয়া স্নাতক মহলাৰ দৰ্শন বিভাগৰ
চতুৰ্থ ষাণ্ঠাসিকৰ সন্মান (Honours) পাঠ্যক্রমৰ ছাত্ৰ-ছাত্ৰীৰ বাবে

কাকত : PHI-HC-4106

ড° কৰুণা মোহন শৰ্মা

প্ৰাক্তন সহযোগী অধ্যাপক আৰু মুৰব্বী, দৰ্শন বিভাগ
বজালী মহাবিদ্যালয়, পাঠশালা

মাণিক চন্দ্ৰ দাস

সহযোগী অধ্যাপক আৰু প্ৰাক্তন মুৰব্বী দৰ্শন বিভাগ
নিৰ্মল হাটৈ মহাবিদ্যালয়, পাটোছাৰকুছি

দীপিকা বয় মেধি

সহযোগী অধ্যাপিকা আৰু মুৰব্বী, দৰ্শন বিভাগ
প্ৰাগজ্যোতিষ মহাবিদ্যালয়, শান্তিপুৰ, গুৱাহাটী

ড° মানসী বড়া

সহকাৰী অধ্যাপিকা আৰু মুৰব্বী, দৰ্শন বিভাগ
মহাপুৰুষ শ্ৰীমন্ত শংকৰদেৱ বিশ্ববিদ্যালয়

বিজয় কুমাৰ দাস

সহকাৰী অধ্যাপক আৰু মুৰব্বী, দৰ্শন বিভাগ
বৰভাগ মহাবিদ্যালয়, নলবাৰী



সূৰ্য প্ৰকাশ

পাৰলক্ষ্য, গুৱাহাটী-১

Content Page-

৬৯-১২৮

গোটি ১ ২

সামাজিক মতবাদ

অসামাজিক মতবাদ বা নৈবাজ্যবাদ

নৈবাজ্যবাদের প্রাথমিক ধারণাসমূহ

নৈবাজ্যবাদের বৈশিষ্ট্য

সমালোচনা

মূল্যাংকন

সামাজতন্ত্রবাদ

সামাজতন্ত্রবাদের কেইটামান সংজ্ঞা

সামাজতন্ত্রবাদের সাধনমর্ম

সামাজতন্ত্রবাদের প্রধান বৈশিষ্ট্য

সামাজতন্ত্রবাদের দর্শন

সামাজতন্ত্রবাদের বিভিন্ন প্রকার

কালনিক সামাজতন্ত্রবাদ

বৈজ্ঞানিক সামাজতন্ত্রবাদ

বৈজ্ঞানিক সামাজতন্ত্রবাদের মূল্যায়ন

মার্ক্সীয় সামাজতন্ত্রবাদের বিষয়ে বিভিন্ন বিকল্প সমালোচনা

সামাজতন্ত্রবাদের শ্রেণী বিভাগ

গণতান্ত্রিক সামাজতন্ত্রবাদ

সামাজতন্ত্রবাদের সপক্ষে যুক্তি

সামাজতন্ত্রবাদের বিপক্ষে যুক্তি

ব্যক্তিস্বাতন্ত্র্যবাদ আৰু সামাজতন্ত্রবাদের পাৰ্থক্য

মার্ক্সবাদ

মার্ক্সবাদের দার্শনিক ভিত্তি

ঐচ্ছিক বস্তুবাদ

সমালোচনা

বিচ্ছিন্নতা তত্ত্ব

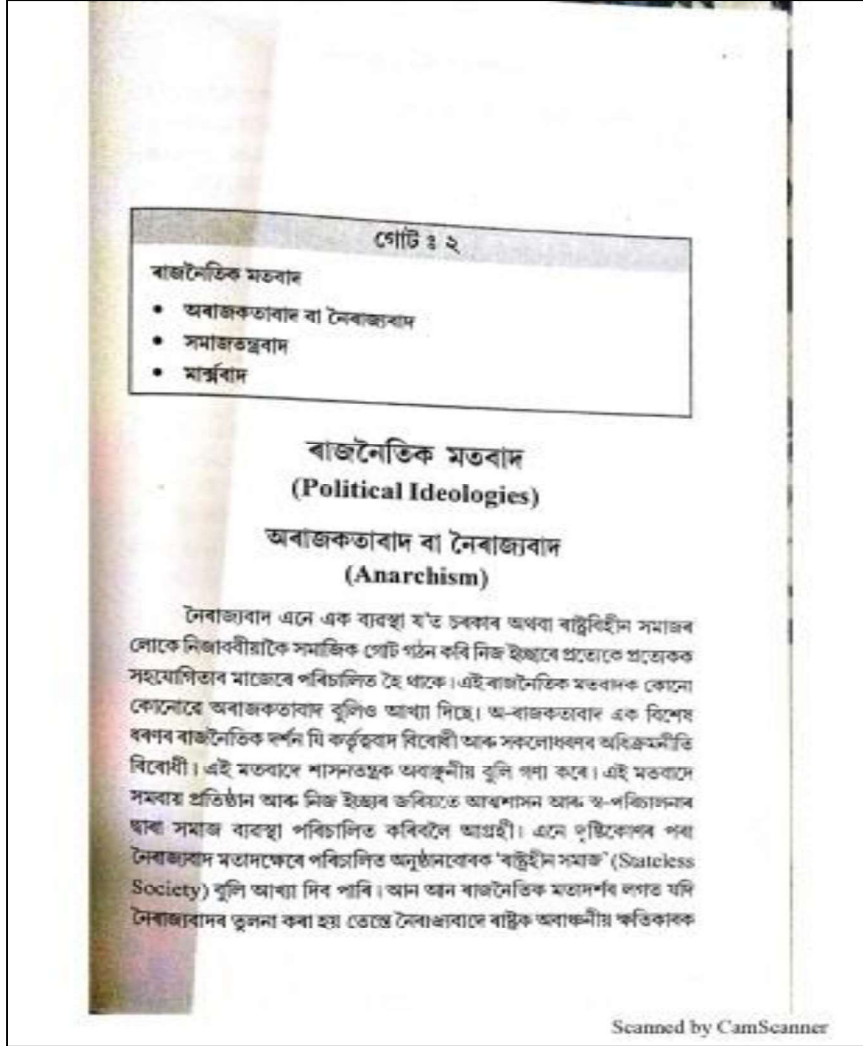
মার্ক্সীয় শ্রেণী সম্পর্কীয় ধারণা

Scanned by CamScanner

গোটৰ লিখক

গোট : ১	মাণিক চন্দ্ৰ দাস
গোট : ২	ড° কৰুণা মোহন শৰ্মা দীপিকা বয় মেধি
গোট : ৩	বিজয় কুমাৰ দাস
গোট : ৪	ড° মানসী বড়া
ঐচ্ছিক গোট : ৪	ড° মানসী বড়া

First page of the publication-



Name of the author/teacher- Dr Samrat Dey

Cover Page-

Springer Proceedings in Physics 265

Soumitra Sengupta ·
Samrat Dey · Saurya Das ·
Dhruba J. Saikia · Sudhakar Panda ·
Ramakrishna Podila *Editors*

Selected Progresses in Modern Physics

Proceedings of TiMP 2021

 Springer

Content Page

Editors

Soumitra Sengupta
Indian Association for the Cultivation
of Science
Kolkata, India

Saurya Das
University of Lethbridge
Lethbridge, AB, Canada

Sudhakar Panda
National Institute of Science Education
and Research
Bhubaneswar, Odisha, India

Samrat Dey
Pragjyotish College
Guwahati, Assam, India

Dhruba J. Saikia
University Centre for Astronomy
and Astrophysics
Pune, Maharashtra, India

Ramakrishna Podila
Clemson University
Clemson, SC, USA

ISSN 0930-8989 ISSN 1867-4941 (electronic)
Springer Proceedings in Physics
ISBN 978-981-16-5140-3 ISBN 978-981-16-5141-0 (eBook)
<https://doi.org/10.1007/978-981-16-5141-0>

© The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2021

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Singapore Pte Ltd. The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

**Name of the author/teacher- Dr Sabrina Iqbal Sircar
Cover Page-**

**Interface: Language,
Ecology and Gender in
North East India**

Edited by
Sabreen Ahmed

Exceller Books



Content Page-

TABLE OF CONTENTS

Editorial	11
Evading the Erasures of Silence and Invisibility: An Intersectional Study of Language, Ecology and Gender on the North Eastern Women Narratives: -Dr. Sabreen Ahmed	12
Part I: Society and Culture	
1 Beyond Gender Binaries: Exploration of the Potential Third Space in Select Short Stories of Mousumi Kandali -Dr. Ananya Hiloidari	35
2 A Study of Selected Women's Autobiography from Assam as Explorations of the Domestic and Everyday Life -Dr. Lakhpriya Gogoi	45
3 Re-reading and Reconstructing the Female Body: Experiences from Northeast India -Dr. Sabrina Iqbal Sircar	64
4 Witch Hunting, Patriarchy and Religious Sanction: The Case of Bodos of Assam -Parvin Sultana	73
5 A Study of 'Loving Kindnesses in the Tai Buddhist Women of Assam -Dr. Ramala Sarma	85
6 Machine in the Garden: Reading Jahnvi Barua's <i>Undertow</i> as a Counter-Pastoral Narrative: -Priyanka Saha	98
7 Violence and the State: Situating Gender	108

First page of the publication-

**3| Re-Reading and Reconstructing the
Female Body: Experiences from Northeast
India**

Dr. Sabrina Iqbal Sircar
Assistant Professor
Pragjyotish College
Guwahati, Assam

Keywords: *Body, Tribal Women, Taboo, Male Gaze*

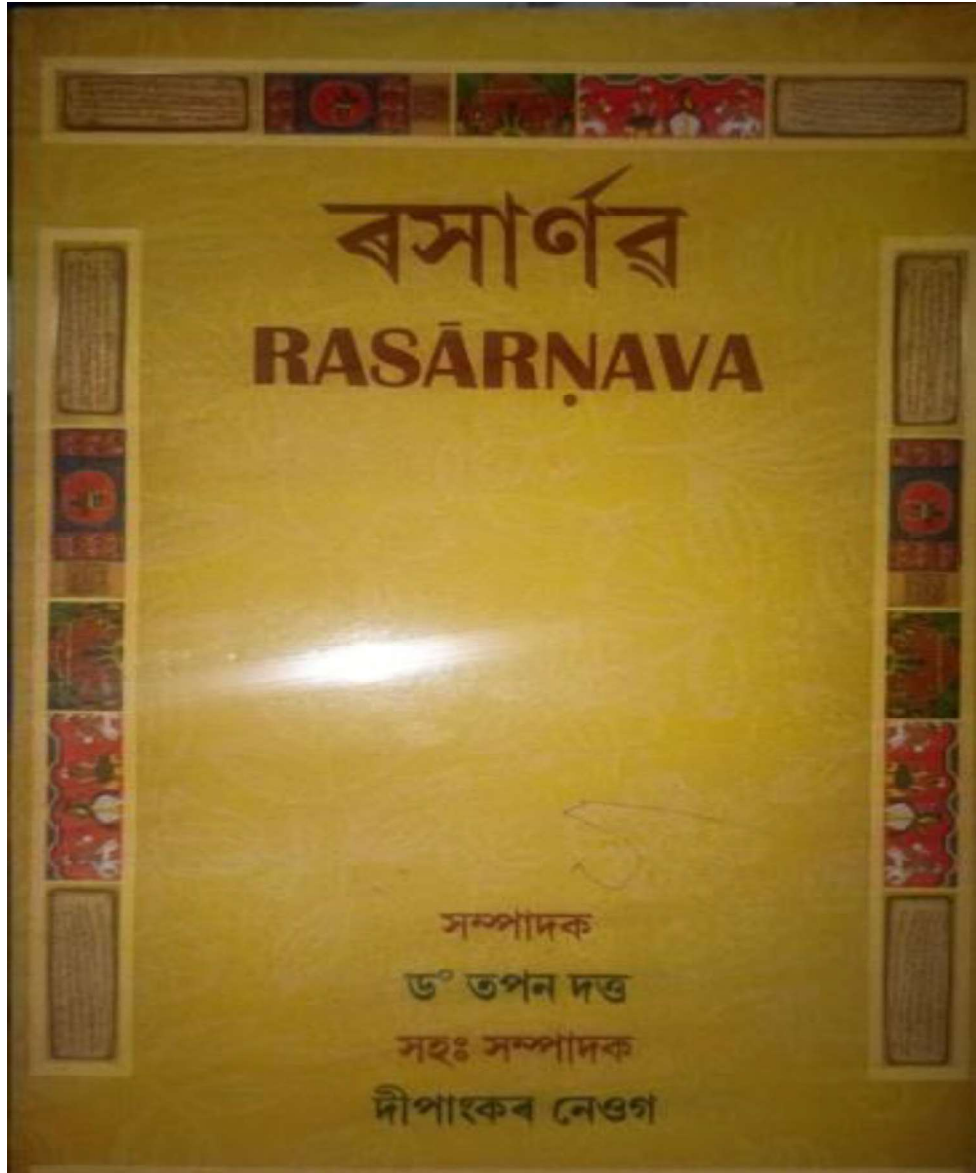
I wish my own foremothers had known their bodies were sacred. With the help of outrageous voices and honest words like those in this book, I believe the grandmothers, mothers, and daughters of the future will heal their selves--- and mend the world.

- Gloria Steinem

(In the foreword to the Vagina Monologues)

The construction, reading and representation of women's bodies have largely been a gendered exercise. Drawing in from the objectification theory (Fredrickson 2006) the way women are viewed goes on to construct their lives, their choices and their liberation in various societies world-over. The acculturation of women and their bodies though may seem like the norm, but as Menon (2012) states, a lot of work goes into maintaining this (gendered) social order of the naturalness of the female as inferior. The normalisation of the female as inferior and the subsequent superimposition of the sex and gender identity over her individuation or individual identity as a person has been one of the core causes of female subjugation since ages. The categorization of the female as the 'lesser' is an instance of biological determinism,

Name of the author/teacher- Dr Pallabi Dutta
Cover Page-

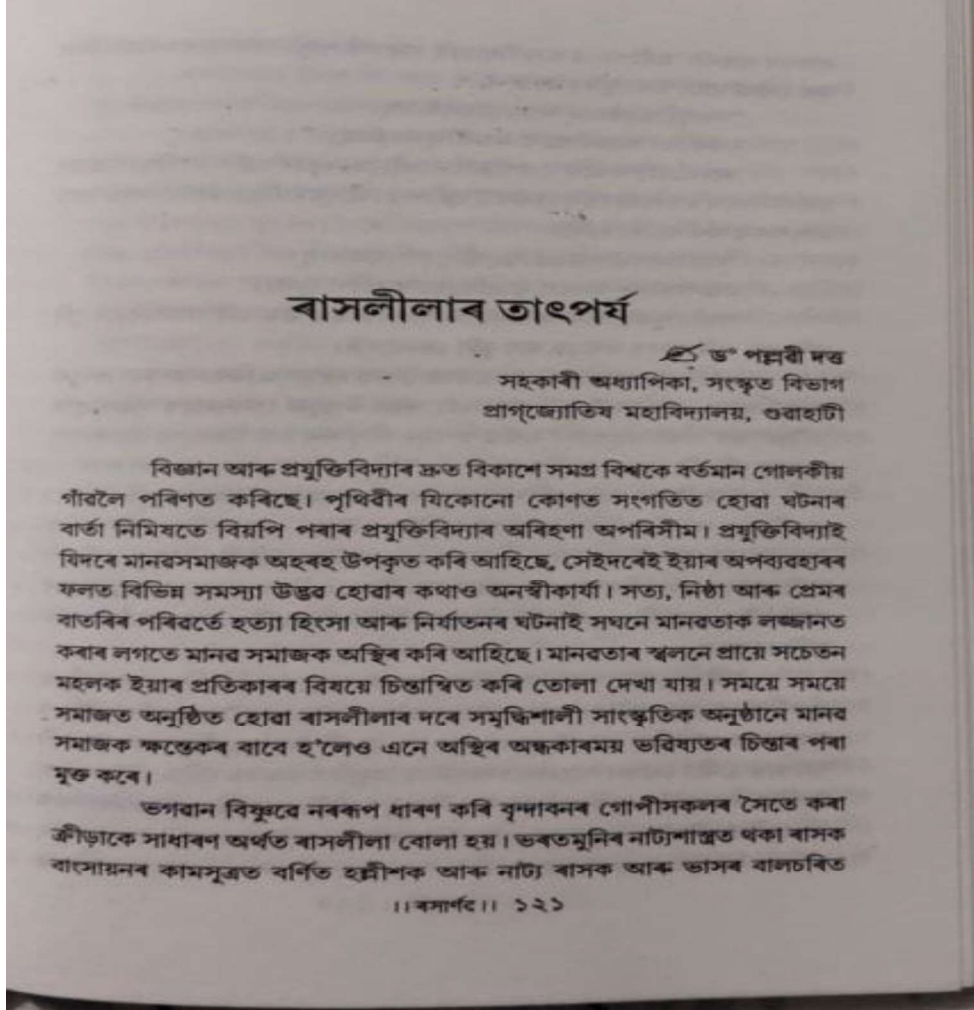


Content Page-

- শংকৰদেৱৰ কল্পিতনাট্য নাটত নাৰী চৰিত্ৰ আৰু বস বিচাৰ
• পৰীক্ষিতা গঠন /৯৯
- মাধৱদেৱৰ চোৰধৰা কুঁৱৰা : এক পৰিচয়াত্মক আলোচনা
• বিকাশ জ্যোতি বৰা /১০৪
- শংকৰদেৱৰ 'ৰামবিজয়' নাটৰ বসবিচাৰ এক চমু আলোচনা
• বিদ্যাশ্ৰী গঠন /১১০
- ৰাসলীলাৰ তাৎপৰ্য • ড° পল্লৱী দত্ত /১২১
- শ্ৰীশ্ৰী দক্ষিণপাট সত্ৰৰ বাসোৎসৱ আৰু ভাগৱত পুৰাণৰ প্ৰাসংগিকতা
• ডিম্পী কলিতা /১২৯
- আধ্যাত্মিকতাৰ যোগসূত্ৰ স্বপ্নত 'ভাওনা' • দেৱাশীৰ্ষ কলিতা/১০৫
- ভাওনাৰ লগত জড়িতসকলৰ এক সংগঠনৰ প্ৰয়োজনীয়তা
• ড° মানিক শইকীয়া/১৪০
- ভাওনা : ঐতিহ্যৰ দিশত সামান্য আলোকপাত • বৰ্ণালী শৰ্মা/১৪৮
- EVOLUTION OF BHAONA • Ankur Dutta /১৫২
- "সুস্থ মানসিকতাৰ বাবে প্ৰয়োজন আধ্যাত্মিকতাৰ বিকাশ :
যোগৰ প্ৰাসংগিকতা" • শাবনী শইকীয়া/১৫৪
- Influence of Sanskrit Drama In Sankadeva's Ankiya Naat
• Rupam Sharma /১৫৭
- অংকীয়া ভাওনা-চমু অৱলোকন • দিব্যজ্যোতি ৰাজখোৰা /১৬২
- ভাওনাৰ প্ৰাদুৰ্ভাৱ • ভুবন চন্দ্ৰ কলিতা /১৬৫
- অসমীয়া ভাওনা সংস্কৃতি • পল্লৱী হাজৰিকা/১৬৮

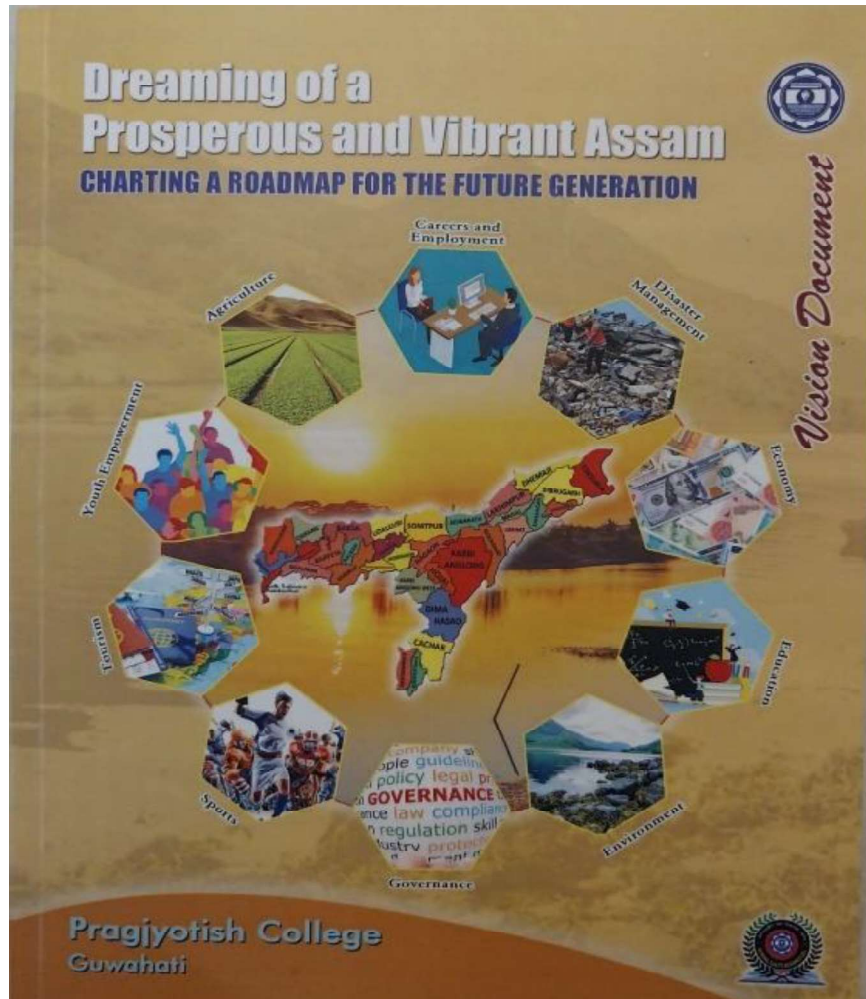
• • • •

First page of the publication-



Name of the author/teacher- Dr Manoj Kumar Mahanta, Dr Manjit Kumar Mazumder

Cover Page-



DREAMING OF A PROSPEROUS AND VIBRANT ASSAM
CHARTING A ROADMAP FOR THE FUTURE GENERATION

A Vision Document compiled through the contributed inputs of a cross-section of Pragjyotish College stakeholders

Edited by:

Dr. Manoj Kumar Mahanta
Dr. Manjit Kumar Mazumdar

Published by:

Internal Quality Assurance Cell
Pragjyotish College, Guwahati – 781 009

In Association with:

Pragjyotish College Publication Hub
Guwahati – 781 009

Articles published in this book reflect the views and opinions of the respective authors and have no connection whatever with that of the publishers

First Published: 1st September, 2021

Price: INR 800.00 (Rupees Eight Hundred only)

ISBN: 978-81-922120-1-2

PRINTED IN INDIA

Vision 2040 Assam Logo designed by: Ms Bidisha Bayan

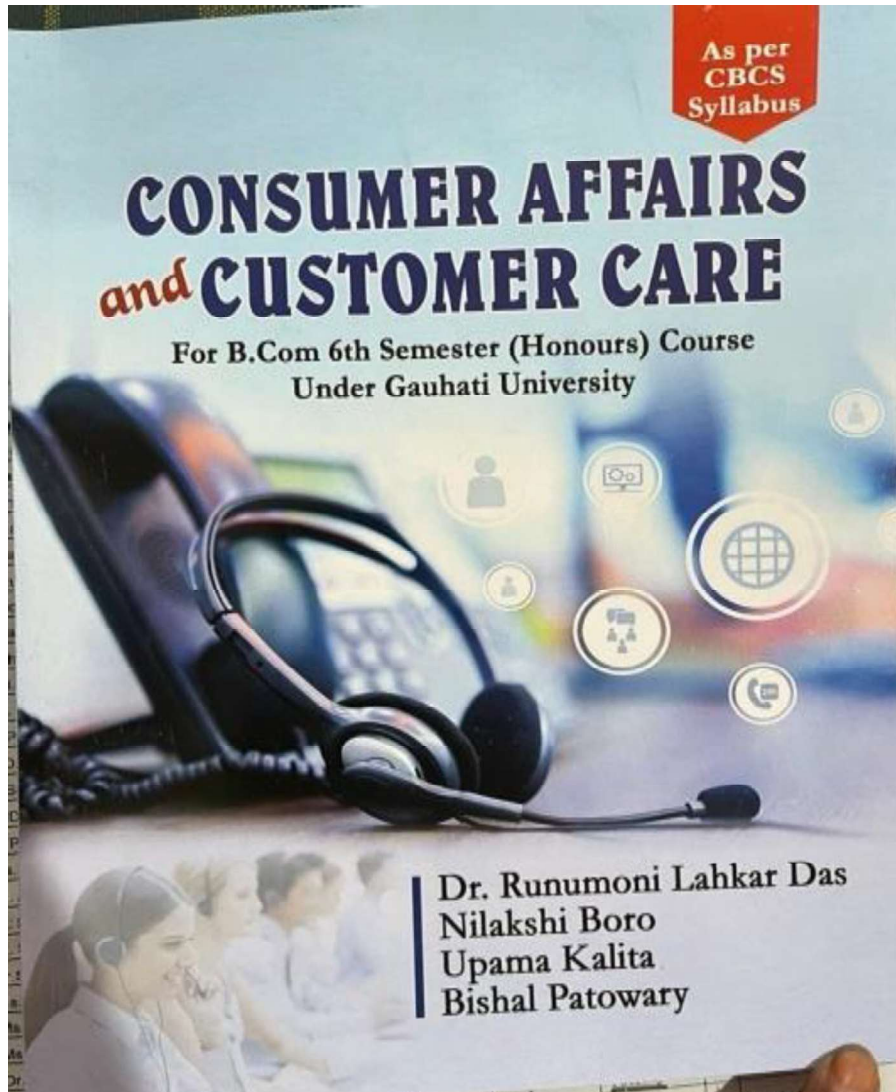
Cover and Layout designed by: Dipak Das

Printed at: Meetali Offset Printers, Kamakhya, Guwahati-781 010
Mobile No.: 95083-79945, 82568-79945
Email: meetalioffsetprinters@gmail.com, dipakdass10@gmail.com

2021-2022

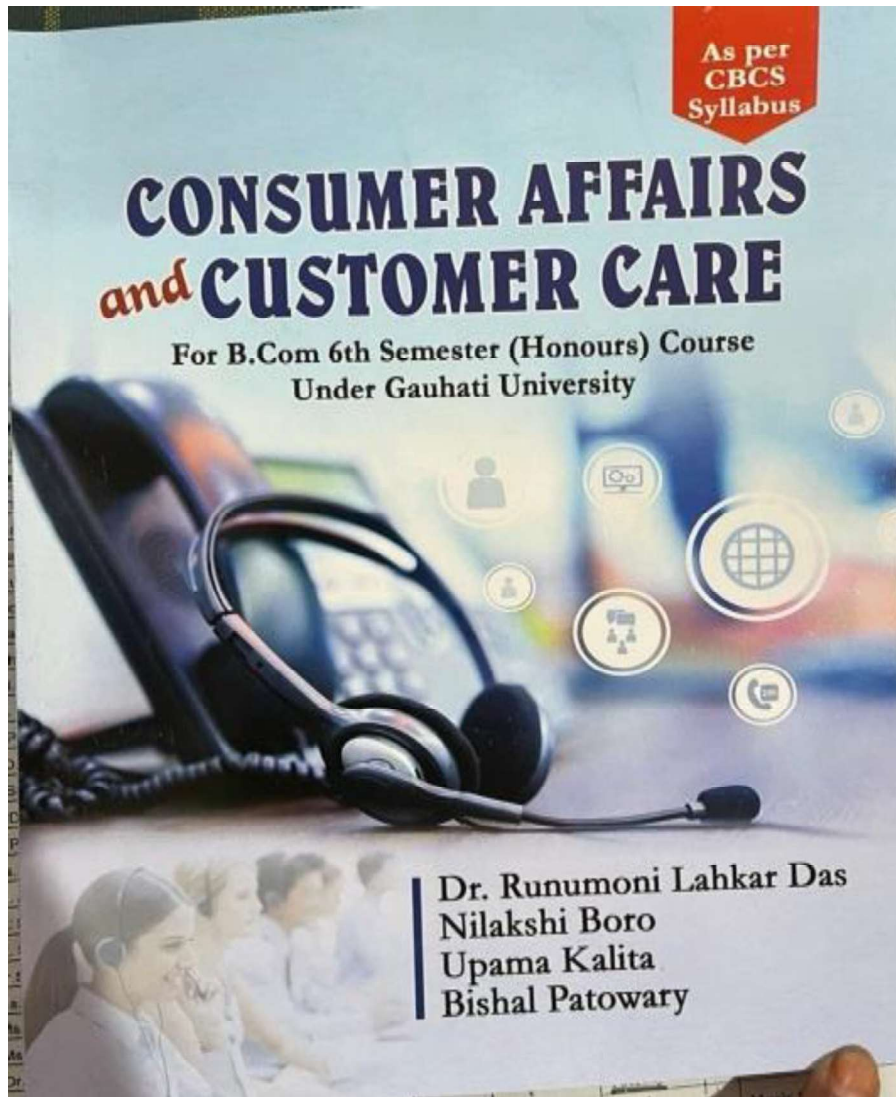
Name of the author- Nilakshi Boro

Cover Page-



Name of the author- Upama Kalita

Cover page-



Name of the author-Dr Ira Das

Cover page-

**INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN
MULTIDISCIPLINARY FIELD**

(ISSN: 2455-0820) (Scientific Journal Impact Factor: 8.719)
Monthly Peer-Reviewed, Refereed, Indexed Research Journal
Index Copernicus International - IC Value: 98.87

**International Conference on
"Business, Management, Social and
Economical Advancements"**

(26 & 27 June, 2021)
(Conference Proceedings Issue)



Conference Special Issue - 26 June - 2021

Jointly organized by:
Management Institute, Warsaw University of Life Science - SGGW, Warszawa, Poland
'Research Culture Society'
and
'Scientific Research Association'

RESEARCH CULTURE SOCIETY & PUBLICATION

Email: rcsjournals@gmail.com
Web Email: editor@ijirmf.com
WWW.IJIRMF.COM



Content Page-

ICBMSEA013	A Study on Motivating Factors for Teachers in Higher Education: Indian Context -- Dr. Sachin Sadashiv Surve, Ms. Safoura Jamal Ansari, and Mr. Shivanand Ramhari Thorat	99-110
ICBMSEA014	Role of Consumer Demographics in the development of Brand Attachment -- Dr. Umesh Ramchandra Raut, and Dr. Prafulla Arjun Pawar	111-117
ICBMSEA015	Socio economic factors affecting the farmers decisions to adopt farmers market: A direct agriculture marketing platform -- Tanuja Chaudhary and Dr. C.S. Joshi	118-127
ICBMSEA016	Women Entrepreneurs in Uttarakhand and their Growing Impact in Economy -- Dr. Abul James Singh	128-135
ICBMSEA017	Innovation and Technological Entrepreneurship with fusion of two International Act -- SHALU KANSAL, and Dr. MEENU AGARWAL	136-144
ICBMSEA018	Sustainable Development: Where Does the North East India Stand? -- Dr. Ira Das	145-152
ICBMSEA019	Analysis of stress factors among teachers in private educational institutions: A study in western Odisha -- Swagatika Nanda, and Dr.Muna Kalyani	153-160
ICBMSEA020	Strategies of Interpersonal Managerial Communication in Thrissur -- Dr. Alka Jain	161-166
ICBMSEA021	An Analysis of Production Functions of Women Micro Entrepreneurs in Kerala -- Dr. Sheena M.S., and Dr. Gabriel Simon Thatil	167-171
ICBMSEA022	Thoughts for Research on Strategic Intuition in Business -- Prof. Markus A. Launer	172-177

First page of the publication-

International Journal of Management Research and Business Studies (IJMRBS) | ISSN: 2692-8228 | Volume 05, Issue 020
North, Pinar, Indonesia, Journal of IC Online, 2022 | Impact Factor: 4.719 | Publication Date: 01/06/2022

International Conference on Business, Management, Social and Economical Advancements

26 & 27 June, 2022 Bangkok, Thailand

Jointly organized by Management Institute, Warsaw University of Life Science - SGGW, Warszawa, Poland,
"Research Culture Society" and "Scientific Research Association".

Sustainable Development: Where Does the North East India Stand?

Dr. Isha Das

Associate Professor, Department of Economics
Pegayesh College, Guwahati, Assam, India
E-mail: isha.ppegayeshcollege.ac.in

Abstract : United Nations (UN) adopted the Sustainable Development Goals (SDGs) in 2015 and expected to be achieved by the year 2030. Together with the UN, NITI Aayog in India initiated SDG India Index in 2018 to track progress on the SDGs in the country. Recently the third and second edition of "SDG India Index and Dashboard" (Index 3.0), 2020-21 was published. UNDP has been working in the North East region of the country in the areas of promoting sustainable development and it is said that UNDP has been able to carry out key developmental interventions in the North East NE, India which has yielded strong results in the areas of agriculture and equitable provision of public service delivery. Therefore, an attempt has been made in this research paper to analyse the performance of the states of the NE India in the SDGs on the basis of the recent report. The areas in which the NE States performed well and the areas in which the NE States performed bad are also tried to be mentioned in the study. From the study it is revealed that the performance of all the NE States except Mizoram and Meghalaya, is not satisfactory, as they performed below all India average. The paper highlighted some remarkable achievements of the States like providing food security to the people, gross value addition per worker in agriculture, tourism etc. On the other hand, the areas in which the NE States have failed to perform are maternal mortality, drop-out, unemployment etc. Government of the NE States have already taken some measures to improve its performance.

Key Words: Sustainable Development Goals (SDGs), performance, equitable provision, development

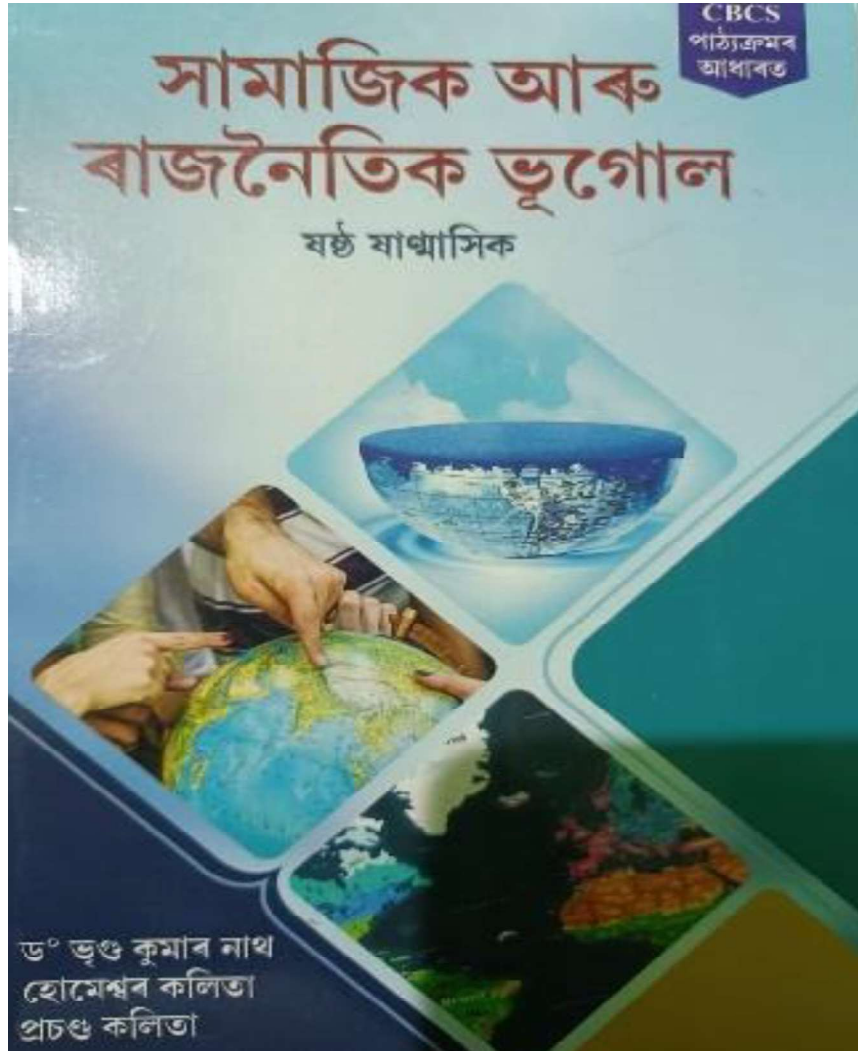
INTRODUCTION:

Currently the entire world is suffering from the COVID-19 pandemic and all are realising that all the inhabitants of the Earth are closely linked with each other for welfare of all. The climate change, poverty, inequality etc. all are due to the ill-planned development and non-ethical actions etc. There arises the need of sustainable development that tells about the way of development which can satisfy needs of the present generation without compromising the needs of future generation.

United Nations adopted the Sustainable Development Goals (SDGs) in 2015 and announced to be achieved by the year 2030. Together with the UN, National Institute for Transforming India (NITI) Aayog in India, initiated SDG India Index in 2018 to track progress on the SDGs in the country. While the second edition of the Index was launched in 2019, recently the third and second edition of "SDG India Index and Dashboard" (Index 3.0, 2020-21) published in March 2022 and it covers 17 SDGs which are: (1) No Poverty, (2) Zero Hunger, (3) Good Health and Well-being, (4) Quality Education, (5) Gender Equality, (6) Clean Water and Sanitation, (7) Affordable and Clean

Name of the author- Dr Bhrigu Kumar Nath

Cover Page



Content page

সূচীপত্ৰ

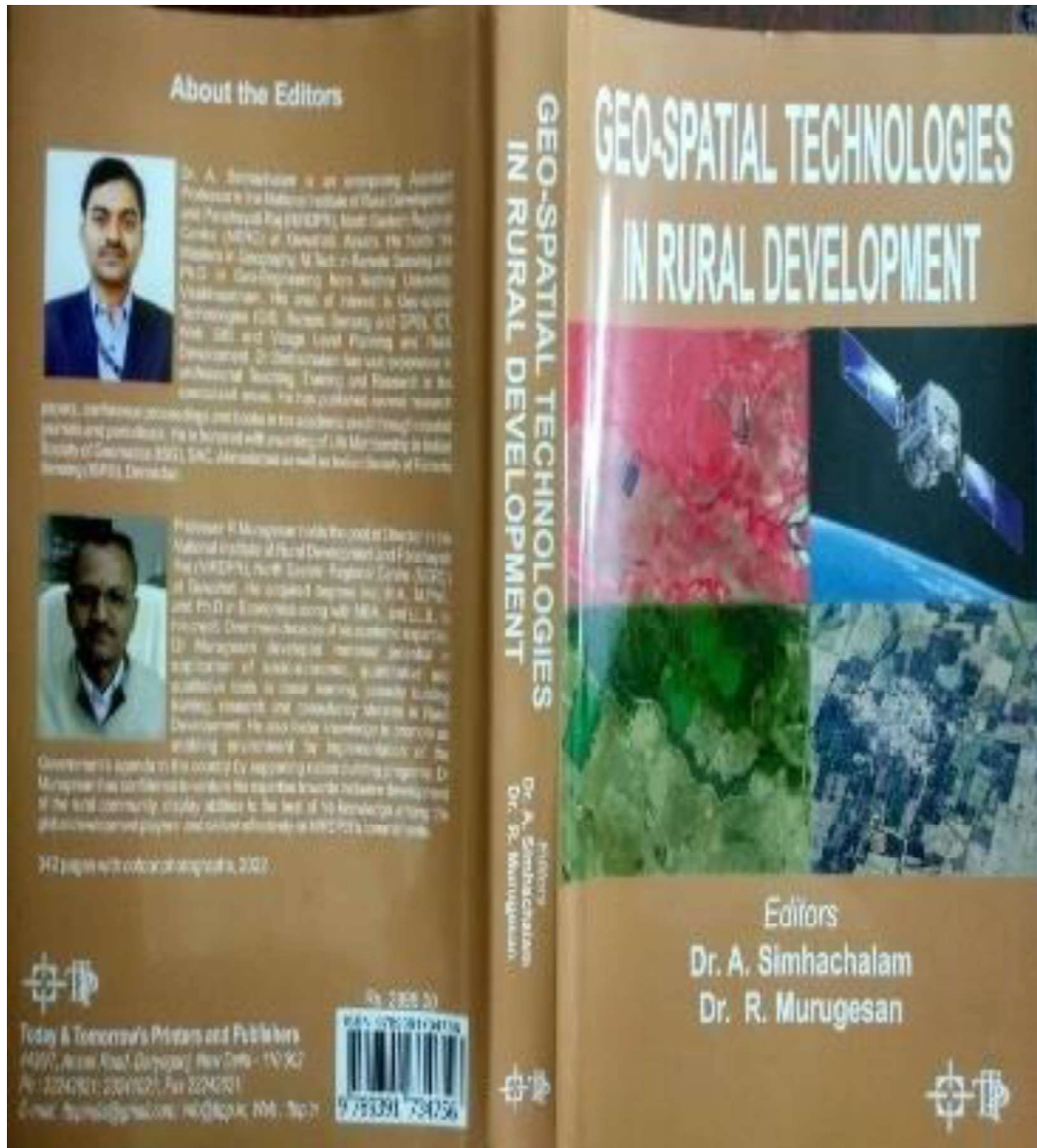
সামাজিক ভূগোল

প্ৰথম গোট :	১-৭৮
১ম অধ্যায় : প্ৰথমসামাজিক ভূগোলৰ অৰ্থ, পৰিসৰ আৰু পথ	১
২য় অধ্যায় : সামাজিক অৱস্থান	৮
৩য় অধ্যায় : সামাজিক সুস্থতা	২৩
৪র্থ অধ্যায় : সমাজৰ সৃষ্টি আৰু বিকাশ	৩৬
৫ম অধ্যায় : অন্তৰ্ভুক্তকৰণ আৰু আছূতীয়াকৰণৰ ভূগোল	৫০

ৰাজনৈতিক ভূগোল

দ্বিতীয় গোট :	৮১-১৪২
১ম অধ্যায় : ৰাজনৈতিক ভূগোল	৮১
২য় অধ্যায় : ৰাষ্ট্ৰৰ আৰু জাতিৰ ধাৰণা	৯৩
৩য় অধ্যায় : সীমান্ত অঞ্চল আৰু সীমা	১১৭
৪র্থ অধ্যায় : ৰাজনৈতিক ভূগোল আৰু ভৌগোলিক ৰাজনীতি	১৩২

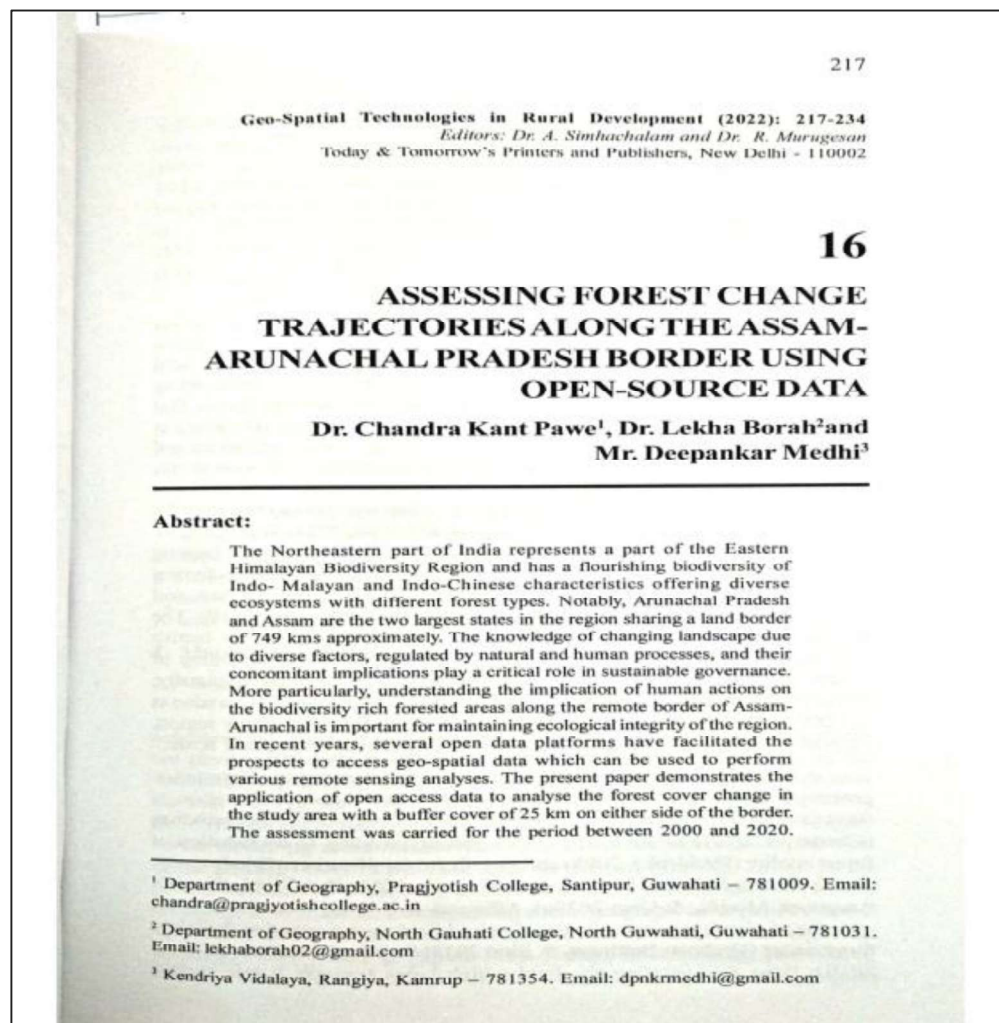
Name of the author- Chandra Kant Pawe



Content page-

15	MAPPING OF WETLAND USING GEOINFORMATICS: A CASE STUDY OF SON BEEL. <i>G. Deka, R. Borah and A. Nandy</i>	205
16	ASSESSING FOREST CHANGE TRAJECTORIES ALONG THE ASSAM-ARUNACHAL PRADESH BORDER USING OPEN-SOURCE DATA <i>Dr. Chandra Kant Paws, Dr. Lekha Borah and Mr. Deepankar Medhi</i>	217
17	AN ANALYSIS OF HYDRO-GEOCHEMISTRY OF THE GROUNDWATER STATUS OF CUDDALORE DISTRICT <i>Vikas Kumar Maurya</i>	235
18	APPLICATION OF REMOTE SENSING & GIS IN FORESTCHANGE DETECTION OF KATEPURNA SANCTUARY, AKOLA (MAHARASHTRA) <i>Obaidullah Fheer, Shri.P.C.Lakra, Saroj Bhowakarma, Chandan Roy and Dr.Narendra Prasad</i>	251
19	ROLE OF HISTORICAL WETLANDS ON CHANGING ECOLOGICAL EQUILIBRIUM: A CASE STUDY OF JUNBEEL WETLAND, MAYONG REVENUE CIRCLE, MARIGAON, ASSAM <i>Ankita Tamuli and Prof. Ashok Kumar Bora</i>	271
20	LANDUSE/ LANDCOVER PATTERN IN FLOODAFFECTED RIVER ISLAND OF BRAHMAPUTRA VALLEY & ITS IMPACT ON SOCIO-ECONOMIC SCENARIO: A GIS BASED STUDY <i>Kalyanjit Sarmah, PLN Raju and Ranjit Sarma</i>	287

First page of the publication-



Name of the author-Chandra Kant Pawe

Cover page

An Illustrated Geography of Assam

Editors

Ashok Kumar Bora

Mrinal Nath



EBH Publishers (India)
Guwahati

Content page

Contents

<i>Foreword</i>	–	<i>vii–ix</i>
<i>Preface</i>	–	<i>x–xiii</i>
<i>List of Figures</i>	–	<i>xvii–xviii</i>
<i>List of Tables</i>	–	<i>xix–xxii</i>
<i>List of Contributors</i>	–	<i>xxiii–xxiv</i>
1. Assam Through Ages – <i>Mrinal Nath, Devajani Bhagawati Nath</i>	–	1–39
2. Topography and Physiography – <i>Krishna Das, Ashok Kumar Bora</i>	–	40–60
3. Geology and Mineral Resources – <i>Priyam Barthakur</i>	–	61–77
4. Soils – <i>Utpal Baruah</i>	–	78–97
5. Climate – <i>Prasenjit Das, Bikul Barman</i>	–	98–112
6. Rivers – <i>Ashok Kumar Bora, Kasturi Borkotoki</i>	–	113–129
7. Wetlands of Brahmaputra Floodplain – <i>Dhrubajyoti Sahariah, Kuleswar Sinha</i>	–	130–150
8. Water Resources – <i>Debashree Borah, Ashok Kumar Bora</i>	–	151–165
9. Forest Resources – <i>Partha Pratim Baruah, Juthika Dihingia, Jyotishmita Dutta, Arjun Adhikari, Souravjyoti Borah</i>	–	166–184
10. Land Use and Land Cover – <i>Chandra Kant Pawe, Lekha Borah, Deepankar Medhi</i>	–	185–199
11. Natural Disasters – <i>Annekha Chetia, Swapnali Gogoi, Ashok Kumar Bora</i>	–	200–225

First page of the publication

10

Land Use and Land Cover

*Chandra Kant Pawe
Lekha Borah
Deepankar Medhi*

Introduction

Since the beginning of the last century, the world population quadrupled from 1.5 to 7.7 billion, adding the last billion in only 12 years (Roser, Ritchie, and Ortiz-Ospina, 2019). According to UN projection, in the next three decades, India will share the highest proportion of the projected population growth, overtaking China as the world's most populous country by 2027 (UN DESA, 2019). Such accelerated growth of population exerts substantial pressure on the natural resources (Garg, 2016). Landscape transformation is the manifestation of environmental alteration forced by human operations. Today, at global scale the reverberations of landscape transformations are considered as systematic processes (Singh, 2013). One such process is the land use land cover change (LULCC), probably the most generic transformational outcome of the landscape. Land cover is characterized by the bio-physical entity covering the earth's surface, on the other hand, land use refers to the causal result developed on a particular land cover due to human activities (Gregorio and Jansen, 2000). In general, LULCC describes the human-induced alteration of the terrestrial earth (Erle, 2006). It has caused varied undesirable physical effects impacting the ecological health of the environment, thus, it is globally regarded as one of the chief factors of environmental change. The knowledge of changing landscape due to diverse factors regulated by natural and human processes, and their concomitant implications play a critical role in sustainable governance. A prior understanding

Name of the author- Krishna Das

Cover page

**Application of Geo-Spatial Technologies
in Natural Resource Management**

Editor

Dr. A. Simhachalam

Akansa Publishing House

Delhi • Guwahati • Visakhapatnam

Content page

16. Application of Geo-spatial and Attribute Data for Analysis of Rainfall Trend during Twentieth Century (1901-2016): Observations from Purulia District, West Bengal, India	186
<i>Arindam Sarkar</i>	
17. Above Ground Biomass Estimation of Tree Using Remote Sensing and GIS in Netarhat Forest Area of Jharkhand	210
<i>Kumari Lalita, R. B. Saha, Om Kashyap, Obaidullah Ehrar</i>	
18. Application of Open-Source Geospatial Tools for Cropland Mapping in Brahmaputra Valley, Assam	224
<i>Krishna Das, A. Simhaachalam, Ashok Kumar Bora</i>	
19. LULC Changes and LST Dynamics in Davangere City, Karnataka India: Inferences from Landsat Data	235
<i>Suresh S. Dodumani, Sharath Raj B. Ali, Raza Moosvi</i>	
20. Drainage Morphometry analysis for Sustainable Urban Development using GIS	246
<i>Rakesh Kumar Sarmah, Santanu Sarma</i>	
21. Mapping and Change Analysis of Wetland using Geospatial Technology: A Case Study of Khamranga Wetland, Chandrapur, Kamrup M, Assam	254
<i>Jayanta Goswami, Pradip Chandra Kalita, A. Simhaachalam</i>	
22. Watershed Delineation of Tuni River Using Arc Hydro Model	262
<i>Bhupati Gogoi</i>	
23. Assessment of NRM works Under PMKSY Projects Using Geoinformatics: A case of PMKSY Project V, Mon District, Nagaland	272
<i>A. Simhaachalam, Namita Sharma, Jayanta Goswami, SK Ghosh</i>	
24. A Geo-spatial and Hydrodynamic Analysis on the Influence of Flow Diverting Structures in a Natural Channel: A Case Study on Brahmaputra River near Majuli	287
<i>Anupul Baruah, Dhruba Jyoti Sarmah, Arup KR Sarma</i>	
25. Geo-ICT applications in monitoring of NRM works under MGNREGS: A Case of Golaghat District, Assam	298
<i>Sanjit Kumar Ghosh, Simhaachalam Alojangi</i>	

18

Application of Open-Source Geospatial Tools for Cropland Mapping in Brahmaputra Valley, Assam

Krishna Das, A. Simbachalam, Ashok Kumar Bora

ABSTRACT

The recent advancements in geospatial tools and technologies provide a new opportunity in earth's resource observation and environmental applications. The popularity of open-source geospatial tools enhances the wide applications of these tools for various studies and research works. This study has also carried out using open-source geospatial tools in order to map croplands of the Brahmaputra valley of Assam (India). Brahmaputra valley of Assam shelters about 84 percent proportions of the population of the state as per 2011 census and about two-fourth of the total land area of the valley is agricultural land. This study attempts to estimate the various types of cropland in the valley based on an open-source land cover dataset available at global scale using an open-source GIS software package. The study has observed that there are about 37,689 km² (67% to total study area) and 38,998 km² (69% to total study area) of total cropland area in Brahmaputra valley during 1995 and 2015 respectively. Besides, the cropland metrics are generated for the study area as a whole with a special focus on post-flooding cropland status in

Name of the author-Krishna Das

Cover page

An Illustrated Geography of Assam

Editors

Ashok Kumar Bora

Mrinal Nath



EBH Publishers (India)
Guwahati-1

Content page

Contents

<i>Foreword</i>	–	<i>vii–ix</i>
<i>Preface</i>	–	<i>x–xiii</i>
<i>List of Figures</i>	–	<i>xvii–xviii</i>
<i>List of Tables</i>	–	<i>xix–xxii</i>
<i>List of Contributors</i>	–	<i>xxiii–xxiv</i>
1. Assam Through Ages – <i>Mrinal Nath, Devajani Bhagawati Nath</i>	–	1–39
2. Topography and Physiography – <i>Krishna Das, Ashok Kumar Bora</i>	–	40–60
3. Geology and Mineral Resources – <i>Priyam Barthakur</i>	–	61–77
4. Soils – <i>Utpal Baruah</i>	–	78–97
5. Climate – <i>Prasenjit Das, Bikul Barman</i>	–	98–112
6. Rivers – <i>Ashok Kumar Bora, Kasturi Borkotoki</i>	–	113–129
7. Wetlands of Brahmaputra Floodplain – <i>Dhrubajyoti Sahariah, Kuleswar Sinha</i>	–	130–150
8. Water Resources – <i>Debashree Borah, Ashok Kumar Bora</i>	–	151–165
9. Forest Resources – <i>Partha Pratim Baruah, Juthika Dihingia, Jyotishmita Dutta, Arjun Adhikari, Souravjyoti Borah</i>	–	166–184
10. Land Use and Land Cover – <i>Chandra Kant Pawe, Lekha Borah, Deepankar Medhi</i>	–	185–199
11. Natural Disasters – <i>Annekha Chetia, Swapnali Gogoi, Ashok Kumar Bora</i>	–	200–225

2

Topography and Physiography

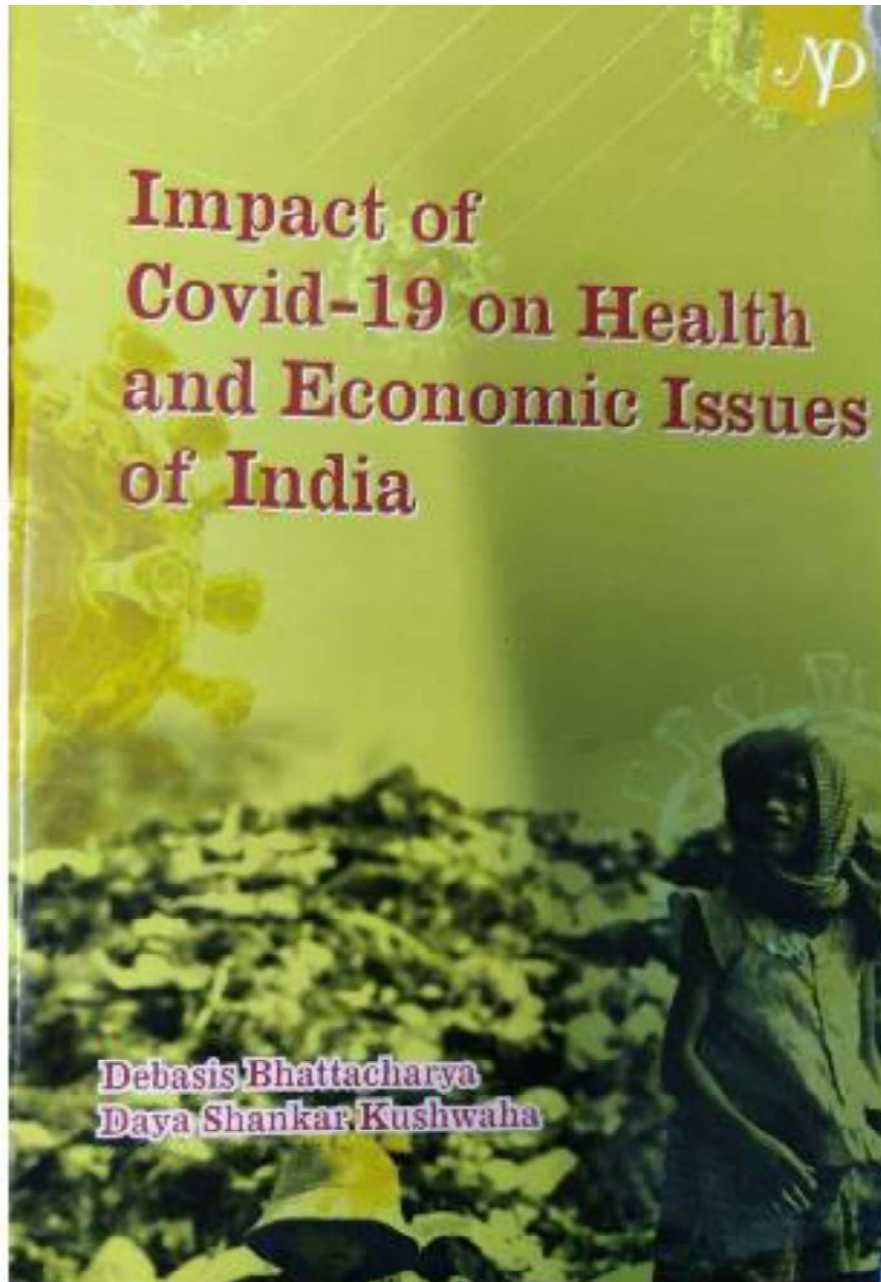
*Krishna Das
Ashok Kumar Bora*

Introduction

Geographically, Assam occupies a unique position with intriguing geological, physiographic, biological, social, and cultural diversity. The Assam state is located in the north-east corner of India comprising exclusive topographic and physiographic settings with hills, plateaus and river valleys (Anonymous, 1896). The river valleys spread over four-fifth of the total land area of Assam, while plateaus and hills comprise around one-fifth of the total land area (Taher & Ahmed, 2007). The topographic appearance of Assam is different from that of most other states of India, and the inimitable topographic, as well as physiographic conditions make Assam an interesting place for researchers in understanding their diverse curiosities on innumerable geo-environmental and socio-cultural aspects of this region of the country (M'cosh, 1837). Topography and physiography are the key parameters to know about the physical geographic settings of a landscape and these parameters also act as a basis to draw information on different geographic features available on the ground (Blanc, 1967; Small & Cohen, 2004; Dobrowski *et al.*, 2009). In this study, an attempt has been made to understand the physiographic setting of Assam based on secondary sources of scientific literature. Simultaneously, the study also tries to draw a basic understanding of the topographic framework of Assam by assessing the basic terrain properties based on a digital cartographic methodology. Especially from the beginning of the 21st century, the geo-scientists in general and geographers in particular, started following the digital cartographic methodology for studying the

Name of the author- Dr Ira Das

Cover page



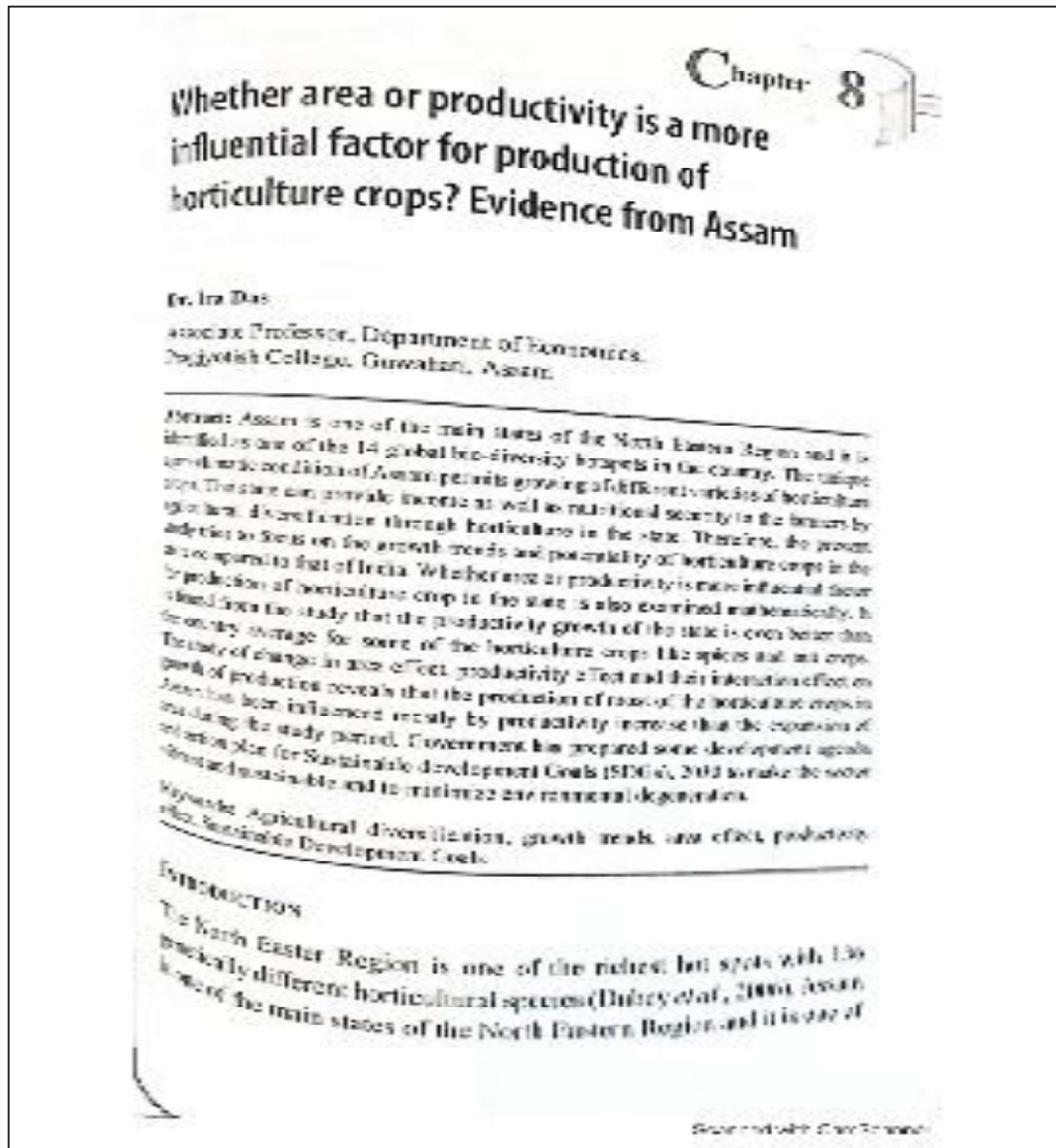
Scanned with CamScanner

Content page

Contents

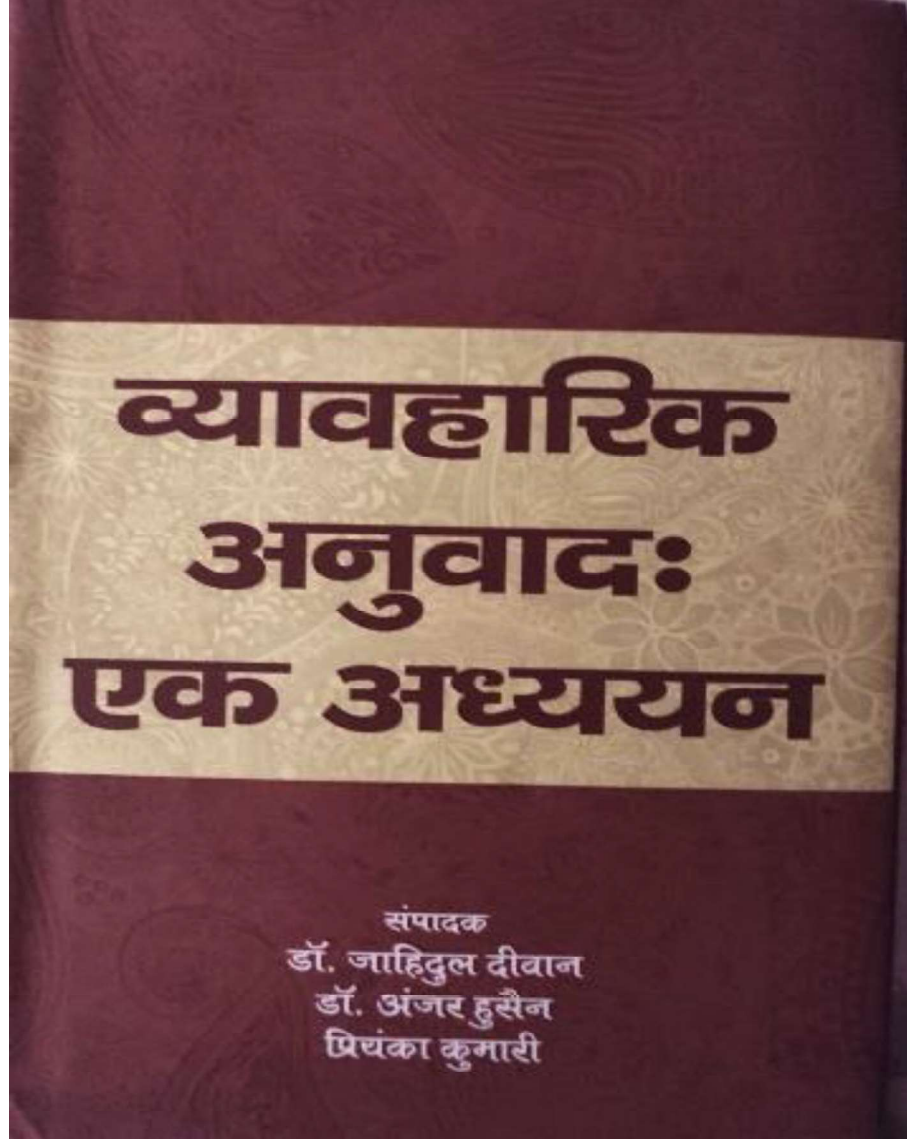
<i>Acknowledgement</i>	v
1. Effects of Biomass Burning on Lung Functions in Rural Tribal Women in Kaliganj Village, Santalpiketan.....	1
<i>Mallika Choudhury, Sangee Ghosh and Pratap Kumar Paul</i>	
2. Malnutrition in Odisha: How to Address this Challenge	17
<i>Swally Sethi</i>	
3. The Lives of Delhi's Women Waste Pickers during the Shadow Pandemic (COVID-19).....	39
<i>Sakshi Gupta and Dr. Shilpi Khosla</i>	
4. Role of Students Socio-economic status on Online Learning and Open Book Examination in the Higher Education: Evidences from India during COVID-19 Outbreak.....	53
<i>Satyanjit Mishra and Indrajit Roy Chowdhury</i>	
5. Trends in Covid-19 in India and its states	91
<i>Sayantani Dutta and Pravat Kumar Kari</i>	
6. An Analysis of Determinants of Agricultural Exports of BRICS: A Fixed Effect Panel Approach.....	105
<i>Lehkarani Gohain</i>	
7. COVID-19 Pandemic Crisis on Migrant Labour: A Geographical Study in Sitai Block, Coochbehar District, West Bengal	115
<i>Ganeshwar Barman and Dr. Indrajit Roy Chowdhury</i>	
8. Whether area or productivity is a more influential factor for production of horticulture crops? Evidence from Assam.....	155
<i>Dr. Ira Das</i>	

First page of the publication



Name of the author-Chandana Sarma

Cover page



Content page-

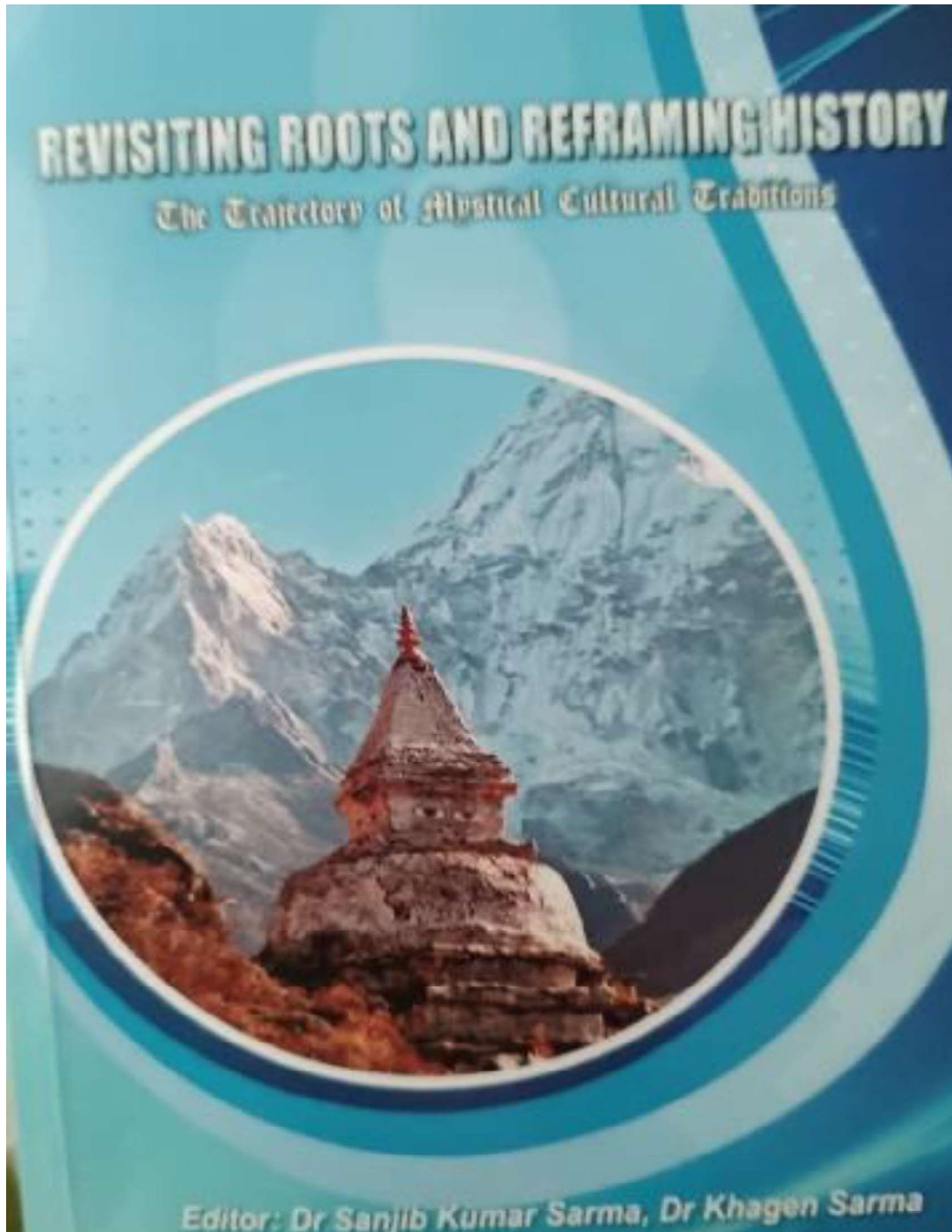
विषय-सूची		
भूमिका	डॉ. जाहिदुल दीवान	7
1. भारत और अनुवाद की प्रासंगिकता	प्रो. विमलेश कान्ति वर्मा	11
2. भाषा और अनुवाद : बदलते आयाम	प्रो. जगदीश शर्मा	15
3. नाट्यानुवाद के संदर्भ में राजा लक्ष्मणसिंह का अनुवाद-कर्म	प्रो. विनीता कुमारी	25
4. व्यावहारिक अनुवाद पर संक्षिप्त दिचार	डॉ. बीना जैन	32
5. अनुवाद सिद्धांतों का आधार: अनुवाद-व्यवहार	डॉ. हरीश कुमार सेठी	37
6. मशीनी अनुवाद - कितना चुनौतीपूर्ण, कितना सहायक	भावना सक्सेना	43
7. मशीनी अनुवाद कितना उपयोगी और कितना सार्थक	चारु माथुर देव	48
8. कथेतर साहित्य का अनुवाद	प्रियंका कुमारी	56
9. व्यावहारिक अनुवाद की चुनौतियाँ	डॉ. चन्दना शर्मा	65
10. व्यावहारिक अनुवाद : स्वरूप, चुनौतियाँ और भविष्य	रामराज रेड्डी	70
11. विज्ञान एवं तकनीकी युग के संदर्भ में तकनीकी साहित्य अनुवाद की चुनौतियाँ एवं समाधान	डॉ. रजित कुमार	76
12. केंद्र सरकार के कार्यालयों में अनुवाद चुनौतियाँ	किरण अश्वर सी.	84

First page of the publication

विषय-सूची		
भूमिका	डॉ. जाहिदुल दीवान	7
1. भारत और अनुवाद की प्रासंगिकता	प्रो. विमलेश कान्ति वर्मा	11
2. भाषा और अनुवाद : बदलते आयाम	प्रो. जगदीश शर्मा	15
3. नाट्यानुवाद के संदर्भ में राजा लक्ष्मणसिंह का अनुवाद-कर्म	प्रो. विनीता कुमारी	25
4. व्यावहारिक अनुवाद पर संक्षिप्त दिचार	डॉ. बीना जैन	32
5. अनुवाद सिद्धांतों का आधार: अनुवाद-व्यवहार	डॉ. हरीश कुमार सेठी	37
6. मशीनी अनुवाद - कितना चुनौतीपूर्ण, कितना सहायक	भावना सक्सेना	43
7. मशीनी अनुवाद कितना उपयोगी और कितना सार्थक	चारु माधुर देव	48
8. कथेतर साहित्य का अनुवाद	प्रियंका कुमारी	56
<u>9. व्यावहारिक अनुवाद की चुनौतियाँ</u>	डॉ. चन्दना शर्मा	65
10. व्यावहारिक अनुवाद : स्वरूप, चुनौतियाँ और भविष्य	रामराज रेड्डी	70
11. विज्ञान एवं तकनीकी युग के संदर्भ में तकनीकी साहित्य अनुवाद की चुनौतियाँ एवं समाधान	डॉ. रज्जीत कुमार	76
12. केंद्र सरकार के कार्यालयों में अनुवाद चुनौतियाँ	किरण अय्यर पी.	84

Name of the author-Chandana Sarma

Cover Page



Content page

- चर्चापत्र असमय समाज जीवनन चित्र (एटि विश्लेषणात्मक अध्यायन)
डॉ. अलका शर्मा / 205
- टाइ फाके जनजाति की भाषा एवं साहित्य एक अवलोकन
उदित तालुकदार / 211
- भूपेन हाजरिका के गीतों में प्रतिफलित असमीया लोक-जीवन
पूजा बरुवा / 219
- रीतामणि वैश्य की कहानियों में स्त्री जीवन के विविध पहलू
डॉ. संजीव मण्डल / 233
- वर्तमान परिदृश्य में कुरुक्षेत्र के युद्ध और शांति पर एक अवलोकन
गीतांजलि दास / 240
- जोनाकी युगीन आधुनिक असमीया कविता
रुबी मणि दास / 246
- समकालीन असमीया साहित्य एक अवलोकन
डॉ. रीतामणि वैश्य / 252
- 'सारा आकाश' उपन्यास में बदलते मूल्य एवं युवा पीढ़ी का स्वर
तैयबुन नेशा / 261
- हिन्दी साहित्य का इतिहास और सिद्ध साहित्य
डॉ. चन्दना शर्मा / 269 ✓
- पूर्वोत्तर भारत का जनजातीय लोक-संस्कृति
डॉ. परिस्मिता बरदलै / 274

First page of the publication

हिन्दी साहित्य का इतिहास और सिद्ध साहित्य

डॉ. चन्दना शर्मा

सहायक प्राध्यापक, हिन्दी विभाग, प्रागज्योतिष महाविद्यालय

1.1 भूमिका :

हिन्दी कविता का आदि रूप नालन्दा और विक्रमशिला के सिद्धों द्वारा बौद्ध धर्म के बज्रयान त्वत के प्रचार की भाषा में मिलता है। इन सिद्धों की संख्या 84 थी। ये अपने धर्म के प्रचार के लिए जनता की भाषा में ही कविता लिखा करते थे। यह भाषा मागधी अपभ्रंश से निकली हुई लगती है। इसका प्रथम कवि सरहपा या सरहपाद है। सिद्ध संप्रदाय आगे चलकर नाथ ङ्ग पंथ बन गया। जिससे कबीर आदि कवियों की संत-परम्परा चली।

1.2 अध्ययन का महत्त्व :

सिद्ध साहित्य अपने आप में एक महत्वपूर्ण विषय है। परंतु इस विषय पर जितनी चर्चा होनी चाहिये थी उतनी नहीं देखी जाती। अतः हिन्दी साहित्य का इतिहास और सिद्ध साहित्य विषय पर विचार करने से सिद्ध साहित्य की सम्पत्ता प्रतिफलित होगी।

1.3 अध्ययन का उद्देश्य :

इस शोध पत्र का उद्देश्य है हिन्दी साहित्य को इतिहास में सिद्ध साहित्य की क्या भूमिका है उस पर चर्चा करना। जिससे सिद्ध साहित्य पर एक सम्यक धारणा प्रस्तुत कर पाये।

1.4 अध्ययन का सीमांकन :

हिन्दी साहित्य में इतिहास लेखन को एक लम्बी परंपरा है। अतः सभी इतिहासों पर अध्ययन संभव नहीं है। इस शोध पत्र में आचार्य रामचन्द्र शुक्ल, हजारी

Name of the author- Pankhi Senapati

Cover page



Content page

अनुक्रमणिका

1. नवीशी जनजातीय साहित्य : लोक-विश्वास और मान्यताएं
- डॉ. रघुनाथ पाण्डेय 13
2. अरुणाचल जनजातीय समुदाय में प्राचीन भारतीय सांस्कृतिक तत्व
- शांति कुमार स्याल 21
3. असम के जनजीवन में लोककथाएं
डॉ. दिलीप कुमार अवस्थी 27
4. पूर्वोत्तर के आदिवासी जनजीवन का आधारभूत अध्ययन
- डॉ. पण्डित बन्ने 33
5. असम एवं राजस्थान की संस्कृति का तुलनात्मक अध्ययन
- डॉ. प्रिया सक्सेना 37
6. अरुणाचल के गालो लोकगीतों में स्त्री के अस्तित्व का प्रश्न
- मोर्जुम लोयी 41
7. असमिया लोक-संस्कृति: एक अध्ययन
(गोवालपरिया के विशेष संदर्भ में)
- दिगंत बोरा 45
8. असम की तिवा जनजाति का भाषा और संस्कृति: एक अनुशीलन
- पंखी सेनापति 51
9. गालो लोक-जीवन में लोकोक्तियों का महत्व
- जुमनू कामदाक 57
10. पूर्वोत्तर भारत की लोकनृत्य परंपरा एवं लोकजीवन
- बेबी विश्वकर्मा 66

असम की तिवा जनजाति की भाषा और संस्कृति: एक अनुशीलन

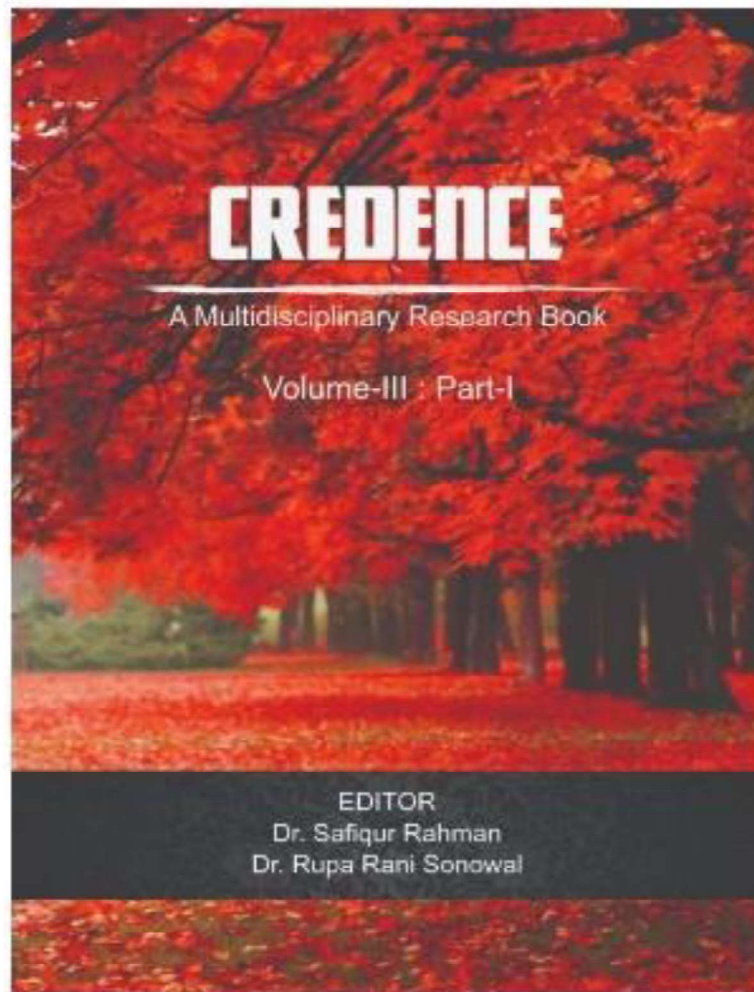
- पंखी सेनापति

तिवा जनजाति असम में रहनेवाले प्रमुख जनजातियों में से एक है। असम के तिवा जनजाति की लोगों का अन्य एक नाम है 'लालु' और उनलोगों का मानना है कि यह नाम दूसरों का दिया हुआ नाम है जिसके कारण वे लोग खुद को लालु कहने के बजाय तिवा जनजाति के नाम से परिचित करना अधिक पसंद करते हैं। वैसे 'तिवा' और 'लालु' दोनों नाम के उत्पत्ति तथा तात्पर्य के संदर्भ में अनेक जनश्रुतियों और विभिन्न विद्वानों ने भी अपना मत व्यक्त किया है। तिवा शब्द के संदर्भ में— 'तिवा' = 'ति' 'वा', तिवा भाषा में 'ति' और 'वा' दोनों ही अलग अलग शब्द हैं 'ति' का अर्थ है पानी और 'वा' का अर्थ है श्रेष्ठ निवासी। अतः तिवा शब्द 'ति फर वालि' (पानी या नदी के समीप निवास करनेवाले) शब्द से लिया गया है। अन्य एक मत यह भी है कि असम के टाई आहोम जाति के लोग चुतिया (एक जाति का नाम) लोगों को 'ति-उरा' बोलते थे और उसी शब्द से तिवा शब्द की उत्पत्ति मानते हैं। आहोम भाषा में 'तिवा' शब्द का अर्थ है— 'नदी के बहती पानी की ओर आगे जानेवाला बड़ा समूह'। अन्य जनश्रुति यह है कि 'तिवा' शब्द की उत्पत्ति तिब्बतीय शब्द से हुआ है, इनका मानना है कि वे लोग पहले तिब्बत में निवास करते थे और वहाँ रहने के कारण इन लोगों के जाति का नाम 'तिवा' हुआ। कुछ लोगों यह भी अनुमान कि 'तिफ्रा' अथवा 'तिफ्राछा' और 'दिमाछा' शब्द के अर्थ और ध्वनिगत सादृश्यताके कारण तिफ्राछा शब्द से ध्वनि रूपांतरण होकर तिवा शब्द बना है। असम के कलागुरु बिष्णुप्रसाद राभा जी ने 'असमीया कृष्ट' नामक लेख में लिखा है कि देउरी लोगों का वंश लुइत से कही जा रहा था। लुइत में जाते समय ही देउरी वंश के कुछ लोग खी गये थे, उस खी जानेवाले वंश का नाम था घाटर गयी, जिसे लालुंग कहा जाता है। अर्थात्, उन्होंने देउरी जाति के चुतिया वंश के अंतर्गत जानेवाले घाटर गयी वंश को 'तिवा' कहा है। उनके अनुसार, 'चुतिया' शब्द से 'चु' को छोड़कर 'तीया' से 'तिवा' शब्द बना है।

'लालु' शब्द के संदर्भ में— पौराणिक आख्यान के अनुसार, महादेव एक बार भांग पीकर मतवाला होकर सोये हुए थे, सोते समय उनके मुँह से लार निकल

Name of the author-Sun Gogoi

Cover page



Content page

15. Social Challenges of Bisexual in the Race of Gender Binary <i>Yasmin Nasima Parvin</i>	81
16. Ecological Activism of Nature's Beckon with Special Reference to Assam : A Case Study of Its Interactions with the State and Society <i>Son Gogoi</i>	85
17. Women In Pachayat : An Analysis Over The Empowerment of Women Through Reservation In Panchayats <i>Mehjabin Sultana</i>	92
18. Ancient Indian Environmental Understanding as Reflected in Literary Traditions <i>Dr. Nizwm Sona Baro</i>	96
19. The Role of Student Community of Brahmaputra Valley in the First Phase of Gandhian Movement <i>Dr. Malabika Das</i>	101
20. Mega Dams and Protests In India's Northeast : The Case of Lower Subansiri Hydroelectric Power Project <i>Sanghamitra Dev Ray</i>	108
21. Anticipating Postmodern : A Scrutiny into the Ideas and Philosophy of Nietzsche <i>Nipon Nath</i>	114
22. A Comparative Analysis of ICICI Bank and HDFC Bank in terms of Liquidity and Profitability <i>Faruk Ahmed</i>	119
23. A Study on "Ecosystem services of Wetlands of India" : Provisioning and Cultural Ecosystem Services of Satajan Wetland and Bird Sanctuary, North Lakhimpur, Assam <i>Dilman Kakoti</i>	128
24. An Analytical Study of the Need of Library in Government Schools of Assam <i>Porinita Taya</i>	133
25. Clinical Management and Recent Development of Type 2 Diabetes Mellitus <i>Dr. Jayanta Dowarah</i>	139
26. Environmental Pollution : Its Causes, Effects and Control Measures <i>Jelshing Yein</i>	149

First page of the publication

Ecological Activism of Nature's Beckon with Special Reference to Assam : A Case Study of Its Interactions with the State and Society

Sun Gogoi

Abstract : *In the developing countries ecological crisis has its own unique features. Unlike the developed countries of the Europe and America, in case of the developing countries like India, the goals and the processes of economic development are closely connected with the endeavour of 'nation-building'. However, due the heterogeneous nature of the post-colonial developing societies and the parallel presence of the industrialised 'cores' and the rural 'peripheries' within the political boundaries of the state, the state-sponsored project of nation-building has been facing various challenges. The state's relentless attempt to promote this project with modernisation, industrialisation and urbanisation has generated certain ecological problems. Academically these issues are being dealt with under the nomenclature 'Political Ecology'. Nature's Beckon, a non-governmental organisation (NGO) established in 1982 has been doing some tremendous jobs in Assam in the field of forest and wildlife protection. In the last three decades, the issue of rainforest conservation in Upper Assam was central to its agenda and policy framework. The connected forest areas of the region constitute the most isolated, unspoiled and dense tropical rainforests in India.*

Key words: *Ecological crisis, Developing countries, Nature's Beckon, forest, wildlife, Assam.*

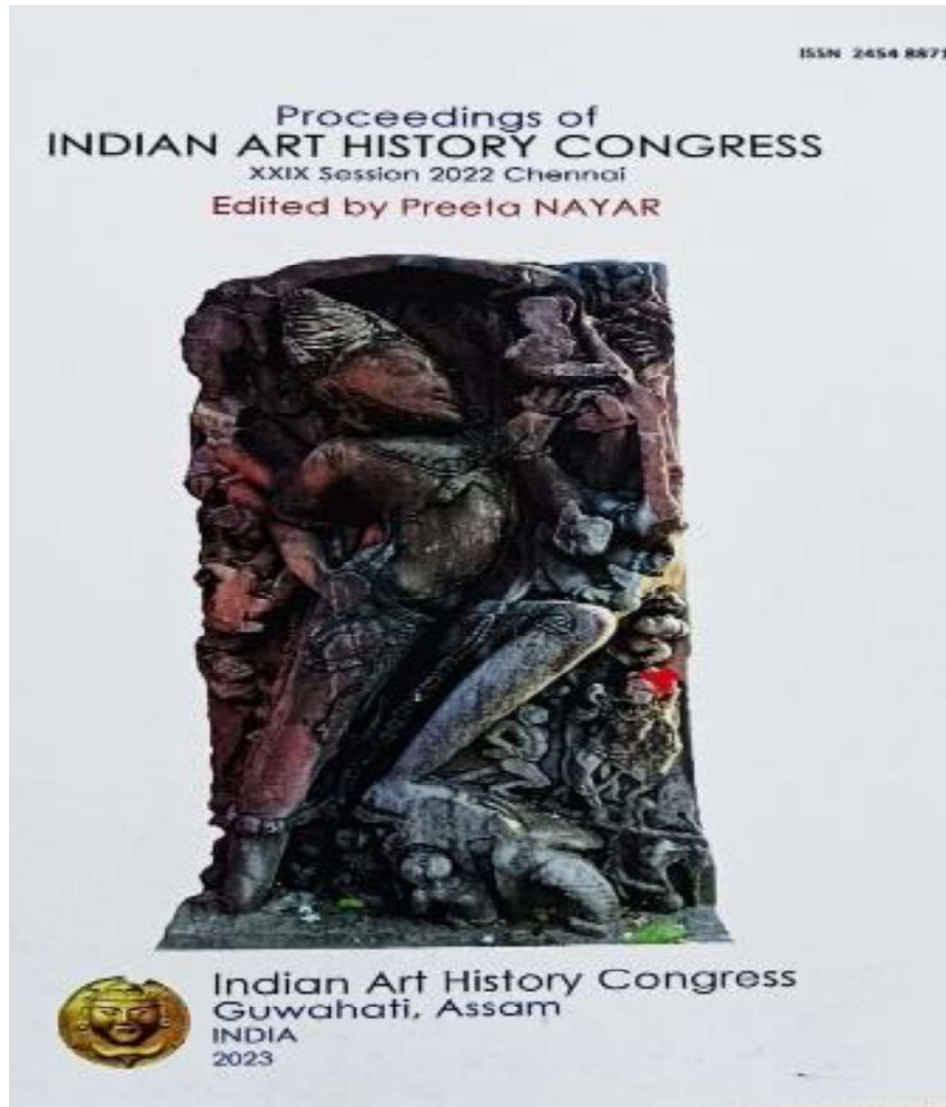
Introduction :

In the late 1980s, for the first time in the environmental history of Assam, Nature's Beckon organized a state-wide ecological consciousness building programme namely the Brahmaputra Barak Valley Natural Environmental Awareness Campaign. The organization is deeply involved in conserving the wildlife as well as their habitats in the sanctuaries, national parks and other forests areas of Northeast India. Its catalytic role in the late 1980s and the early

Assistant Professor, Department of Political Science, Pragjyotish College, Guwahati

Name of the author- Gargee Sharmah

Cover page



Content page

16	Special Emphasis on Regional Deities Associated with Water in Maharashtra <i>Santosa Menz</i>	167-176
17	Kubakar Sculpture: Proliferation and Diversification in Dhulabambola <i>Saurabh Pal</i>	179-186
18	Comparative Study of Iconography of <i>Sarpacharyas</i> of Varendra and Raibha Sub-regions of West Bengal <i>Soumya Majumdar</i>	187-192
19	Facets of the <i>Tripurantakamusti</i> Manifestation of Lord Shiva in Medieval Tamil Nadu: An Overview <i>C. Uma</i>	193-208
20	Chandanāyika Icon of Ambari Archaeological Site in Assam: An Analysis of Its Iconographic Traits <i>Rashmiti Phukan</i>	209-217
21	Different Iconographic Aspects of Mahiṣasura: A Buffalo Demon in Art Forms <i>Maitika Deepak Purnik</i>	213-219
22	Development of Sūrya Images of Bengal: An Iconographic Analysis <i>Shantiki Ojha</i>	220-229
23	Elements of Environmental Concern in the Art of Maurya-Shunga Age <i>Soumitra Shukla</i>	230-237
24	Iconography of Some Sculptures of Early Assam: Evolutions and Local Influences <i>Gargee Sharmah</i>	238-248
25	Analysis of Dakshinamoorthi Sculptures in Tamil Nadu with Special Reference to Iconography <i>K. A. Kavitha</i>	246-255
26	The Nāgajīva Ceilings of Ālampur: Imagery and Emplacement <i>Ajeet Vajpayee</i>	256-266
27	Images of Dancing Shiva from Different Regions <i>Rumal Karthik</i>	266-272
28	Representation of Kāmadeva: Diversified Patterns and Commonalities Seen Through Scripts and Sculptures <i>Arati B. Kulkarni</i>	271-282
29	Analysis of Indian Iconography with Special Emphasis on Regional Developments <i>Gopal Prasad Mandal</i>	283-288
30	Evolution and Regio-Influential Iconographic Expressions of Agni: The God of Fire <i>Bipin Arvind Kulkarni</i>	289-296
31	Representation of Narasimha Sculptures in Hoysala Monuments: Perspective in Regional Iconography <i>C. Srinivasulu and D.S. Somashankar</i>	297-306
32	Ravana in the Regional Art of Assam with Special Reference to Majuli, Assam <i>Lily Deka</i>	307-314

First page of the publication

Iconography of Some Sculptures of Early Assam: Evolutions and Local Influences

Ganga Ghoshal
Department of History, Progressive College
Guwahati 781 009
Assam
Email: ganga.ghoshal@gmail.com

Introduction

The variety of deities in their iconographic forms in Assam has been prevalent from early period. *Isha* and *Devi* are worshipped in the form of *Ingis* and *gauri* respectively. These forms are found exclusively in Assam. The statue *Shambhu* of *Devi Parvati* with some of *Ganga* and *Varuna* may be assigned to 8th - 10th century CE where the influence of Gupta classical art is clearly visible.

Assam's neighboring region, Bengal, witnessed the regional variations in art from the rule of the Pala dynasty. The Palas were great patron of art and under their patronage a new local school of sculpture evolved developing its own characteristics. This new school continued for almost four centuries till the coming of the Turk-Afghans. This group of art came to be known as the Eastern Indian School of Medieval Art (EISMA) (Banerjee, 1981: 85). The Palas ruled Bengal and Bihar for the period from 8th to 12th centuries CE, and occasionally extended territory over Assam. Until 8th century CE, Assam witnessed a sculptural style which followed the classical tradition but was greatly influenced by local idiom. Influence of local tribal style on some sculptures of Assam is clearly visible. The Eastern Indian School of Medieval Art (EISMA) penetrated into the early medieval Assam. This was proved by the sculptures of *Sri Surya Palas* and *Ma Nath* that belonged to 8th century CE.

Rationale

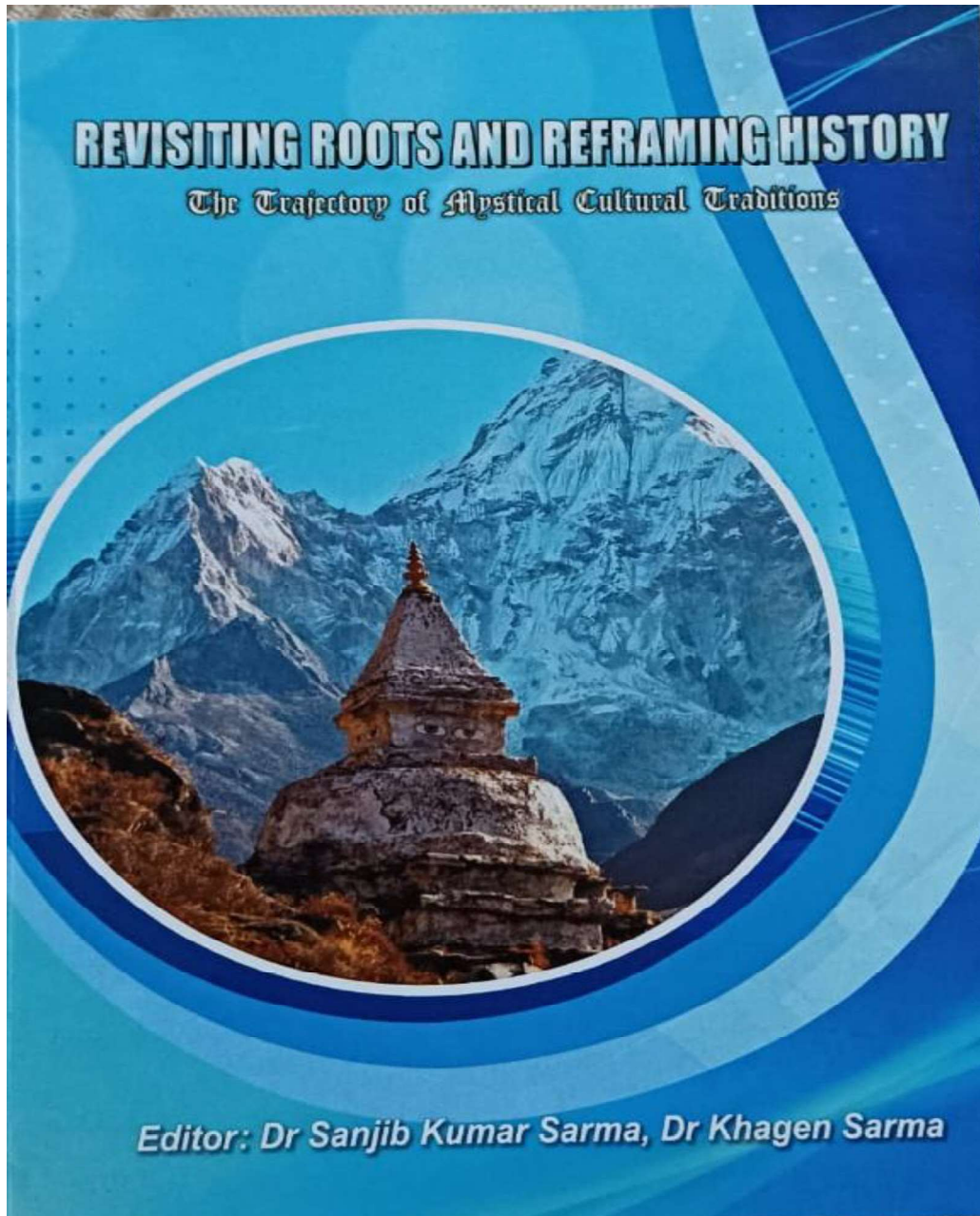
Study of art history of Assam is very important for the reconstruction of the past of this region. Due to the lack of literary material, one has to depend on the archaeological sources for the history of early Assam. Iconography is one of the important parts of archaeological sources. This paper looks into the evolution and local influences of the iconography of some sculptures of early Assam.

Methodology

The study is largely based on iconographic methodology. In order to get an in-depth analysis, a multidisciplinary approach is taken. Proper methodological tools from history and archaeology are selectively used for the study. A field survey method was also adopted.

Name of the author- Gargee Sharmah

Cover page



Content page

Contents

- ❑ Long-Lasting Messages Imparted Through the Literary Works Created by Nepali Writers set in Tibetan as well as Chinese Locales
Govinda Raj Bhattarai / 11
- ❑ Buddhist Culture in Tripura
Prof. Sipra Ray / 30
- ❑ Gandiya Nritya During Pala Period In Bengal (Major Buddhist Period)
Prof. Mahua Mukherjee / 35
- ❑ Mahabodhi Nritya : The Legacy of Buddhist art Forms and Culture of India
Tanay Roy / 44
- ❑ From Charyapada to Chandidasa : A Trajectory into Tantric Buddhism and Sahajiya Mysticism
Prof. (Dr.) Bishnu Charan Dash / 72
- ❑ Culture of Dasamahavidya in Early Assam in Historical Perspective
Dr. Gargee Sharmah / 82
- ❑ Buddhist Foundation of Morality : An Appraisal
Satyajit Kalita / 91
- ❑ "THE WHEEL OF TIME" : A Brief Study of the Indian Philosophical Influence on the Works of T.S. Eliot
Madhusmita Goswami / 104

First page of the publication

Culture of Dasamahavidya in Early Assam in Historical Perspective

Dr. Gargee Sharmah

*Assistant Professor, History Department, Pragjyotish College,
Guwahati-781009. Email-gargee.sarma@gmail.com*

Abstract :

The worship of mother goddess is one of the most important characteristic features of all religions. In the religious history of India too Saktism played a pivotal role. Mother goddess worship dates back to the first civilization in the Indian subcontinent. Devi Bhagawata Purana along with the Devi Mahatmya became the central text for the devi worship. The development of Dasamahavidyas marks a critical turning point in the history of devi worship. Their conceptualization marks the consolidation of several streams of thought. Early Assam was a great centre of Saktism. As a centre of saktism Assam was also a fertile land for the worship of Dasamahavidya. The temples of Dasamahavidya in the Nilachala hill prove the fact. It is said that the culture of Dasamahavidya in Assam was as old as that of the worship of goddess Kamakhya.

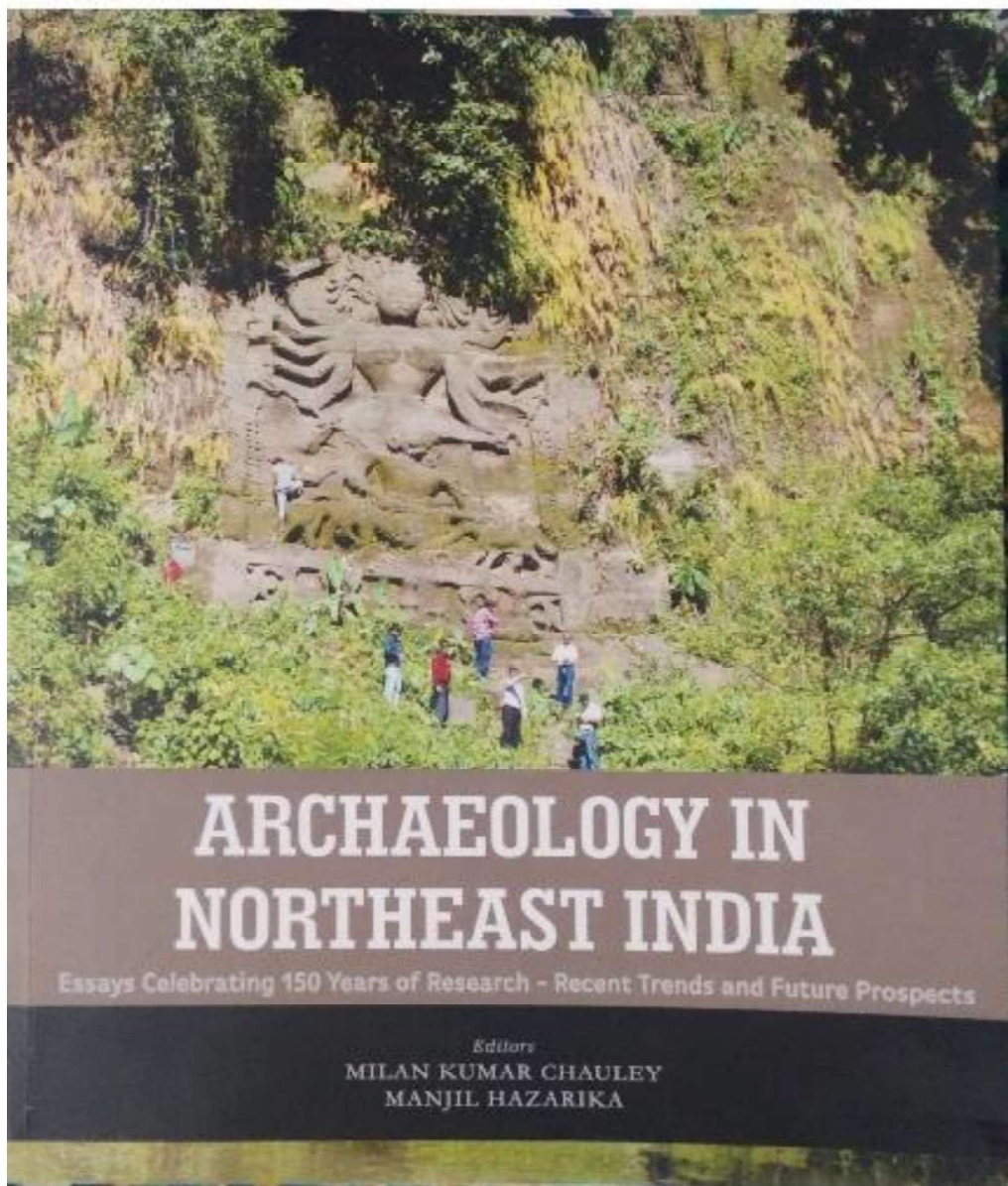
Keywords : Dasamahavidya, Saktism, Kamakhya, goddess

Introduction :

The goddess bearing different names and forms seem to have worshipped by different sects. But the variety of names and forms

Name of the author- Gargee Sharmah

Cover page



Conent page

Contents

<i>Foreword</i>		iii
<i>Preface</i>		iv
<i>List of Contributors</i>		vii
<i>List of Figures</i>		viii
1. Human Evolution in South Asia and Implications for Northeast India	<i>Ashok R. Sankhyan</i>	1
2. An Exploratory Study on Prehistoric Settlement Pattern in Bihingte, West Garo Hills	<i>Gangoo Biswas and Ganeshkumar Marak</i>	16
3. Archaeological Explorations in West Garo Hill, Meghalaya, Northeast India: Results of Recent Field Investigations during 2013-2016	<i>Toadavaa Pathan</i>	22
4. Stone Artifacts of Selbal Valley of West Garo Hills, Meghalaya	<i>Smita Das Bora</i>	51
5. 'The World Turned Upside Down': Counter-intuitive Narratives of the Neolith in Northeast India	<i>Roger Binet</i>	57
6. On the Discovery of a Kindan Midden in the Foothill of Western Assam	<i>Aranya Gopi Dasari</i>	49
7. A Study of Traditional Mortuary Practices of the Jaintias of Meghalaya, India	<i>Atanjan Mitan Meira and Ganeshkumar Marak</i>	52
8. Engravings on Megaliths in Mizoram	<i>Mohitashilana</i>	62
9. Archaeological Remains at Zaiti in Mizoram	<i>Satish Abhay Singh</i>	72
10. Beliefs associated with Megalithic Tradition among the Khasis of Meghalaya	<i>L. Jyoti Das</i>	79
11. Living Megalithic Tradition among the Khasis of Assam	<i>Rames Patra</i>	85
12. Archaeology of BCc. 200 – CE. 1200 Assam (Northeast India): Pre-literate to Historical and Early Medieval Periods	<i>Debatata Barman</i>	95
13. Commerce and Connections in the Making of Early Medieval Kāmarūpa (c. AD 500-1300)	<i>Balabrasi Gogoi</i>	103
14. The Archaeological Vestiges of Buddhism in Tripura	<i>Jibeya Jaisankar</i>	113
15. An Alternative Vantage for Sri Surya Pahar	<i>Jyotsna Mohapatra and Jalajaya Tharua</i>	124
16. Art and Archaeology of Dimpur: A Survey of Recent Discoveries	<i>Soumitra Kumar</i>	131

An Exploratory Study on Prehistoric Settlement Pattern in Bibrage, West Garo Hills

GANGOTRI BHUYAN AND QUEENBALA MARAK

Introduction

Settlement pattern refers to the cultural usage of space. The way the landscape was used for various activities, like house construction, area for community activities and other cultural activities. Hence settlement pattern can be referred to as the shape in which the community settled. For safe settlement of the community in the past (as well as present), several factors were considered, for instance, the surrounding environment, the land for agricultural activities, distance to water bodies etc. Settlement patterns can be of different types. Nucleated (houses grouped together), linear (houses formed in a line) and dispersed (houses spread out in wide areas) are the most common types of settlement patterns.

Settlement patterns are the distinct spatial expressions of cultural adaptations. Hence, ethnographers, anthropologists and archaeologists share with the geographers the concern to evaluate the degree to which certain factors condition the settlement distribution (Swain and Gould 1982). Several theories have been formulated since the beginning of the 20th century, in relation to the settlement pattern studies. Study of the settlement pattern of any community reveals immense information about the cultural activities and land use pattern of the community through time. Researchers have been able to indicate the settlement patterns, their

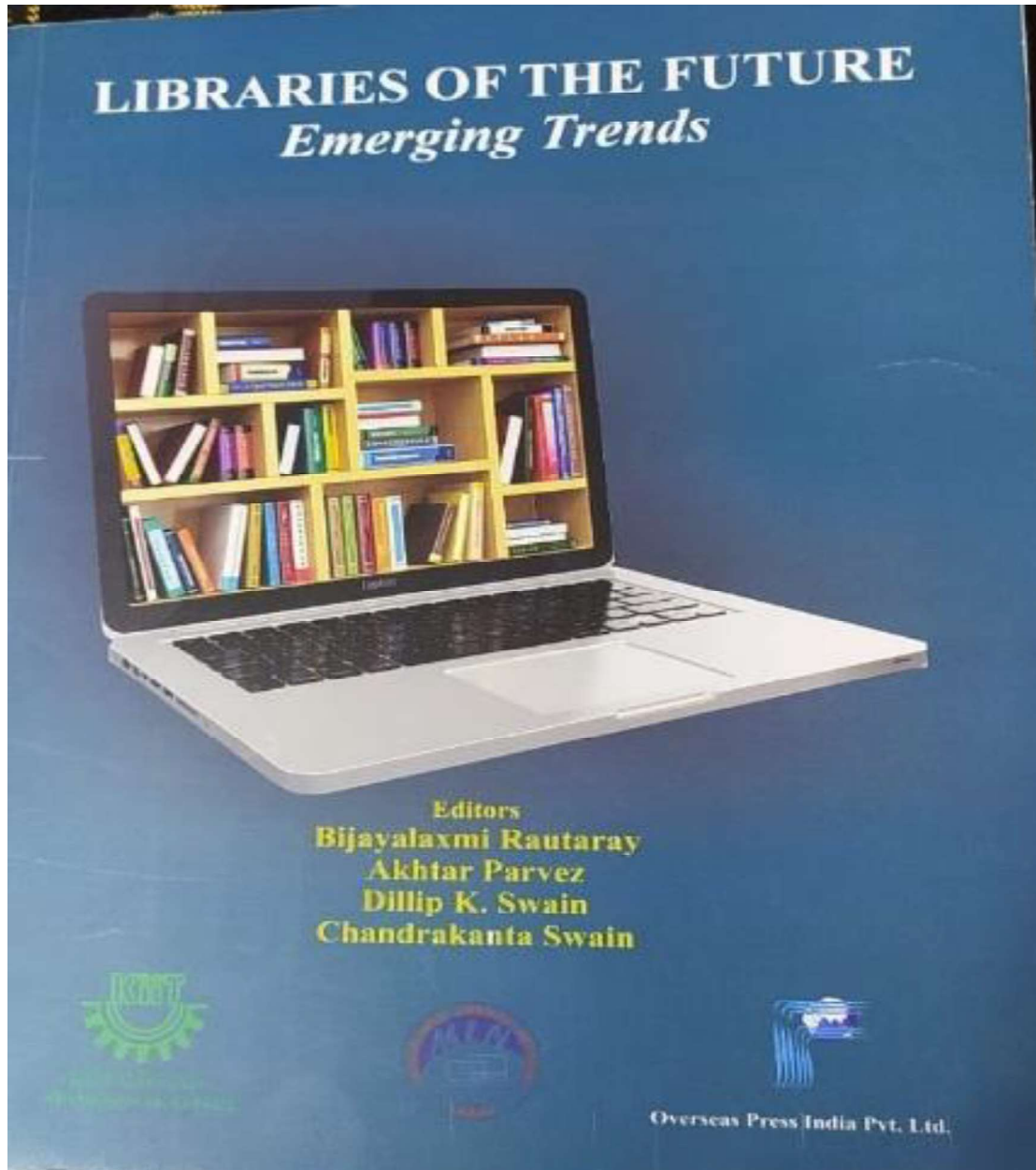
land use pattern and usage of landscape of ancient communities.

Archaeological works in Garo Hills started with the establishment of the Department of Anthropology in Gauhati University especially with the emergence of specialisation in Prehistoric Archaeology in 1966. The Stone Age sites discovered since then in the Garo Hills are concentrated mainly in the areas of Rongram, Ganol and Srisang rivers. Excavations were mainly spearheaded by the teachers of the department such as M.C. Goswami (1959, 1972), Sharma (1990, 1991), A.C. Bhagabat (1958), Sharma (1972, 1975, 1976, 2003), S.K. Roy (2003), A.A. Ashraf (2010), and their students and well-known Mahanta (1983), M. Sonowal (1987) and other eminent scholars and researchers have also visited these sites. They carried out geo-morphological and archaeological work in collaboration with the Department of Anthropology, Gauhati University. Some of them were H.D. Sankals, V.N. Murthy, Joshi, S.N. Rajaguru and R.S. Pappu from Deccan College, Pune. Sankals visited the sites in 1960 and was convinced about the Prehistoric presence of these sites.

However, majority of these works discuss the typology and its possible functional activities. The question of prehistoric settlement pattern has been rarely discussed by earlier authors. In such a situation

Name of the author- Unindrajyoti Choudhury

Cover page



Content page

CONTENTS

Sl. No.	Title	Page No
Section I : Libraries of the Future : Emerging Technology		
1	Libraries of the Future and Emerging Technologies: Role of LIS Professionals by B. Ramesh Babu	1-12
2	Innovation in Information: A Qualitative Study by Podlapanga Nishantha Chandrashekhara and Pasunoori Sandeep	13-19
3	Ontology Editing Tools: A Comparative Study on Fluent Editor and Protégé by Abhijith, B. and K.G. Sudhler	20-29
4	Managing Disruptive Technologies for the Future Libraries: Challenges and Opportunities by Rashmi Singh and Ranjit Hegde	30-37
5	Awareness on Applications of Artificial intelligence in Veterinary Science among Veterinary Scholars: A Study by K. Kumar and Chandrashekhara G S	38-46
6	Blockchain Integrated IOT Based Smart Library System by Madhavi Vaidya, Pritish Chatterjee and Meghana Sanjeeva	47-54
7	Learning From Home: New Role of College Libraries and Librarians by Abira Chakraborty	55-62
8	Changes in Services of College Libraries of Assam Due to Covid -19 Pandemic by Unindajyoti Choudhury	63-68
9	The Discovery Services and Tools: Means of Achieving Excellence in Information Retrieval by Dipanwita Ray	69-77
10	CRM in the Service Sector – Need to Look Beyond the Customer: A Referral to Libraries and Information Center Services by Ashok Kumar Satapathy and Asoem Kumar Das	78-84
11	Library and information Science Education in India Through MOOCs Platform by Pooja Patel	85-92
12	Outreach Activities and Marketing of Library Resources and Service by Edwin David Thomas	93-101
13	Management of Libraries: Post Covid-19 Disaster by Subhash Athavale, Sandeep Bhavsar and Dalibhat	102-110
14	Impact of Tethering Artificial intelligence in Search Engines for Information Retrieval: A Theoretical Viewpoint by Nalajpta Raj, Sahitri Majhi and Bharati Puri	111-116

First page of the publication

Catalytic role of College Libraries of Assam in academics during COVID - 19 Pandemic

Unindajyoti Choudhury

Abstract

The whole world had stopped due to the attack of Corona Virus. It gives sudden and unexpected outbreak to the every field including library service. The complete academic system was stopped and letterit run with online mode. The services of academic libraries also changed during the pandemic and it offered some new online services to the user. This study will explore the new services introduced by the college libraries of Assam, as well as the e-resources, applications, different tools used. Due to the effect of COVID – 19 Pandemic the libraries and information services played a catalytic role among the users to meet their needs. This paper also explore different website for free academic resources.

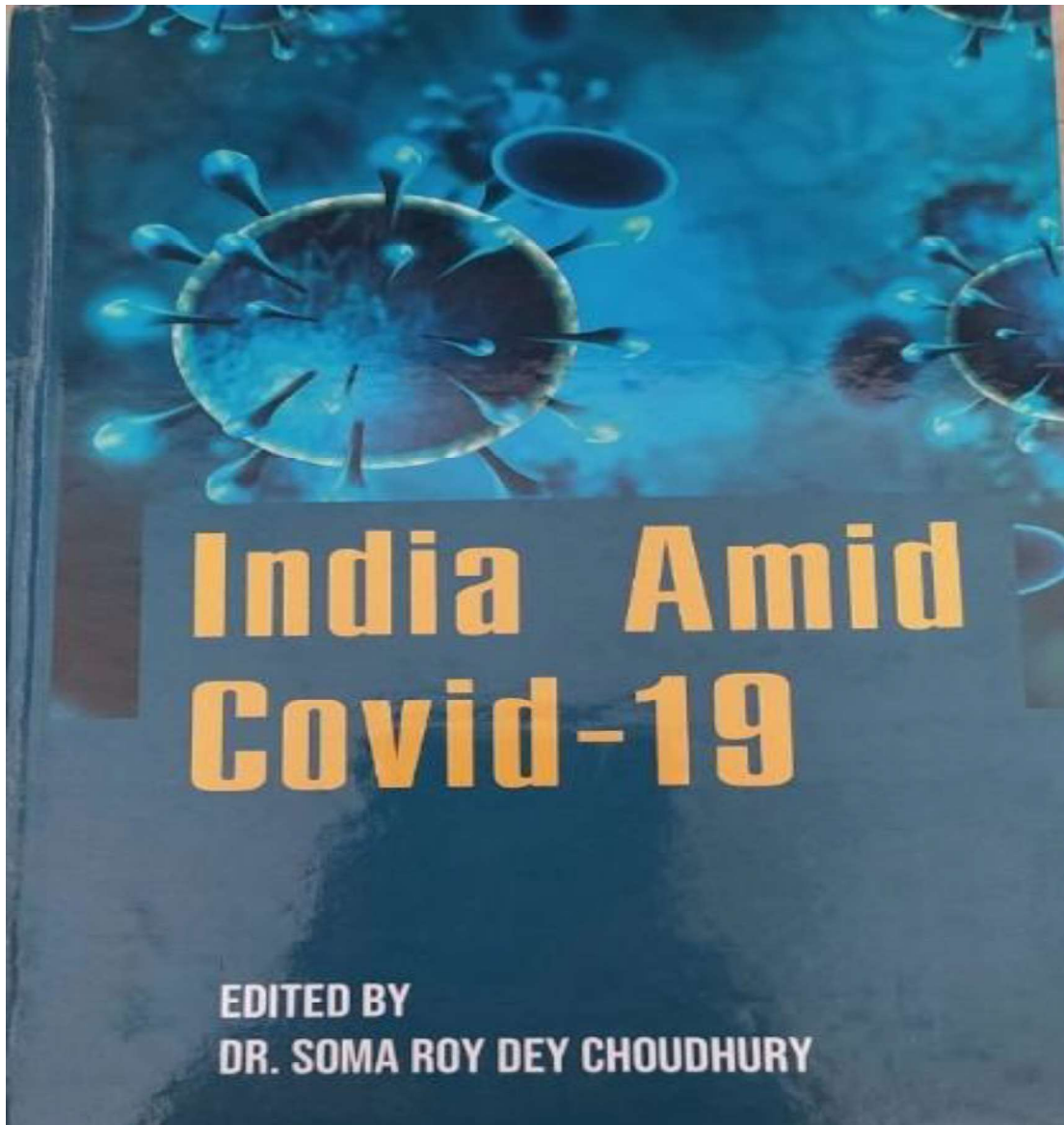
Keywords: - Library Services, COVID-19 Pandemic, Assam College Libraries, On line library Services.

Introduction

The COVID– 19 disease caused by the infection of SARS Cov -2, was first reported in Wuhan, china in December 31 2019^[5]. Modern globally connected world made the virus to quickly spread across the multiple countries. In India the first case was reported on 31, January 2020, the virus spread very fast in India and within two month it spread every part of the

Name of the author-Unindrajyoti Choudhury

Cover page



Content Page

Contents

Foreword
Preface

1. Impact of Covid-19 Pandemic and Sustainability Issues
— Dr. Atul Chandra Kalita 13
2. Pandemic and Transportation with Special Reference to Barak-Valley
— Banasree Purkayastha 28
3. A Study on the Influence of Digitalization in the Automobile Industry and Transformation in Behavior of Customers of Automobile Industry Due to Covid 19
— Barasha Bhuyan 33
4. Covid-19 Pandemic and its Impact on Education System in India
— Bikramjit Choudhury 41
5. Covid-19 Induced Psychological Distress and Indian Management Perspective
— Brig (Prof) Dr. JS Rajpurohit 67
6. Catalytic role of College Libraries of Assam in academics during COVID - 19 Pandemic
— Unindajyoti Choudhury 88

First page of the publication

Catalytic role of College Libraries of Assam in academics during COVID - 19 Pandemic

Unindajyoti Choudhury

Abstract

The whole world had stopped due to the attack of Corona Virus. It gives sudden and unexpected outbreak to the every field including library service. The complete academic system was stopped and letterit run with online mode. The services of academic libraries also changed during the pandemic and it offered some new online services to the user. This study will explore the new services introduced by the college libraries of Assam, as well as the e-resources, applications, different tools used. Due to the effect of COVID - 19 Pandemic the libraries and information services played a catalytic role among the users to meet their needs. This paper also explore different website for free academic resources.

Keywords: - Library Services, COVID-19 Pandemic, Assam College Libraries, On line library Services.

Introduction

The COVID - 19 disease caused by the infection of SARS Cov -2, was first reported in Wuhan, china in December 31 2019^[5]. Modern globally connected world made the virus to quickly spread across the multiple countries. In India the first case was reported on 31, January 2020, the virus spread very fast in India and within two month it spread every part of the

Year : 2022-2023

Name of the author/teacher-Dr Indrani Kalita

Cover Page

অসম নাট্য সন্মিলনৰ পত্ৰিকা
'বঙ্গমঞ্চ'

চতুৰ্থ সংখ্যা ■ জুলাই-ডিচেম্বৰ, ২০২২

Rangamancha

A Half yearly Journal of
ASOM NATYA SANMILAN
July-December 2022

সম্পাদক :

ড° সঞ্জীৱ কুমাৰ শৰ্মা

Editor :

Dr. Sanjib Kumar Sarma

সূচীপত্ৰ

- যাত্ৰা আৰু যাত্ৰাপাৰ্টিঃ এটি চমু আলোচনা ৷ ড° মালবিকা ভট্টাচাৰ্য/১৩
- লোকনাট্য যাত্ৰাব প্ৰাচীন ৰূপ আৰু অসমৰ লোকনাট্যানুষ্ঠান ৷ ধীৰেন শৰ্মা/১৭
- অভিনয়াচাৰ্য ব্ৰজনাথ শৰ্মাৰ নাট্য আন্দোলন আৰু বৰনগৰ ৷ বৰজিৎ দাস/২৪
- অসমৰ লোকনাট্য আৰু তিনিবিধ যাত্ৰা ৷ ড° বিনীতা বৰ দেৱচৌধুৰ/৫৯
- নলবাৰী জিলাত নাট্য চৰ্চা ৷ ড° লীনা ডেকা/৬৩
- আমাৰ নাট্য আন্দোলনৰ এটি দূষিত ধাৰা ৷ হেমাংগ বিশ্বাস
- বিপ্লবী শিল্পী ব্ৰজনাথ শৰ্মা ৷ সত্যপ্ৰসাদ বৰুৱা/৮৪
- বেইজিং অপেৰা ৷ শম্ভু গুপ্তা/৮৭
- টিকেড্ৰজিৎ— এটি সমীক্ষাত্মক আলোচনা ৷ ড° প্ৰণতি গোস্বামী/৯১
- ব্যঙ্গ নাটক : পোহনীয়া কুকুৰ ৷ ইন্দ্ৰানী কলিতা/১০৪
- মহেন্দ্ৰ বৰঠাকুৰ আৰু হিমেন্দ্ৰ বৰঠাকুৰৰ নাটকত নাৰী হৃদয় : আলোকপাত ৷ ড° নিশিগন্ধা তালুকদাৰ/১১৪
- অসমীয়া সামাজিক নাটকৰ সংলাপ : এটি আলোচনা ৷ ড° তুলিকা হাজৰিকা/১২৬

ব্যঙ্গ নাটক : পোহনীয়া কুকুৰ

ইন্দ্রানী কলিত্ৰা

ব্যঙ্গৰ অৰ্থ হ'ল বিক্ৰম বা সমালোচনা। এই বিক্ৰম বা সমালোচনাৰ কাৰণে লেখকে হাস্যৰসক অতলখন হিচাপে লয়। হাস্যৰসক ব্যঙ্গৰ এক মাধ্যমহে মূল উদ্দেশ্য নহয়। ব্যঙ্গৰ মূল উদ্দেশ্য হ'ল— "হাস্যৰ জৰিয়তে সমাজ তথা ব্যক্তিৰ দোষ-ত্রুটি দুৰ্বলতা আদিক আঙুলিয়াই দি সমালোচনা কৰা।" (কবিতাকুৰ সন্তোষ, অসমীয়া হাস্য-ব্যঙ্গ সাহিত্যৰ ঐতিহ্য, পৃ. ৩৩৩) হাস্য আৰু ব্যঙ্গৰ অতি নিকট সম্পৰ্ক। সুস্পষ্টভাৱে পৰ্যবেক্ষণ কৰিলেহে ইয়াৰ পাৰ্থক্য নিৰূপণ কৰাটো সম্ভৱ।

অসমীয়া প্ৰহসনৰ উদ্দেশ্য হাস্যৰস সৃষ্টি কৰা হ'লেও তাৰ মাজতে ব্যঙ্গ ভাৱে প্ৰবেশ নকৰাকৈ থকা নাই। অসমীয়া নাট্যকাৰেও অৰ্থাত্মিক পৰিবেশ আৰু পৰিস্থিতিৰ মাজেৰে ব্যঙ্গাত্মক দিশেৰেও প্ৰহসন ৰচনা কৰিছে। প্ৰহসনসমূহত সমাজ জীৱন বা ব্যক্তি বিশেষৰ বিসংগতিপূৰ্ণ কাৰ্যকলাপ হাস্য-ব্যঙ্গৰ জৰিয়তে দৰ্শকৰ সন্মুখত উপস্থাপন কৰিবলৈ প্ৰয়াস কৰা হয়। এই কৰ্ম সৰ্বজন জ্ঞাত যে এটা জাতিৰ জীৱন যাত্ৰাৰ গতি নিৰ্ণয়ত সাহিত্যই বিশেষ কৃমিকা গ্ৰহণ কৰে। সাহিত্য অবিহনে কোনো এটা জাতিৰ অস্তিত্ব নাই বুলি পাবি। নাটক সাহিত্যৰ এটা উল্লেখযোগ্য ভাগ। ই হ'ল পৰিবেশ্য কলা। এই কলাক একেলগে বহু দৰ্শকে উপভোগ কৰিব পাৰে। প্ৰহসনত উপস্থাপন কৰা বিষয়সমূহে দৰ্শকসকলৰ মনত, সমাজ জীৱন বা ব্যক্তিগত জীৱনত হৈ থকা বিসংগতিপূৰ্ণ কাৰ্যবোৰে প্ৰতিক্ৰিয়াৰ সৃষ্টি কৰে আৰু সহজে সিহঁতৰ বোধগম্য হয়। ফলস্বৰূপে নিপথগামী সমাজখন ৰক্ষা কৰিবলৈ বাবে দৰ্শকৰ মনত উত্তৰ উদ্ভ্ৰেক হয়। অসমীয়া প্ৰহসনৰ প্ৰায়কিলাক খেমাৰিৰ ছলেৰে সমাজখনৰ দোষ-ত্রুটিবোৰ সেদুৱাই দি তাক নিকা কৰাৰ উদ্দেশ্য নিহিত আছে।

ব্যঙ্গ সাহিত্যৰ ইতিহাসলৈ লক্ষ্য কৰিলে দেখা যায় যে অসমীয়া সাহিত্যত বুজিনিষ্ঠ হাস্য-ব্যঙ্গৰ আৰম্ভণি হয় আধুনিক যুগতহে। অসমীয়া

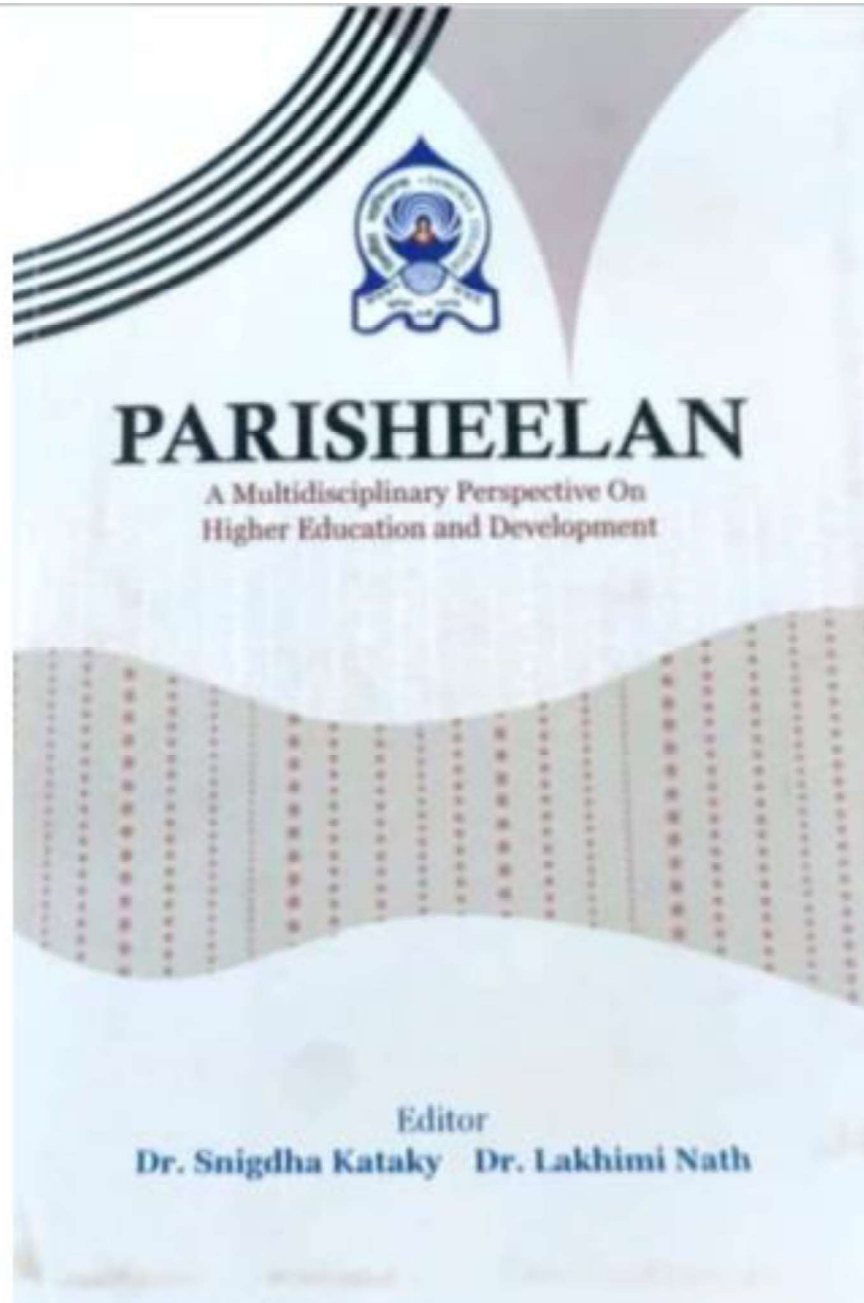


REDMI 9 POWER

॥ অসম নাট্য সমিতিৰ ইন্দ্রানী কলিত্ৰাৰ প্ৰথম পৰিচালিত "বঙ্গমঞ্চ" ॥

Name of the author/teacher-Dr Karabi Kherkatary Boro

Cover Page-



স্বাভাৱিক ভাষা প্ৰক্ৰিয়াকৰণত অসমীয়া ভাষাত পদ টেগিঙৰ প্ৰত্যাহ্বান	
১ ড° কৰবী খেৰকটাৰী বড়ো	
ভাওৱাইয়া-চটুকা লোকগীতৰ বিষয়বস্তু : এটি অধ্যয়ন	331
১ ড° স্নিদ্ধা কটকী	
অপূৰ্ব শৰ্মাৰ চুটি গল্প “শেষ দৌৰ”	
১ ডঃ সংযুক্তা বৰুৱা	346
চন্দনা গোস্বামীৰ পাটকাইৰ ইপাবে মোৰ দেশ : এক বিশ্লেষণাত্মক আলোচনা	
১ মিনাকী বৰুৱা	358
বাম গগৈৰ কবিতাত প্ৰকৃতি আৰু মানুহৰ সম্পৰ্ক : এক অধ্যয়ন	
১ ড° গীতিমণি হাটীমুৰীয়া	370
য়েছে দৰজে ঠংচিৰ উপন্যাসত লোকবিশ্বাস	
১ সনুম ভূষণ যোগী	383
অৰুণা পট্টনীয়া কলিতাৰ ‘পাছ চোতালৰ কথকতা’ — এক সমাজতাত্ত্বিক বিশ্লেষণ	
১ মীপা ভাগৱতী	393
বাস্তৱবাদ আৰু মূজন গল্পকাৰ	
১ শেখাৰী গোস্বামী	402
বসন্ত শইকীয়াৰ “অসুৰ” আৰু “মানুহ” নাটক : এটি আলোচনা	
১ বিম্পী বড়া	419
কৃত্ৰিম বুদ্ধিমত্তাৰ জগতত অসমীয়া ভাষাৰ স্থিতি-সম্ভাৱনা আৰু প্ৰত্যাহ্বান	
১ বিকাশ চেতিয়া	429
	438

স্বাভাৱিক ভাষা প্ৰক্ৰিয়াকৰণত অসমীয়া ভাষাত পদ টেগিঙৰ প্ৰত্যাহ্বান

ড° কৰবী খেৰকটাৰী বড়ো
সহকাৰী অধ্যাপক, অসমীয়া বিভাগ
প্ৰাগজ্যোতিষ মহাবিদ্যালয়

সংক্ষিপ্ত সাৰ

স্বাভাৱিক ভাষা প্ৰক্ৰিয়াকৰণত অসমীয়া ভাষাত পদ টেগিঙৰ প্ৰত্যাহ্বান। স্বাভাৱিক ভাষাৰ প্ৰক্ৰিয়াকৰণৰ কামত স্বাভাৱিক পদ টেগাৰ এক অতি আবশ্যকীয় উপাদান। ভাষা বিশেষে পদ টেগিঙত বহুতো সমস্যা বা প্ৰত্যাহ্বান আছে। কপদতভাবে অতি চহকী আৰু বৈচিত্ৰ্যপূৰ্ণ ভাষা হিচাপে অসমীয়া ভাষাৰ ক্ষেত্ৰত ই অধিক জটিল। আলোচনা পত্ৰখনত অতি সংক্ষেপে অসমীয়া ভাষাৰ পদৰ পৰিচয় আৰু পদসমূহৰ টেগচেট সম্পৰ্কে আলোচনা কৰাৰ লগতে ইয়াৰ সাক্ষাৎ সমস্যা তথা প্ৰত্যাহ্বান সম্পৰ্কে আলোচনা কৰা হ'ব।

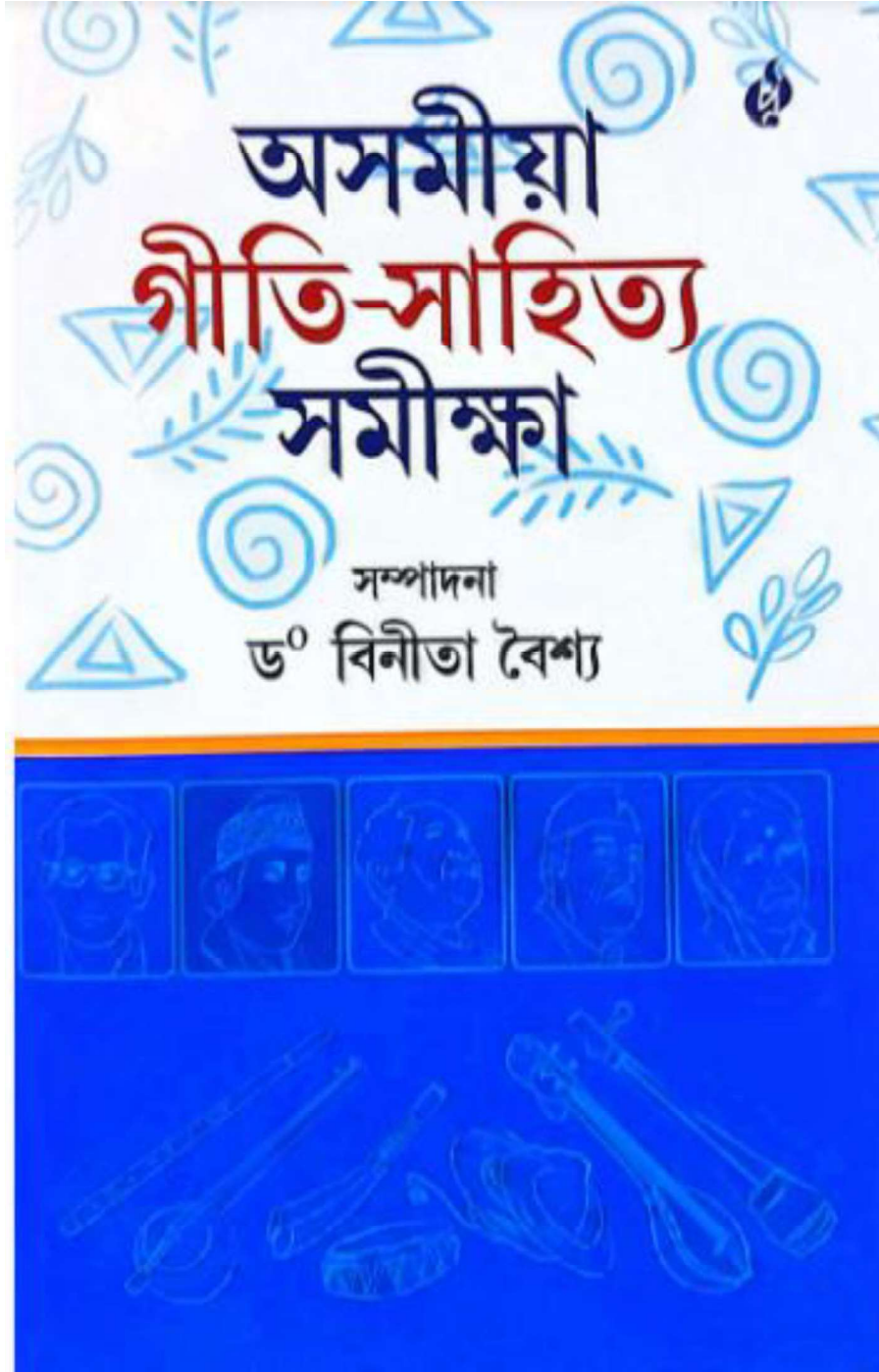
বীজশব্দ : কম্পিউটাৰগত ভাষাবিজ্ঞান, স্বাভাৱিক ভাষা প্ৰক্ৰিয়াকৰণ, পদ টেগাৰ।

পৰিচয়

বৰ্তমান সময়ত কম্পিউটাৰ মানুহৰ মৈনন্দিন জীৱনৰ এক এবাৰ নোৱাৰা সামগ্ৰীত পৰিণত হৈছে। চিকিৎসা বিজ্ঞান, জ্যোতিৰ্বিজ্ঞান, বসায়ন বিজ্ঞান, পদাৰ্থ বিজ্ঞান, প্ৰাণী বিজ্ঞান, পৰিসংখ্যা বিজ্ঞান, ভূ-বিজ্ঞান, মনোবিজ্ঞান আদি বিজ্ঞানৰ বিভিন্ন ক্ষেত্ৰৰ লগতে ভাষা-বিজ্ঞান, সাহিত্য, ব্যবসায়-বাণিজ্যৰ লগতে

Name of the author/teacher-Dr Tutumoni Das

Cover Page-



Content Page-

- লক্ষ্মীনাথ বেজবৰুৱাৰ নাটকৰ গীত : এক পৰ্যালোচনা
২৫ নৱনিতা তালুকদাৰ/১৪৭
- তিনিপৰ্বাকী প্ৰসিদ্ধ গীতিকাৰ আৰু তিনিটা নিৰ্বাচিত গীত : এটি আলোচনা
২৫ ড° কুন্দিলা গোস্বামী/১৬০
- ৰায়চাহাব বেগুধৰ ৰাজখোৱাৰ গীতৰ এক আলোচনা
২৫ ড° জ্যোতিৰেখা হাজৰিকা/১৮১
- কীৰ্তিনাথ শৰ্মা বৰদলৈৰ গীত : এটি আলোচনা
২৫ ড° গজুল কুমাৰ দাস/১৮৮
- অম্বিকাগিৰী ৰায়চৌধুৰীৰ গীত
২৫ ড° ধনেশ্বৰ কলিতা/১৯৯
- অসমীয়া গীতি-সাহিত্যলৈ কমলানন্দ ভট্টাচাৰ্যৰ অৱদান : এক আলোকপাত
২৫ জুনি কাশ্যপ/২১০
- মলিনীৰালা দেৱীৰ গীতত জীৱন এখনাৰ প্ৰতিফলন
২৫ ড° নমিতা চূতীয়া শইকীয়া/২২১
- গীতিকাৰ উমেশ চন্দ্ৰ দৌধাৰীৰ গীত : এটি দৃষ্টিপাত
২৫ অম্বিনী কুমাৰ শৰ্মা/২৩৪
- পাবতি প্ৰসাদ বৰুৱাৰ গীত : এটি আলোচনা
২৫ ড° জবা ঠাকুৰীয়া/২৪৭
- প্ৰসন্নলাল চৌধুৰীৰ গীতত লোক-সাংস্কৃতিক উপাদান
২৫ ড° সৰলা দাস/২৭০
- জ্যোতি প্ৰসাদ আগৰৱালাৰ গীত
২৫ ড° প্ৰণতি শৰ্মা গোস্বামী/২৮২
- জ্যোতিপ্ৰসাদ আগৰৱালাৰ গীতত শিশুসুলভ চিত্ৰণ : এটি বিশ্লেষণ
২৫ ড° টুটুমলি দাস/২৯৯
- জ্যোতিপ্ৰসাদ আগৰৱালাৰ নাটকৰ গীত : এটি আলোচনা
২৫ সুন্য বৰা/৩১৪
- অতুল চন্দ্ৰ হাজৰিকাৰ নাটকত গীতৰ প্ৰয়োগ : এক অধ্যয়ন
২৫ জ্ঞানশ্ৰী দত্ত/৩৩৪

জ্যোতিপ্ৰসাদ আগৰৱালাৰ গীতত
শিশুসুলভ চিত্ৰণ : এটি বিশ্লেষণ
১৯ জুলাই মাস

অৱতৰণিকা :

অসমীয়া গীতি-সাহিত্যৰ ইতিহাসত জ্যোতিপ্ৰসাদ আগৰৱালা এটি পৰিচিত নাম। পৰিচিহ্নিত তেওঁৰ গীতৰ জগতত থকা অনন্য অৱদানৰ বাবে। শংকৰদেৱৰ পিছত অসমীয়া গীতৰ সৰ্বক্ৰমত অৱস্থাৰ পৰা উদ্ধাৰ কৰি জ্যোতিপ্ৰসাদে আগৰৱালাই এক সুকীয়া ইতিহাস সৃষ্টি কৰিছিল। সেয়েহে অসমীয়া গীতি-সাহিত্যৰ আলোচনাৰ প্ৰসংগত জ্যোতিপ্ৰসাদৰ গীত আলোচনাৰ আনিকাত শীৰ্ষত বুলিলেও অত্যাতি কৰা নহ'ব। তেওঁৰ গীতবোৰত জাতীয়তাবোধ, ত্ৰুষ্টি-ঐতি, উৎসাহ আদিৰ সমন্বয়নকৈ আনি পোৱা যায় শিশুৰ প্ৰতি সচেতন মনোভাৱী। শিশুগীতৰ মাজেৰে প্ৰতিফলিত শিশু মনস্তত্ত্বমূলক চিন্তাধাৰাৰ বাবে জ্যোতিপ্ৰসাদৰ শিশুগীতবোৰৰ সাংগীতিক মূল্য অসীম কবিন নোৱাৰি। আমাৰ আলোচনাত জ্যোতিপ্ৰসাদৰ বচনৰৱলীত সন্নিৱিষ্ট নটক, প্ৰবন্ধ, গল্প আদিৰ তেওঁৰ টোকাবহীত লিখি বহু গীতসমূহৰ মাজৰ পৰা নিৰ্বাচিত কেইটামান শিশুসুলভ গীতৰ এটি বিশ্লেষণ কৰাৰ প্ৰয়াস কৰা হ'ব।

Name of the author/teacher- Dr Tutumoni Das

Cover Page-



1. অসমৰ অপেছদাৰী নাট্যদল আৰু কিছু প্ৰত্যাহ্বান
৯ ড° নিশিগন্ধা তালুকদাৰ / ১০৮
2. লক্ষ্মীনাথ বেজবৰুৱাৰ 'জয়ন্তী'
৯ ড° বিভাৰাণী দাস / ১১৬
3. একবিংশ শতিকাৰ অসমীয়া চুটিগল্পৰ গতি-বিধি
৯ ড° টুটুমণি দাস / ১২৪
4. মনোজ কুমাৰ গোস্বামীৰ 'নিৰ্বাক্ষৰ'
৯ ভাস্কৰ ভট্ট / ১৪৭
5. গীতা মোপাহীৰ গল্পত প্ৰতিফলিত নাৰী ভাবনা আৰু তেওঁৰ অলস
'দ্য নেকলেচ' গল্পৰ এটি আলোচনা
৯ শেয়ালী গোস্বামী / ১৬১
6. একবিংশ শতিকাৰ নিৰ্বাচিত অসমীয়া উপন্যাস
৯ মিনাকী বৰুৱা / ১৭০
7. সৃজনশীলতা 'নীৰৱতাৰ পৰা পাঠ্যক্রমলৈ'
৯ হিছোল কুমাৰ পাঠক / ১৮৯
8. উজল-পূৰ্বাঞ্চলৰ মৌখিক সাহিত্য
(তিৰা আৰু কাবৰি জনগোষ্ঠীৰ উল্লিখনেৰে)
৯ ড° ধীৰাজ পাটৰ / ১৯৭
9. পৰিবেশ্য কলাৰ অন্যতম অংগ বাদ্যযন্ত্ৰ : এটি পৰ্যালোচনা
৯ ড° পদ্মজ নমশূৰ / ২১০
10. দ্বিতীয়কতা : অসমৰ ভাষিক জনগোষ্ঠীসমূহ দ্বিতীয়ক হোৱাৰ কাণ্ড
৯ ড° অলকানন্দা শইকীয়া / ২১৮

একবিংশ শতিকাৰ অসমীয়া চুটিগল্পৰ গতি-বিধি

ড° টুটুমণি দাস

জন্মলগ্নৰে পৰা যি আধুনিকতা আৰু জনপ্ৰিয়তা লৈ চুটিগল্পই ক্ৰমান্বয়ে বিকাশৰ দিশত অগ্ৰসৰ হৈছিল, সেই জনপ্ৰিয়তা একবিংশ শতিকাতো বৰ্তি থকাটো শিল্প-সাহিত্যৰূপে চুটিগল্পৰ বিশেষ চমক। আলোচনী নিৰ্ভৰ অসমীয়া চুটিগল্পৰ একবিংশকালীন সময়ছোৱাত অসমীয়া সমাজৰ বিভিন্ন দিশৰ পৰিৱৰ্তনৰ ফলত চুটিগল্পৰ বিষয়বস্তুও অনেক সৃষ্টি হৈছে, চুটিগল্পকাৰৰ সংখ্যাও তুলনামূলকভাৱে বৃদ্ধি পাইছে। ব্যক্তি জীৱনৰ অবিচ্ছেদ্য অংগ হৈ পৰা সামাজিক মাধ্যমৰ গুৰুত্বও অসমীয়া চুটিগল্পৰ পট পৰিৱৰ্তনৰ অন্যতম কাৰক। সমান্তৰালকৈ বিশ্বায়নৰ অপ্ৰতিৰোধ্য সোঁতত ধাৰিত অসমৰ সমাজ জীৱনৰ বাবেও অসমীয়া চুটিগল্পৰ দৃশ্যপট সলনি হৈ পৰিল। মূলতঃ বিশ্বায়নৰ প্ৰভাৱ অসমৰ অৰ্থনৈতিক আৰু সাংস্কৃতিক ক্ষেত্ৰখনত এনেদৰে ব্যাপ্ত হৈ পৰিল যে তাৰ প্ৰভাৱত অসমৰ মানুহৰ জীৱন-শৈলী, চিন্তা-ধাৰা আদি সকলোতে পৰিৱৰ্তনৰ চাপ স্পষ্ট হৈ পৰিল। বিশ্বায়ন বা গোলকীকৰণে অনা পৰিৱৰ্তনৰ বাবে অসমৰ মানুহৰো জীৱনৰ অবিচ্ছেদ্য অংগ হৈ পৰিল সামাজিক মাধ্যম, বহিৰাগত সংস্কৃতিপ্ৰীতি, ইণ্টাৰনেট, মোবাইল ফোন, আদিবোৰ। তাৰোপৰি এই শতিকাৰ দ্বিতীয় দশকৰ প্ৰায় শেষৰ ফালে দেখা দিয়া অনাকাঙ্ক্ষিত পৰিস্থিতি ক'ভিডকালীন পৰিৱেশ। তলাবন্ধৰ দৰে

Name of the author/teacher- Dr Tutumoni Das

Cover Page-



Content page-

SLM Development Team

H.O. Department of Assamese, Gauhati University
Programme Coordinator, MA in Assamese, GUCDOE
Dr. Aparba K. Deka, Assistant Professor, GUCDOE
Mr. Dilan C.B. Das, Assistant Professor, GUCDOE

Contributors:

Dr. Biswajit Das Nagori Girls College, Nagori	Block:1 (Unit : 1)
Dr. Tamassani Das Pongyomdi College, Gowahati	Block:1 (Unit : 2)
Dr. Milan Neog ADP College, Nagori	Block:1 (Unit : 3), Block:4 (Unit : 1)
Dr. Aparba K. Deka GUCDOE	Block:1 (Units : 4, 5), Block :2 (Unit : 2)
Dr. Hari Prasad Baruah LOKD College, Dhokrajuli	Block:2 (Units : 1, 3)
Hemanta K. Das GLC College, Barpeta Road	Block:2 (Unit : 4)
Dr. Rachna Das KKH Govt. Sanskrit College, Gowahati	Block:2 (Unit : 5)
Dr. Dipasani Haloi Dept. of Assamese, GU.	Block:3 (Units : 1, 2, 3, 4, 5)
Dr. Saritirekha Bhuyan Gowhati College, Gowahati	Block:4 (Units : 2, 3)
Dr. Anurjyoti Talukdar Pandu College, Gowahati	Block:4 (Unit : 4, 5)

Content Editor:

Prof. Bibha Bharali Dept. of Assamese, Gauhati University

Format Editor

Dr. Aparba K. Deka Assistant Professor, GUCDOE

Course Coordination:

Dr. Debahari Talukdar Director, GUCDOE
Prof. Taraneer Deka Programme Coordinator, GUCDOE,
Dept. of Assamese, Gauhati University
Dr. Aparba K. Deka Assistant Professor, GUCDOE
Mr. Dipankar Saikia Editor SLM, GUCDOE

Typesetting & Cover Designing:

Bhaskar Jyoti Goswami GUCDOE
Nishanta Das GUCDOE

ISBN: 978-81-964928-0-9

July, 2023

© Copyright by GUCDOE. All rights reserved. No part of this work may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise.
Published on behalf of Gauhati University Centre for Distance and Online Education by the Director, and printed at Gauhati University Press, Gowahati-781014.



International Journal of Botany Studies
www.botanyjournals.com
ISSN: 2455-541X
Received: 16-05-2023, Accepted: 01-06-2023, Published: 17-06-2023
Volume 8, Issue 6, 2023, Page No. 30-35

Exploring the regulatory potential of zinc oxide nanoparticles for alleviating abiotic stress in crop plants

Sharmistha Sarma Kalita¹, Mami Das¹, Indrajit Kalita¹, Amit Kumar Pradhan²

¹ Department of Botany, Gauhati University, Gauhati, Assam, India

² Department of Botany, Praggyanish College, Gauhati, Assam, India

Abstract

Abiotic stress poses significant challenge against crop development by subjecting them to adverse environmental conditions. Nanoparticles acts as a promising tool for enhancing plant health and improving capacity to tolerate against both biotic and abiotic hindrances. Among the nanoparticles, zinc oxide nanoparticles has been testified to exhibit significant potential in mitigating stress in plants with Zinc as integral micronutrient for diverse physiological mechanisms. ZnO nanoparticles have been studied as a vital component for plant development, including nutrient uptake, physiological mechanisms and antioxidant activity. Along with its significance to plant growth, ZnO nanoparticles also possess advantageous properties such as low toxicity, cost-effectiveness, and compatibility with living organisms, distinguishing them from other types of metal oxide nanoparticles. However, along with its beneficial approach, its application in higher concentrations and prolonged exposure causes adverse consequences on plants. This review discusses to explore current findings of the potential of ZnO nanoparticles in modulating crops development and their potential in mitigating abiotic stressors.

Keywords: nanoparticles, zinc oxide, alleviation, abiotic stress

Introduction

Global agricultural production faces substantial challenges due to abiotic impacts like drought, metal toxicity, temperature effects, salinity and variations in light intensity. These stresses can lead to the generation of toxic compounds such as reactive oxide radicals, which, if not competently detoxified, can negatively impact soil quality, fertility, and various cellular processes crucial for crop growth and development. To mitigate the detrimental effects of abiotic stresses and enhance plant adaptation, researchers have explored numerous agricultural and physiological strategies (Abd El-ghany *et al.*, 2021). In the realm of agriculture, nanotechnology has gained attention to be a vital strategy in addressing various challenges and promoting sustainable farming practices. It has emerged as an innovative solution with potential benefits for mitigation of stress for sustainable improved crop development (Scheinman *et al.* 2021b).

Nanotechnology is a captivating and rapidly expanding field of study that has led to a number of novelties (El-Saadany *et al.*, 2020). In agreement, nanotechnology has been primarily employed in the development of nanofertilizers and nanopesticides, allowing precise control of nutrient levels, promoting growth, increasing yield, and enhancing stress tolerance in crops (Shang *et al.*, 2019; Elwan *et al.*, 2020) ¹⁶. The unique physicochemical properties of nanoparticles have led to their considerable significance in molecular investigations. These include their small size ranging from 1 to 100 nanometres, expansive surface area, heightened reactivity, and exceptional stability even in minute concentration (Sanzari *et al.*, 2019). Nanoparticles (NPs) thereby emerges as a vital component in regulating plant growth and development even at low concentrations. Their utilization can stimulate the management of plant stress by boosting radical detoxification capabilities and improving antioxidant

enzyme activity. These effects significantly contribute in controlling the physiological, biochemical, and metabolic activities in plants (Kumar *et al.*, 2022) ¹⁷. Notably, NPs is demonstrated to exert a crucial influence on plant stress responses, primarily by up-regulating its tolerance genes. (Munster *et al.*, 2022) ¹⁸. The unique physical, optical, and antibacterial features of zinc oxide nanoparticles (ZnO NPs) have captured considerable interest in scientific investigations. These unique properties have made ZnO NPs a subject of particular interest among the wide range of nanoparticle available (Sobry *et al.*, 2014) ¹⁹. ZnO NPs offers a diverse array of uses and advantages over other metal oxide NPs, including lower toxicity, affordability, and biocompatibility. The significant compatibility of ZnO NPs with existing pharmaceutical compounds also further enhances their potential for diverse applications in agriculture (Sahaley *et al.*, 2013).

Zinc oxide nanoparticles and its properties

Zinc oxide (ZnO) is a white, powdery odorless inorganic substance nearly insoluble in water (Buzukic *et al.*, 2008) ²⁰. In the recent days, ZnO has Zinc oxide (ZnO) has garnered significant interest due to its distinctive properties, abundant availability, and potential benefits with wide range of applications. It has been reported to possess varieties of properties such as enhanced reactivity with its small size and shape, optically active with wide bandgap, biomedical imaging, semiconducting behavior, photocatalytic activity, magnetic nano properties, antimicrobial properties, and drug delivery (Chauri and Matosasi, 2012) ²¹. The Food and Drug Administration has designated ZnO as a substance that is "generally recognized as safe (GRAS)" and applied as additive in food (Wang *et al.*, 2005). It has also been employed as sensors, energy producers, and catalysts because of their piezo- and pyroelectric characteristics (Wang *et al.*, 2005; Wang *et al.*, 2008).

Name of the author/teacher- Himadri Saikia

Cover page-

IJFMR

**International Journal
For
Multidisciplinary Research**

An International Open Access Peer Reviewed Journal

Volume Issue
4 6

November-December 2022

ijfmr.com
 editor@ijfmr.com
 +91 87 585 383 22

E-ISSN: 2582-2160

9 772582 216018

First page of the publication-



International Journal for Multidisciplinary Research (IJFMR)

E-ISSN: 2582-2160 • Website: www.ijfmr.com • Email: editor@ijfmr.com

Ethnomedicinal Survey and a Quantitative Analysis of Bioactive Plants Used by Sonowal Kachari Community of Assam

Himadri Saikia¹, Nabanita Maity², Mahuya Sengupta^{2*}

^{1,2,3}Department of Biotechnology, Assam University, Silchar, Assam, India- 788011

*Corresponding author: senguptamahuya35@gmail.com

Abstract

Background

In recent times, cases of infectious and malignant diseases are increasing in an exponential manner. The treatments to these diseases face drawbacks of specificity and high costs. Due to this, many patients seek alternative or complementary methods of treatment. Ethnomedicine is the first and foremost choice in this regard. However due to cultural belief no proper documentation with scientific validation is available. The present study intended to validate the potentiality of the ethnomedicinal plants of Sonowal Kachari community of Assam, quantitatively and qualitatively along with a few bioactivity studies of oxidative stress and antioxidant defenses in a murine immune model.

Methods

The study was based on extensive ethnomedicinal field survey for 1 year period from 2015-2016. Data was analysed and most potent plant was short listed using disease consensus index (DCI), phytochemical screening and 2,2-diphenylpicrylhydrazyl (DPPH) assay. An effective dose was determined by calculating IC₅₀ with 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction (MTT) assay in murine splenic macrophages. Bioactivity were studied in lipopolysaccharide (LPS) stimulated murine splenic macrophages for oxidative stress and antioxidant parameters.

Results

From the preliminary quantitative and qualitative screening it was found that *Oroxylum indicum* methanol extract (OIM) has a potent antioxidant activity. Based on IC₅₀ (inhibitory concentration for 50% viability) value a working dose of 4.76 µg/ml was determined. The oxidative stress and antioxidant parameters show high free radical scavenging activity of OIM.

Conclusion

Systemic pharmacological trials in present study validate the active bioactive potential of the ethnomedicinal plant as per scientific standards.

Keywords: Ethnomedicine, Oxidative stress, Antioxidant, Sonowal Kachari.

Name of the author/teacher-Uddipta Nayan Medhi

Cover page-



Content page

CONTENTS		Page No.
S.No	Name of Title	
1	AN INQUIRY ON THE IMPACT OF KNOWLEDGE SHARING BEHAVIOUR OF FACULTY ON KNOWLEDGE ACQUISITION BY UNDERGRADUATE STUDENTS – TIRUCHIRAPPALLI CITY	1
2	THE AFFINITY OF ACADEMIC AND BEHAVIOURAL TRAITS OF HIGHER EDUCATION STUDENTS TOWARDS PINK-BLUE COLLAR PROFESSION	8
3	ACCULTURATION AND THE IMPACT OF MEDIA ON THE SOCIO-CULTURAL CHANGES OF THE MISING TRIBE OF ASSAM	18
4	SAVING FOR RETIREMENT: INVESTMENT STRATEGIES AND RISK MANAGEMENT	24
5	INDIA'S GOLDBLOCKS DILEMMA IN NUCLEAR TRIPARTITE DETERRENCE	34
6	FROM "DAMNED AFFLUENT" TO "CELEBRATED ENTREPRENEURS": METAMORPHOSIS OF PERCEPTION OF BILLIONAIRES AND IMPLICATIONS ON DEMOCRACY IN INDIA	41
7	THE CONCEPT OF WELL-BEING: HEALTH AND QUALITY OF LIFE	49
8	DOES CUSTOMER BRAND ENGAGEMENT AFFECTS BRAND LOYALTY?: AN EMPIRICAL STUDY IN PRESENCE OF CUSTOMER TRUST WITH REFERENCE TO TWO WHEELER MARKET IN HYDERABAD	54
9	A STUDY ON THE EFFECTIVENESS OF ARIMA TIME SERIES MODELLING IN PREDICTING STOCK PRICES	66
10	A STUDY ON IMPACT OF INSTITUTIONAL SUPPORT TO AGRIBUSINESS WITH SPECIAL REFERENCE TO FOOD PROCESSING INDUSTRY	79
11	TRENDS OF MIGRATION AND ITS IMPACT ON URBAN SYSTEM IN NORTH-BIHAR	88
12	PORTABLE GLOVE FOR GESTURE TO SPEECH AND TEXT CONVERSION	98
13	THE ROLE OF FINTECH IN BANKING	101
14	A STUDY OF MARKETING TECHNIQUES ADOPTED BY APPAREL BUSINESSMEN	104
15	FINANCIAL LITERACY AND FINANCIAL PLANNING AMONG TEACHERS OF HIGHER EDUCATION	111
16	COMPARISON OF INVESTMENT PREFERENCES BETWEEN SALARIED AND SELF-EMPLOYED INDIVIDUALS IN FIXED INCOME SECURITIES	116
17	A STUDY ON IMPACT OF NEW TAX REGIME ON INVESTMENT PATTERN OF SALARIED EMPLOYEES IN MUMBAI	126
18	A STUDY ON IMPACT OF INFLUENCER MARKETING ON THE BUYING BEHAVIOUR OF THE CONSUMERS WITH SPECIAL REFERENCE TO CONSUMER DURABLE GOODS	132

SOUTH INDIA JOURNAL OF SOCIAL SCIENCES
ISSN: 0972 - 8945

SAVING FOR RETIREMENT: INVESTMENT STRATEGIES AND RISK MANAGEMENT

¹Uddipta Nayan Medhi, Research Scholar, Assam Down town University, Assam

²Dr. Homewar Goswami, Professor, Commerce & Management Dept. Assam Down Town University, Assam

Abstract

Saving for retirement is a crucial aspect of personal finance that requires effective investment strategies and risk management. There are various investment vehicles available for retirement savings, including stocks, bonds, mutual funds, and real estate, each with its unique risk and return characteristics. Diversification across different asset classes and investments is essential to mitigate risk and maximize returns. Additionally, it is crucial to have a long-term investment horizon, as retirement savings are typically a multi-decade endeavor. Consistent contributions to retirement accounts, such as 401(k)s and IRAs, are also crucial to achieving retirement goals. Risk management is also a critical aspect of retirement planning. It involves identifying and managing different types of risks, such as market risk, inflation risk, longevity risk, and sequence risk. Strategies such as asset allocation, portfolio rebalancing, and the use of annuities can help mitigate these risks and ensure a sustainable retirement income stream. Finally, seeking professional financial advice and staying informed about market trends and developments can help investors make informed investment decisions and effectively manage risks.

Keywords: Retirement planning, Investment strategies, Risk management, Asset allocation, Diversification, Lifecycle investing, Target-date funds, Longevity risk, Sequence-of-returns risk, Portfolio rebalancing, Modern portfolio theory

1 Introduction

A. Importance of saving for retirement

Retirement is a phase of life that many individuals look forward to, as it represents a time of relaxation and the freedom to pursue personal interests. However, to ensure a comfortable and financially secure retirement, it is crucial to start saving early and adopt effective investment strategies.

The importance of saving for retirement cannot be overstated. With increasing life expectancy and the uncertainty of government-funded pension systems, individuals are increasingly responsible for funding their own retirement. Saving for retirement allows individuals to maintain their standard of living, cover healthcare expenses, and pursue their desired lifestyle during their non-working years.

B. Significance of investment strategies and risk management

Investment strategies play a pivotal role in retirement planning. They involve making informed decisions about where to invest savings, how to allocate assets, and the overall approach to grow and protect the retirement nest egg. Effective investment strategies can help individuals accumulate wealth and generate income during retirement.

Risk management is an integral part of retirement planning as well. The future is uncertain, and various risks can impact retirement savings. These risks include market volatility, inflation eroding purchasing power, the risk of outliving savings (longevity risk), and the impact of market downturns (sequence risk). Implementing risk management strategies can help safeguard retirement savings and ensure a stable income stream throughout retirement.

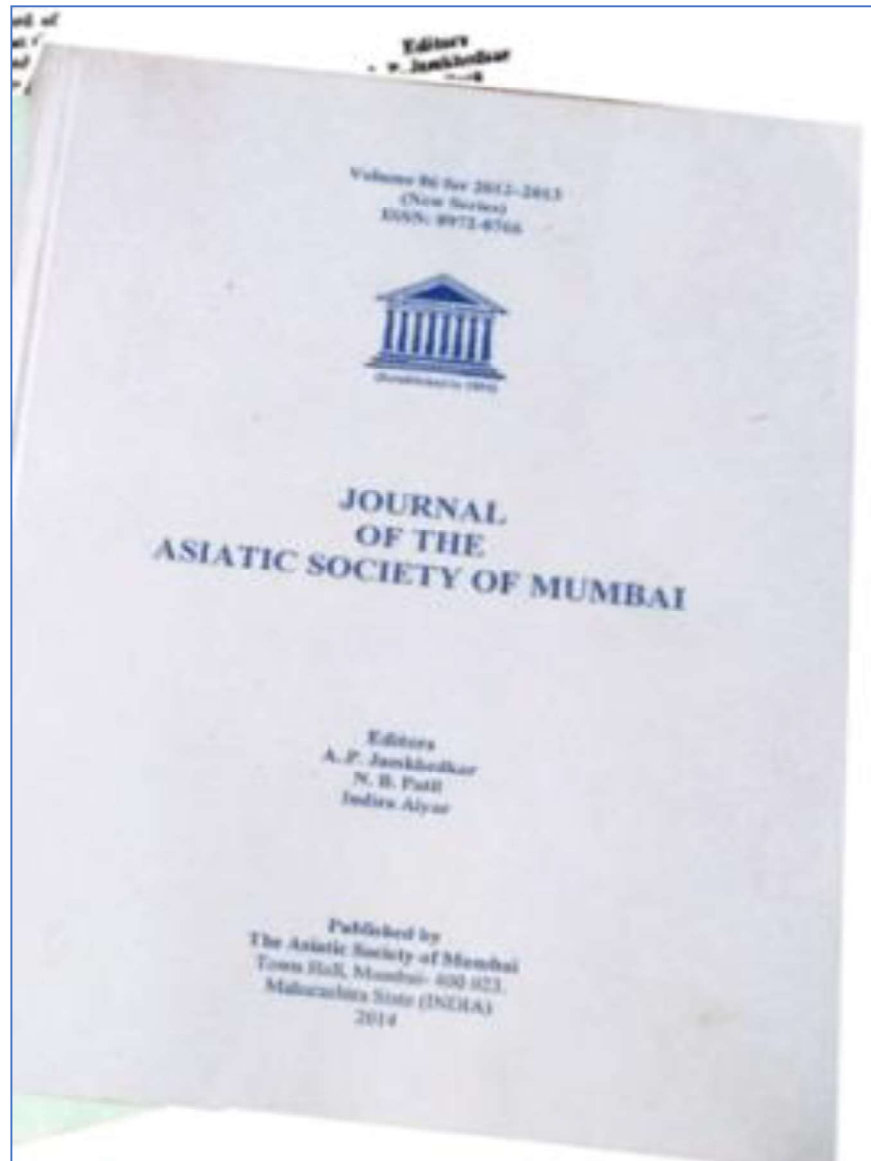
By combining investment strategies and risk management, individuals can optimize their retirement savings, mitigate potential risks, and increase the likelihood of achieving their desired retirement goals. The following sections will delve into specific investment strategies, risk management techniques, and other factors that contribute to successful retirement planning.

B. Significance of investment strategies and risk management

Saving for retirement is not just about setting aside money; it also requires thoughtful investment strategies and effective risk management. Here's why investment strategies and risk management are

Name of the author/teacher- Uddipta Nayan Medhi

Cover page-



Content page

JOURNAL OF
THE ASIATIC SOCIETY OF MUMBAI

Volume 96 for 2023

CONTENTS

S.No	TITLE	Page No.
1	DIGITAL PEDAGOGIES FOR EFFECTIVE TEACHING – TEACHERS' PERSPECTIVE	1
2	"INFLUENCE OF GREEN MARKETING IN SUSTAINABLE DEVELOPMENT"	7
3	IMPACT OF IMPULSE BUYING ON GEN Z CONSUMER PURCHASE INTENTION: AN EMPIRICAL INVESTIGATION.	11
4	AUTOMATION OF FINANCIAL STATEMENT ANALYSIS OF KERALA MINERALS AND METALS LTD	17
5	EFFECTIVENESS OF AYUSHMAN BHARATH PRADHAN MANTRI JAN AROGYA YOJANA (PM-JAY): A STUDY SPECIAL REFERENCE TO BENEFICIARIES OF MYSORE DISTRICT	24
6	A STUDY CUSTOMERS PERSPECTIVE DURING MARKETING CRISIS ON ONLINE SHOPPING SERVICES IN POST COVID-19 SCENARIO IN MYSORE CITY OF KARNATAKA	31
7	A MULTIDIMENSIONAL ISSUE OF CORPORATE SOCIAL RESPONSIBILITY: A STUDY WITH SPECIAL REFERENCE TO L&T PRIVATE LIMITED., MYSORE	38
8	IMPLICATIONS OF COVID -19 ON JOB ENRICHMENT AND ORGANIZATIONAL CULTURE: A STUDY OF IT SECTOR	44
9	A STUDY ON FACTORS INFLUENCING MATERNAL HEALTH AND CHILD CARE SERVICES IN PRIMARY HEALTH CENTRES (With Special Reference to Erode District, Tamilnadu)	49
10	STUDY OF THE EFFECTIVENESS OF ONLINE MARKETING	56
11	ANALYSIS OF STATUS OF NORTH INDIAN ENTREPRENEURS IN ERODE TOWN	60
12	"SAVING AND BANKING HABITS AMONG THE TRIBAL WOMEN WITH SPECIAL REFERENCE TO SONAPUR AREA OF KAMRUP METROPOLITAN DISTRICT"	65
13	THE EFFECTIVENESS OF MINDFULNESS ON OBSESSIVE AND COMPULSIVE DISORDER PATIENT: A SINGLE CASE STUDY	79
14	VOTING SYSTEM USING FINGERPRINT IDENTIFICATION	85

First page of the publication-

62 JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI ISSN: 0972-0266, Vol. XXXV, No.11, 2023
"SAVING AND BANKING HABITS AMONG THE TRIBAL WOMEN WITH SPECIAL
REFERENCE TO SONAPUR AREA OF KANHEJ METROPOLITAN DISTRICT"

Ushipta Nayak Hathi, Research Scholar, Assam Down Town University, Assam
Dr. Homayun Goswami, Professor, Dept. of Commerce & Management, Assam Down Town
University, Assam

Introduction

Through employment and literacy, women are empowered. Women work to support the family by contributing some high-quality resources, which makes it easier to satisfy financial obligations and lessen financial stress. However, it is simply the greatest solution for short-term issues. They are aware that financial services are available from both public and private entities to help them save their earnings. This study aims to examine the limitations placed on women's saving and banking behaviors, particularly those of tribal women.

The goal of the current study is to learn more about the banking practices, saving behaviors, and issues experienced by tribal women in Sonapur Area of Kanhej Metropolitan District. The primary goal of the study is to understand how people specifically tribal women with low incomes manage their spending and savings. It is also notable that education plays an important role regarding the saving and investment habits.

Some of the world-renowned women educationists and their brief contributions are as follows:

Jane Elliott, a third-grade school teacher, conducted the "Brown Eyes/Blue Eyes" exercise to teach her all-white class about racial discrimination, leading to pioneering work in diversity training.

Kerida Thorpe, a 12th-grade English teacher, focuses on opening pathways to college education for low-income, first-generation American, immigrant, and refugee students.

Maria Montessori, an Italian doctor of medicine, developed a unique educational philosophy and established the Children's House, implementing practical activities and self-directed learning.

Septima Poinsette Clark played a crucial role in setting up citizenship schools that helped African Americans register to vote and fought against discriminatory rules.

Maggie MacDonnell worked in a remote village in the Canadian Arctic, empowering her students through community initiatives and teaching resilience and life skills.

These women teachers have had a significant impact on education and have worked towards improving society through their dedication to teaching and empowering students.

Background

The conceptual background of savings and banking can be summarized as follows:

Savings serve various purposes: Savings are important for individuals and households as they support long-term financial goals such as home ownership and education, provide a safety net for emergencies, and contribute to overall financial stability and security.

Interest and returns: When individuals deposit their savings in banks, they often earn interest on those deposits. Banks use customers' deposits to lend and invest, generating profits that are shared with depositors. Over time, savings can grow through the accumulation of interest.

Financial intermediation: Banks play a crucial role as financial intermediaries by connecting savers who have surplus funds with borrowers who need capital. They mobilize individual savings and direct them towards productive investments, thereby promoting economic growth and development.

Safety and security: Keeping money in a bank offers a higher level of safety and security compared to holding cash at home. Banks employ robust security measures, provide insurance protection for deposits, and operate under regulatory control, reducing the risk of theft or loss.

Accessibility and convenience: Banks offer a range of services and products that make managing savings more convenient. These include checking accounts for day-to-day transactions, mobile and internet banking services for ease of access, and automatic savings plans that encourage

Name of the author/teacher- Uddipta Nayan Medhi

First page of the publication-



Name of the author/teacher- Uddipta Nayan Medhi

Cover page-



CONTENT.....

1. Applying Neural Networks for Loan Approval in the Commercial Banking System : A Machine Learning Approach 19
 ✎ **Dr. Masih Saikia**
2. Workforce Diversity Management: A Review 28
 ✎ **Aparajita Neog**
3. Green Human Resource Management Practices in Indian organizations 36
 ✎ **Bipasha Das**
4. The Impact of Management Accounting on Financial Performance 45
 ✎ **Diganta Talukdar & Imran Yasin Ali**
5. The Role of AI in Accounting and Finance: A study on Current Trends and future implication 50
 ✎ **Uddipta Nayan Medhi**
6. Role and use of Statistics in Commerce 60
 ✎ **Dimpi Barman**
7. Analysis of Rural Weekly Market: A case study of Rangia biweekly market, Kamrup District of Assam 63
 ✎ **Dr. Tirthankar Sarma & Semima Elahi**

The Role of AI in Accounting and Finance: A study on Current Trends and future implication

Uddipta Nayan Medhi,
HoD, Dept. of Accountancy, Pragjyotish College

ABSTRACT

Artificial Intelligence (AI) has emerged as a transformative technology in various sectors, including accounting and finance. This paper explores the evolving role of AI in reshaping traditional practices within these fields. The paper provides an overview of AI technologies utilized in accounting and finance, highlights the benefits and challenges, and discusses the potential future implications for professionals, organizations, and the industry as a whole.

Keywords: AI, Implication, benefits, evolution future

1. INTRODUCTION:

In recent years, advancements in AI have significantly impacted numerous industries, and accounting and finance are no exceptions. AI technologies, such as machine learning, natural language processing, and robotic process automation, have introduced new possibilities for automation, data analysis, and decision-making. This paper aims to shed light on the evolving landscape of AI in accounting and finance, examining its current applications, advantages, challenges, and potential future developments.

2. OBJECTIVES :

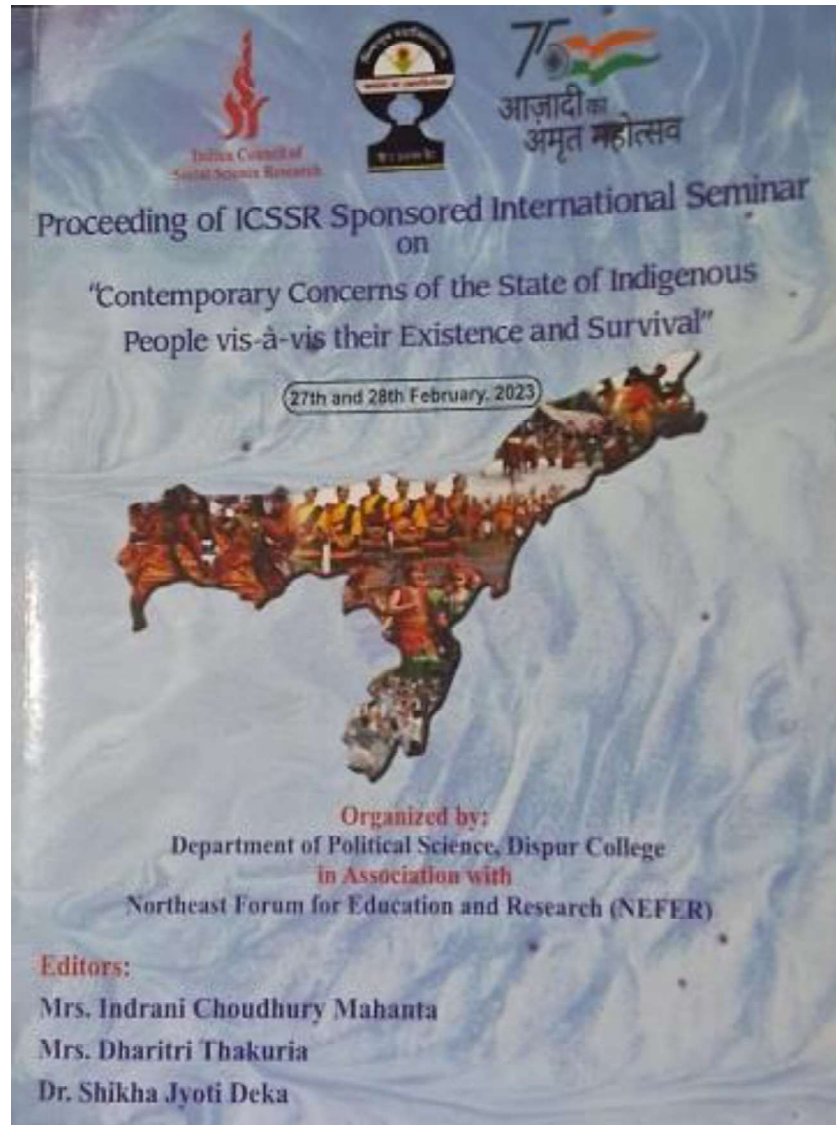
- a. Evolution & Implication of AI in accounting and Finance
- b. Benefits & Challenges of implication of AI
- c. Future implication of AI

3. EVOLUTION OF AI:

Alan Turing, the father of computer science, predicted in 1947 that by the end of the

Name of the author/teacher- Uddipta Nayan Medhi

Cover page-



Content page-

26.	Impact of COVID-19 on Indigenous People: An Analysis <i>Uddipta Nayan Medhi, Rajib Kumar Talukdar</i>	221-226
27.	A Brief Study of Cultural Heritage of Tiwa Tribe of North-Eastern India <i>Nur Samima Begum</i>	227-232
28.	'Ali-Aye-Ligang' and Porag': The epitome of the Cultural Mores of the Mising people <i>Dr. Saswoti Baruah Bhuyan</i>	233-236
29.	The Status of Religion and Culture in the Karbi Society <i>Dr. Kanan Medhi Patgiri</i>	237-241
30.	Social Life of the Deories of Assam: An Overview <i>Dr. Tasrina Hussain</i>	242-245
31.	Climate Change and Indigenous People: Causes, Consequences and Measures on Climate Change <i>Rashmi Barman</i>	246-253
32.	Empowerment of Indigenous Women of Assam: A Contemporary Analysis <i>Bagmita Borthakur, Snigdha Jonak Hazarika, Jannat Ara Mazumdar</i>	254-261
33.	Indigenous Women of Assam: Through Hardships of Market, Nature and Culture <i>Ms. Niharika Saikia</i>	262-268

Impact of COVID-19 on Indigenous People: An Analysis

Uddipta Nayan Medhi¹, Rajib Kumar Talukdar²

¹Asst. Professor, Praggyorah College

²Asst. Executive engineer

E-mail: uddiptanayan@gmail.com, rajib.talukdar10@gmail.com

Abstract

During COVID-19 pandemic, firstly India announced JANTA CURFEW and thereafter a 21-day lockdown on 24 March, which was extended until 31 May 2020. After that, partial lockdown imposed on the residents of India in different segments/names in different area depending upon the number of people affected. The pandemic and the lockdown severely affected the livelihoods, health of indigenous peoples in India, who are also referred to as ADIVASHI (original inhabitants) / tribal people, or as Scheduled Tribes of India. Being indigenous people (Adivashi) their traditional livelihoods are mainly based on land. Indigenous peoples in India also continued to face a threat to their rights to land and identity, as several incidents of forced eviction were reported during the lockdown.

During that pandemic time, some states such as Assam, Chhattisgarh, Kerala, Tamil Nadu etc., where the numbers of indigenous people are more, they announced specific relief measures for indigenous peoples, including the distribution of food and essential items, and to some extent of financial support.

India's maximum numbers of indigenous populations live in remote areas with poor healthcare support facilities. During that time they are also lack of timely awareness to efficiently deal with the COVID-19 outbreak due to various reasons. Lack of education, lack of contact to outside world, are the main reasons among all reasons. Also, the lack of access to adequate health care facilities and the scarcity of access to clean water, sanitation, and personal protective equipment have made the indigenous populations more vulnerable towards the pandemic. It is very disturbing that during that pandemic period no baseline data are available for over 50% of the vulnerable indigenous groups. Therefore, the indigenous communities are under immense threat from COVID-19 than other communities. Out of 550 indigenous group, there are 75 highly vulnerable groups that continue to follow the hunter-gatherer way of life. They have minimal contact with outside leading to low education, less socio-economic progress and so COVID-19 pandemic affects them very badly. By early March 2021, India had recorded over 11.4 million infected cases of COVID-19 with 159,000 deaths.

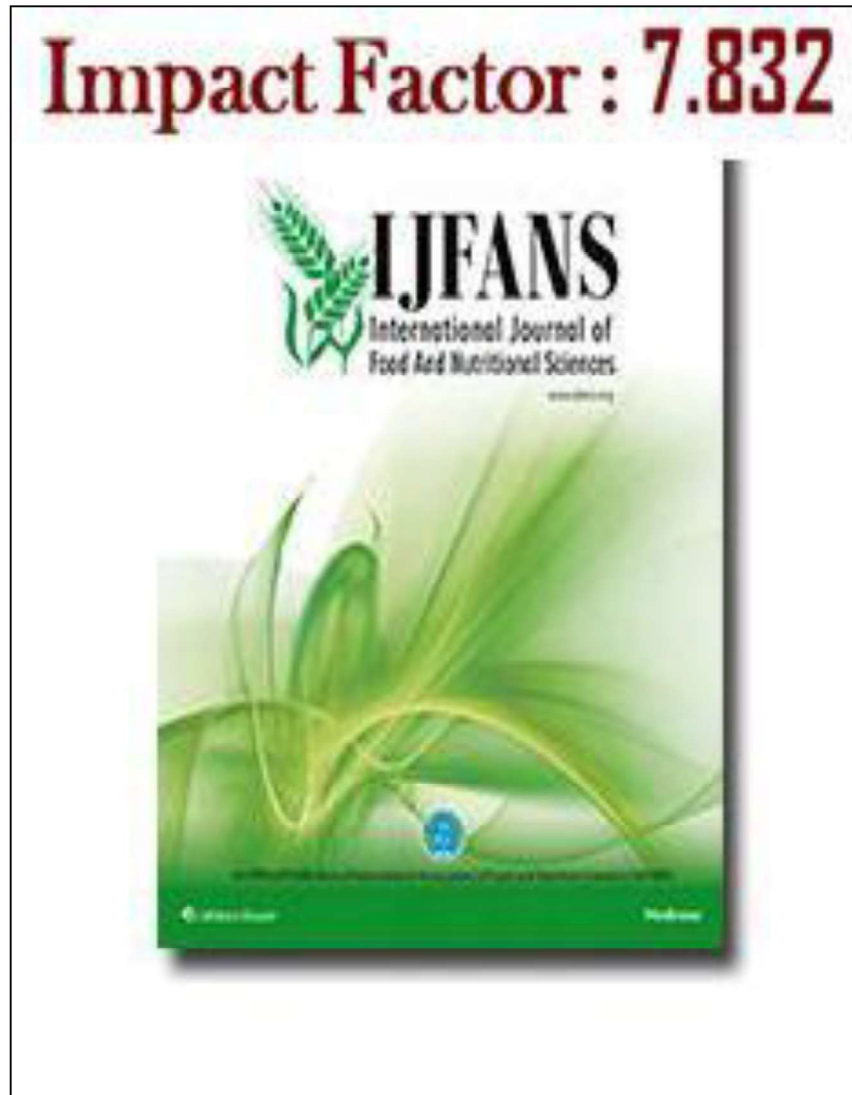
Keywords: COVID-19, Adivashi, lockdown, reasons.

Introduction

During COVID-19 pandemic, firstly India announced JANTA CURFEW and thereafter a 21-days lockdown on 24 March, which was extended until 31 May 2020. After that, partial lockdown imposed on the residents of India in different segments in different area depending upon the number

Name of the author/teacher- Gaurav Das

Cover page-



Content page- <https://ijfans.org/issue-content/the-protagonist-of-tea-garden-youth-in-sustainable-development-in-assam-5244>

First page of the publication-

IJFANS International Journal of Food and Nutritional Sciences

ISSN-PRINT 2319-1775 Online 2320-7876

Research paper © 2021 IJFANS. All Rights Reserved. IJFANS, An International Journal, Volume 11, No 12, Dec 2021

The Protagonist of Tea Garden Youth in Sustainable Development in Assam

Bosco Ekka¹, PhD scholar, social work department, Assam University, Silchar,
sdbboscoekka@gmail.com

Gaurav Das², PhD scholar, Mizoram University,
gauravdas2010@gmail.com

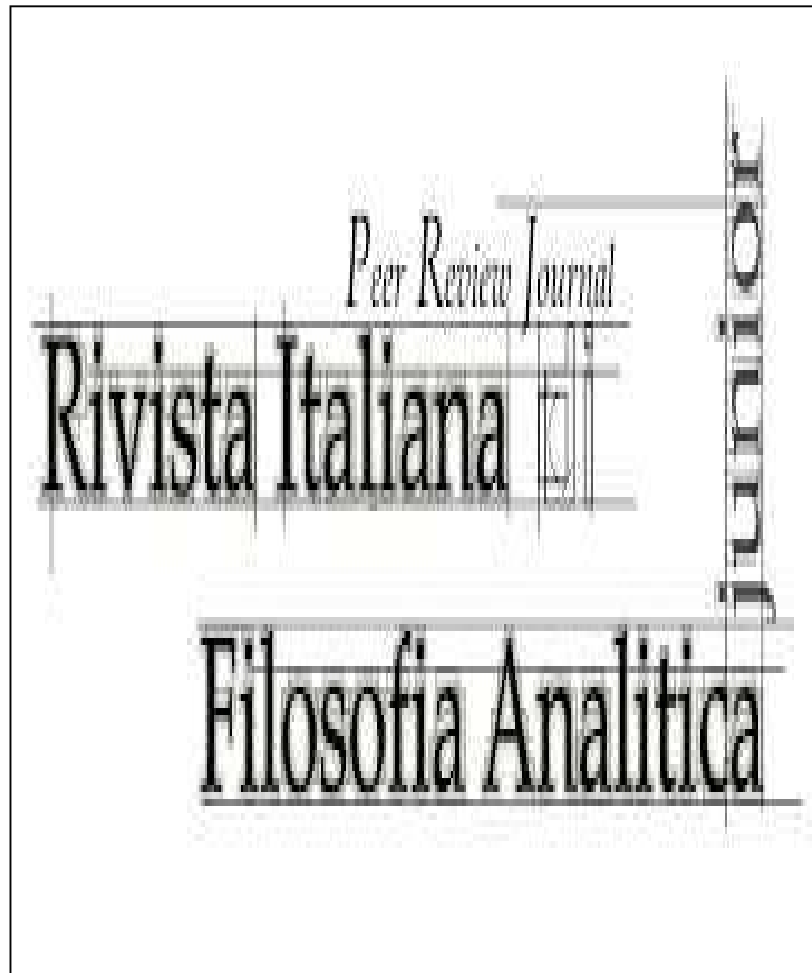
Abstract:

In the scientific community, review articles provide an overview of a particular field. Youth involvement in Assam's tea gardens and their contribution to sustainable development is explored in this review article. The paper examines society, the environment, and culture of tea gardens from the point of view of young people. Environmental conservation, social development, and economic empowerment are highlighted in the article. It focuses on youth's role in supporting sustainable agriculture, community development, and overall well-being within tea gardens. A systematic review of existing literature identifies key success factors, challenges, and gaps in the involvement of tea garden youth in sustainable development. Youth engagement in the tea industry, local communities, and regional sustainable development goals are explored. Additionally, the article provides recommendations for policymakers, stakeholders, and tea garden managers. Tea garden youth need targeted interventions, capacity building, education, and empowerment programs to ensure a sustainable future. Ultimately, this article seeks to provide an in-depth analysis of tea garden youth in Assam's sustainable development. It aims to inspire further research and action by synthesizing existing research and identifying key areas for improvement.

Keywords: Youth, Protagonist, Tea garden, Assam, Sustainable development

Name of the author/teacher- Gaurav Das

Cover page-



Content page- <https://rifanalitica.it/index.php/journal/article/view/163>

First page of the publication-

**“Unveiling the Significance of Sustainability in Tourism:
Environmental Conservation, Socioeconomic Development, and
Destination Resilience”.**

Bosco Ekka,
Research scholar,
Assam University Silchar,
sdbboscoekka@gmail.com

Gaurav Das,
Research Scholar,
Mizoram University, Aizwal,
gauravdasnis@gmail.com

Mohd Aarif
Editor- Publishing
GRN Publication, Noida, India
dmohd03@gmail.com

Ali Alalmal
Doctor of Hospitality Administration
Professor (Associate) at Jazan University, Saudi Arabia

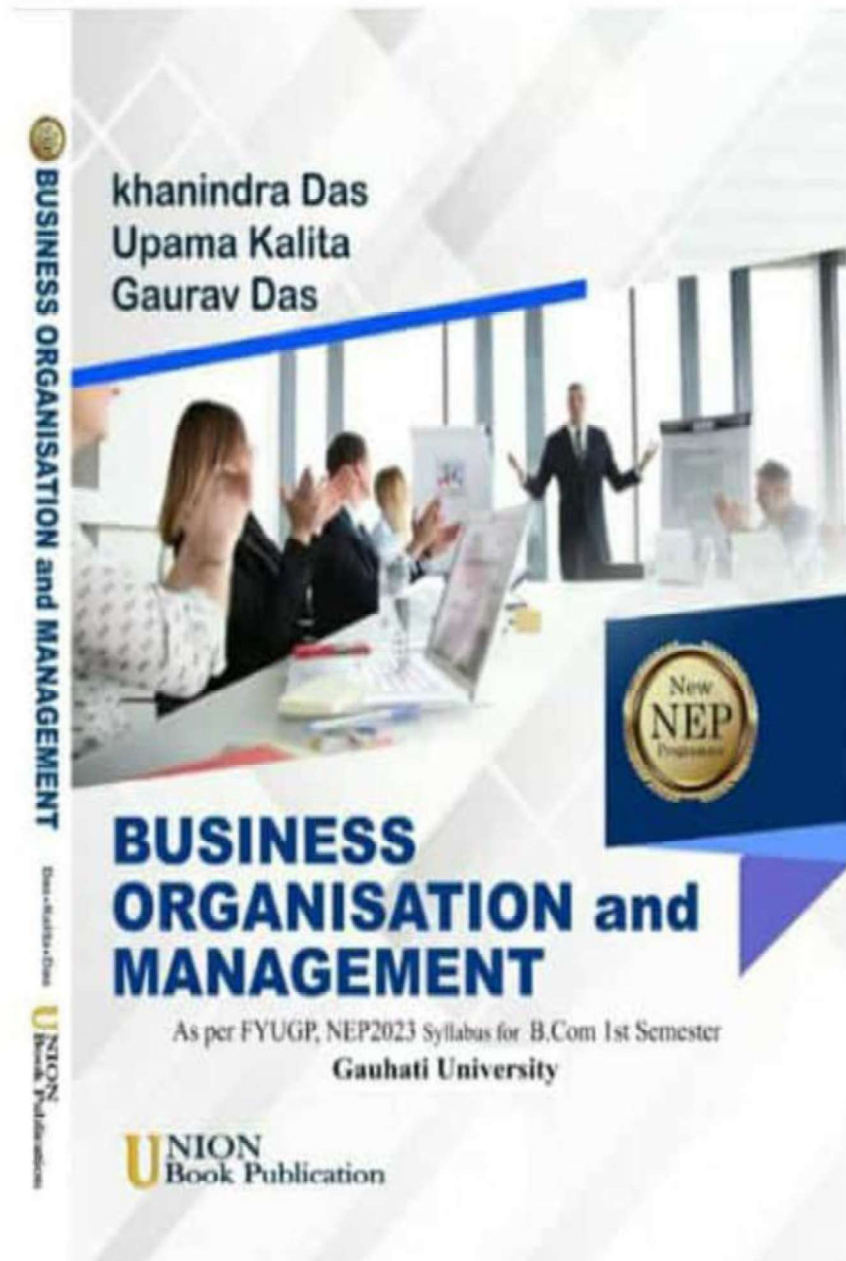
Abstract

Tourism sustainability has emerged as a crucial concern in the contemporary global context, with increasing recognition of its importance in the travel and tourism industry. This article aims to synthesize existing research, practices, and initiatives related to sustainable tourism. The primary objectives are to summarize the literature on sustainable tourism practices, identify challenges to achieving sustainability, evaluate the efficacy of current policies and initiatives, and explore emerging trends and future directions. Sustainable tourism seeks to satisfy the needs of present travelers and host communities while preserving resources for future generations. It emphasizes economic, social, and environmental considerations, striving for a balance among these factors. Key sustainable tourism principles include responsible resource use, preservation of cultural heritage, socioeconomic benefits for local communities, stakeholder involvement, impact monitoring, providing enriching experiences, promoting awareness, and establishing supportive policies. Successful case studies illustrate effective sustainable tourism practices. This review paper provides researchers, policymakers, industry practitioners, and stakeholders with a comprehensive understanding of the current state of sustainability in tourism. By spotlighting key practices, challenges, and potential development avenues, it contributes to shaping a sustainable and responsible future for the tourism industry.

Key Words: Sustainability, Tourism, Environment, Local Communities, Potential Development.

Name of the author/teacher- Upama Kalita

Cover page-



Content Page

SSYLLABUS

BUSINESS ORGANIZATION AND MANAGEMENT

Marks : 100

Credit : 4

Lectures : 100

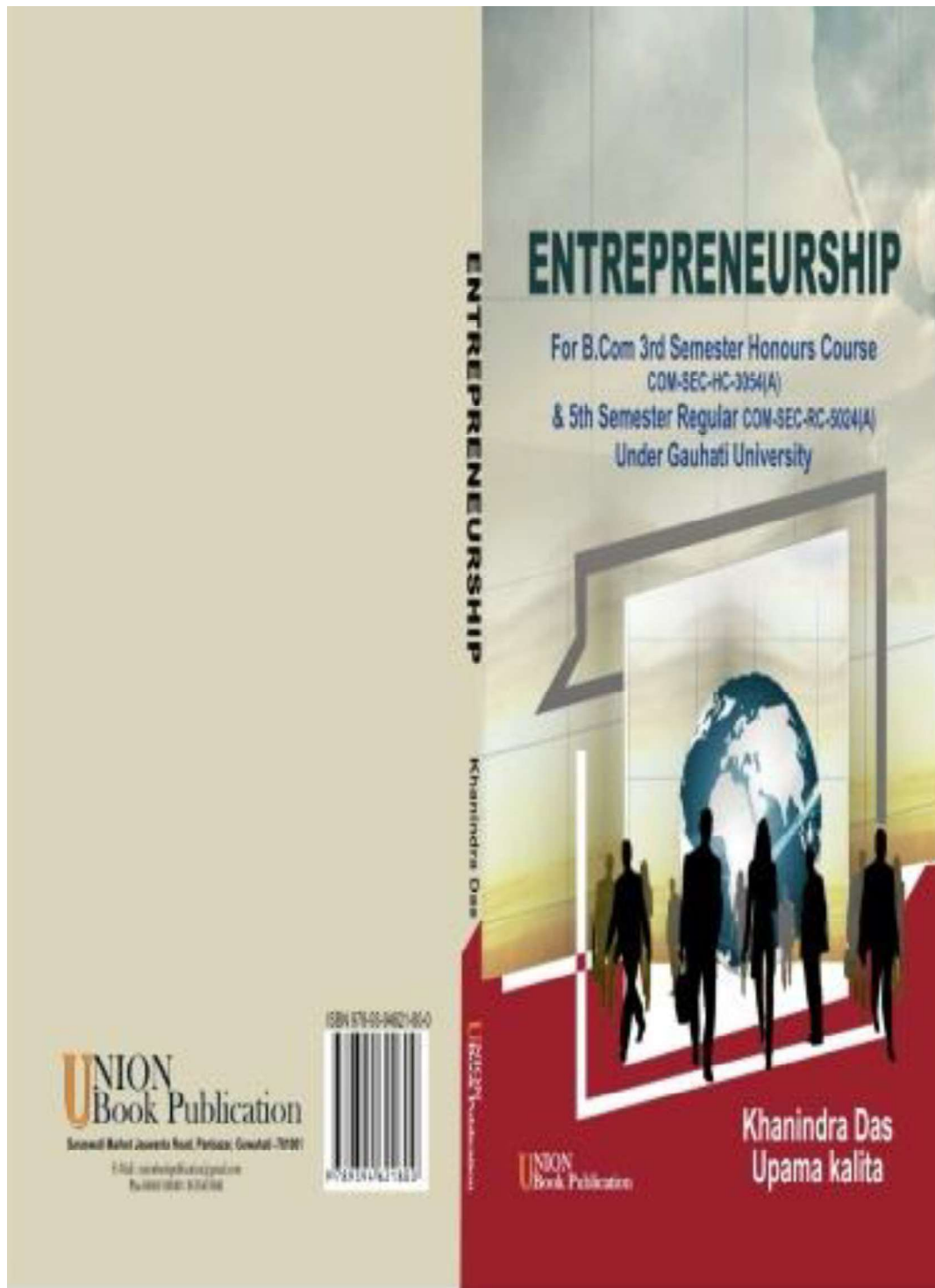
Objective : The course aims to provide basic knowledge to the students about the organization and management of a business enterprise.

CONTENTS

- Unit 1 : Introduction: Nature and Purpose of Business, Factors to be considered for starting a business, Forms of Business Organization; Business formats- Brick & Mortar, Brick & Click; E-commerce; Franchising; Outsourcing Nature and Functions of Management (An overview); Managerial Competencies-concept.
16 Classes (20 Marks)
- Unit 2 : Business Environment: Meaning and layers of Business Environment- (micro/ immediate, meso/intermediate, macro and international); Business ethics and social responsibility.
8 Classes (12 Marks)
- Unit 3 : Planning and Organizing: Strategic Planning (concepts), Decision-making- process and techniques; Organizing: -Formal and Informal Organizations, Centralization and Decentralization, Delegation, Factors affecting organizational design Organizational structures & Organograms – Divisional, Product, Matrix, Project and Virtual Organization.
12 Classes (20 Marks)
- Unit 4 : Directing and Controlling: Motivation- meaning, importance and factors affecting motivation, Leadership- meaning, importance, trait and leadership styles, Communication – New trends and directions, (Role of IT and social media); Controlling–Principles of controlling; Measures of controlling, Relationship, between planning and controlling.
12 Classes (24 Marks)
- Unit 5 : Contemporary Issues in Management: Business Process Reengineering (BPR), Learning, Organization, Six Sigma, Supply Chain Management, Work-life Balance; Freelancing; Flexi-time and work from home; Co-sharing/co-working.
12 Classes (24 Marks)

Name of the author/teacher- Upama Kalita

Cover page-



SSYLLABUS

BUSINESS ORGANIZATION AND MANAGEMENT

Marks : 100

Credit : 4

Lectures : 100

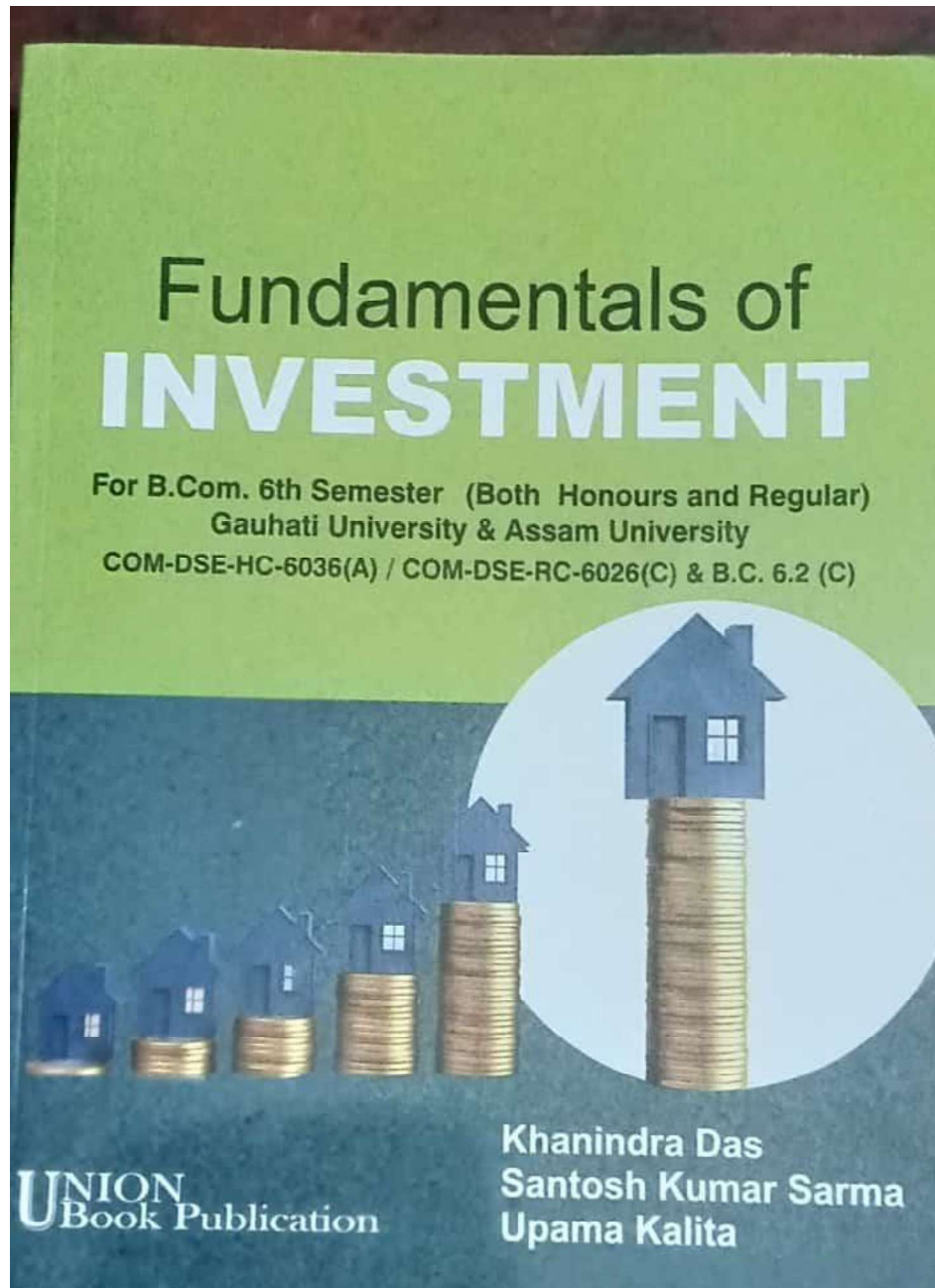
Objective : The course aims to provide basic knowledge to the students about the organization and management of a business enterprise.

CONTENTS

- Unit 1 :** Introduction: Nature and Purpose of Business, Factors to be considered for starting a business, Forms of Business Organization; Business formats- Brick & Mortar; Brick & Click; E-commerce; Franchising; Outsourcing Nature and Functions of Management (An overview); Managerial Competencies-concept.
16 Classes (20 Marks)
- Unit 2 :** Business Environment: Meaning and layers of Business Environment- (micro/ immediate, meso/intermediate, macro and international); Business ethics and social responsibility.
8 Classes (12 Marks)
- Unit 3 :** Planning and Organizing: Strategic Planning (concepts), Decision-making- process and techniques; Organizing: -Formal and Informal Organizations, Centralization and Decentralization, Delegation, Factors affecting organizational design Organizational structures & Organograms – Divisional, Product, Matrix, Project and Virtual Organization.
12 Classes (20 Marks)
- Unit 4 :** Directing and Controlling: Motivation- meaning, importance and factors affecting motivation, Leadership- meaning, importance, trait and leadership styles, Communication – New trends and directions, (Role of IT and social media); Controlling–Principles of controlling; Measures of controlling, Relationship, between planning and controlling.
12 Classes (24 Marks)
- Unit 5 :** Contemporary Issues in Management: Business Process Reengineering (BPR), Learning, Organization, Six Sigma, Supply Chain Management, Work-life Balance; Freelancing; Flexi-time and work from home; Co-sharing/co-working.
12 Classes (24 Marks)

Name of the author/teacher- Upama Kalita

Cover page-



SYLLABUS

FUNDAMENTALS OF INVESTMENT
COM-DSE-HC-6036(A)/ COM-DSE-RC-6026 (C) & B.C. 6.2 (C)

Marks: 100

Credit: 6

Lectures: 65

Objective: To familiarize the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection. Contents

Unit 1: The Investment Environment

(10 Lectures)

The investment decision process, Types of Investments – Commodities, Real Estate and Financial Assets, the Indian securities market, the market participants and trading of securities, security market indices, sources of financial information, Concept of return and risk, Impact of Taxes and Inflation on return.

Unit 2: Fixed Income Securities

(15 Lectures)

Bond features, types of bonds, estimating bond yields, Bond Valuation types of bond risks, default risk and credit rating.

Unit 3: Approaches to Equity Analysis

(15 Lectures)

Introductions to Fundamental Analysis, Technical Analysis and Efficient Market Hypothesis, dividend capitalization models, and price-earnings multiple approach to equity valuation

Unit 4: Portfolio Analysis and Financial Derivatives

(15 Lectures)

Portfolio and Diversification, Portfolio Risk and Return; Mutual Funds; Introduction to Financial Derivatives; Financial Derivatives Markets in India

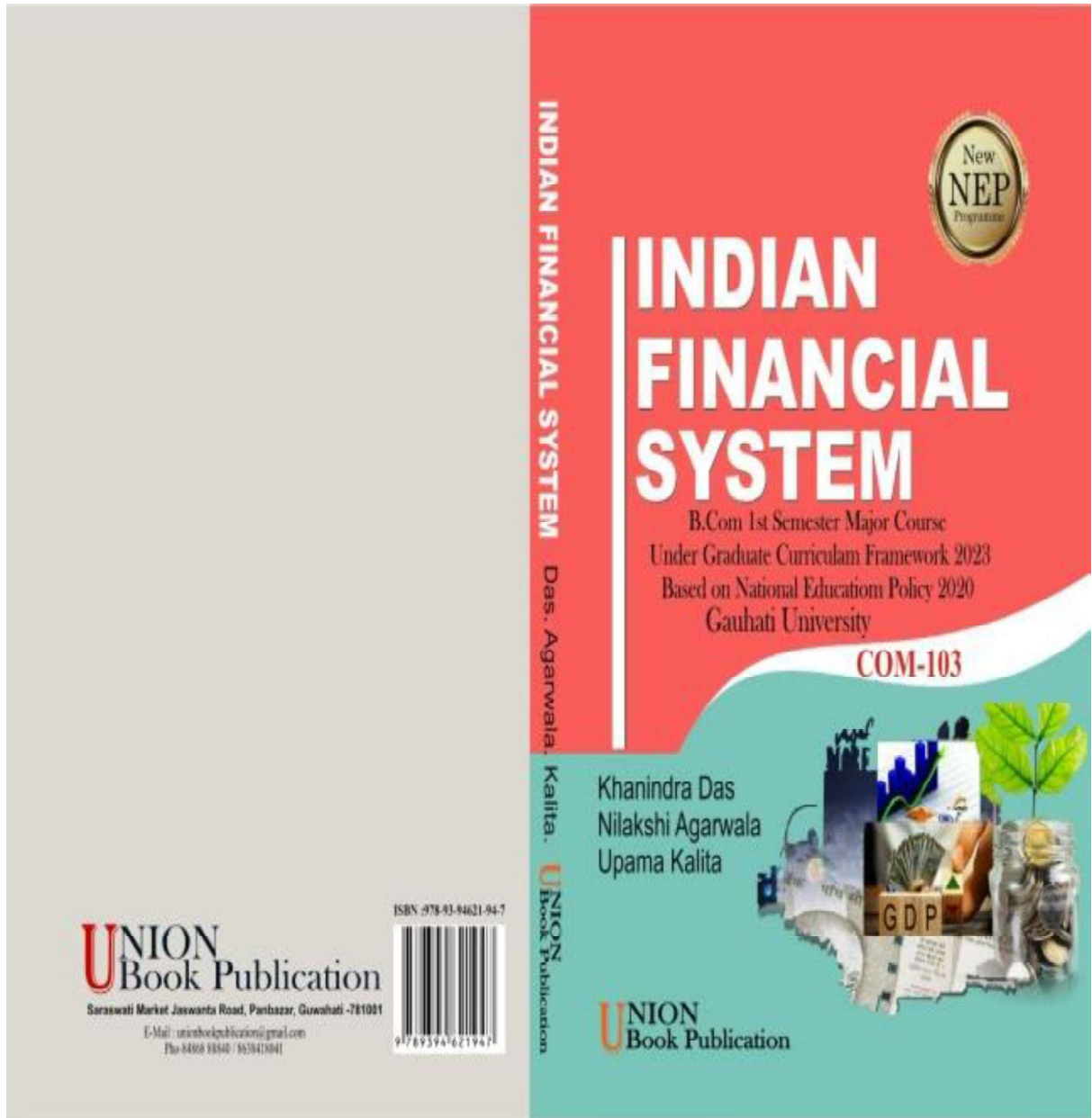
Unit 5: Investor Protection

(10 Lectures)

Role of SEBI and stock exchanges in investor protection; Investor grievances and their redressal system, insider trading, investors' awareness and activism

Name of the author/teacher- Upama Kalita

Cover page-



SSYLLABUS
COM-103
INDIAN FINANCIAL SYSTEM

Marks : 100

Credit : 6

Lectures : 65

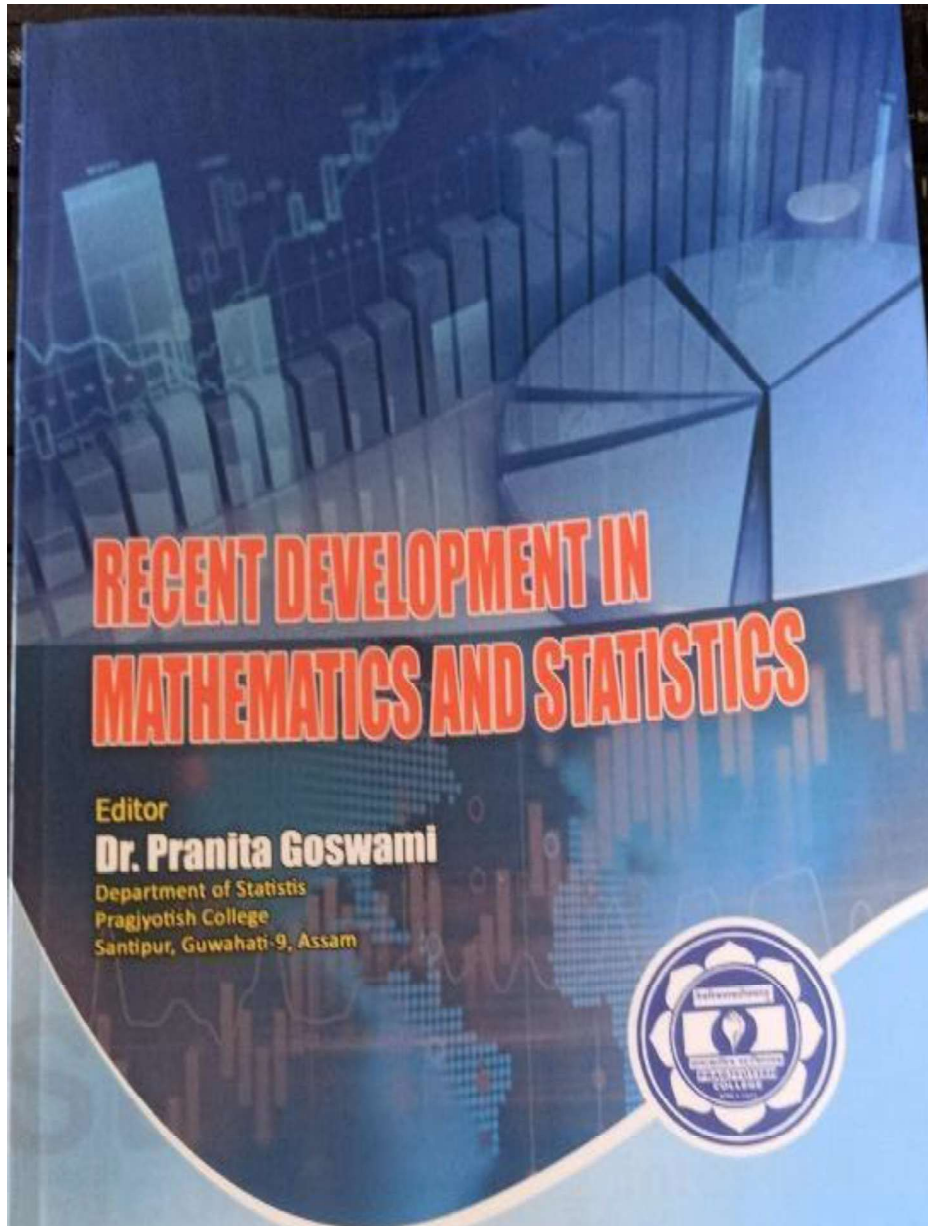
Objective : To provide students the basis knowledge of Indian Financial System and its components, institutions and their functions.

CONTENTS

- UNIT 1 : Introduction** (10 Lectures)
Financial System– Meaning, Components of Financial System, Functions of Financial System, Financial System and Economic Development, Overview of Indian Financial system.
- UNIT 2 : Financial Markets** (15 Lectures)
Financial Market– Classification of Financial Markets, Money market- its constitutions, functions and significance, Capital market- Primary and secondary market, Function of capital market and its significance.
- UNIT 3 : Financial Institutions** (15 Lectures)
Banking Financial Institutions– Types of Banks, Functions of Banks, Structure of Indian Banking System, Non- Banking Financial Institutions, Types and structure, Mutual funds, insurance companies and pension funds.
- UNIT 4 : Financial Services** (10 Lectures)
Meaning, features and importance, Types of Financial Services– Factoring, Leasing, venture capital, consumer Finance and Housing Finance.
- UNIT 5 : Regularoty Institutions** (15 Lectures)
Reserve Bank of India– organisation, objectives, Role and functions, securities and Exchange Board of India- organisation and objectives, Insurance regulatory and development authority of India, Pension fund Regulatory and development authority.

Name of the author/teacher- Dimpy Barman

Cover page-



Content page-

Recent Development in Mathematics and Statistics: This book are Edited by
Dr. Pranita Goswami, Associate Professor & HOD, Department of Statistics, Pragyoitish
College and Nandita Borah, Florina Thakuria, Guest Faculty, Department of Statistic,
Pragyoitish College, Santipur, Guwahati-9, Assam and Published by **JD Printers &**
Publication, Kamakhya, Guwahat-10, Assam ₹ 360.00/-

Themes For The Book Chapter:

Applied Statistics
Statistics in Social Sciences
Statistics in Environmental Sciences
Fuzzy Statistics
Fuzzy Mathematics
Statistics in Humanities

First Edition : 31 August, 2023
ISBN : 978-81-964332-4-6
Copyright : All Right Reserved
Chairperson : Dr. Manoj Kumar Mahanta, Principal
Editor : Dr. Pranita Goswami
Assistant Editors : Nandita Borah
Florina Thakuria
Cover Design & Concept : Statistic Department
Price : Rs. 360.00/- only
Printed at : **Meetali Offset Printers**
Kamakhya, Guwahati-10, Assam
Email: meetalioffsetprinters@gmail.com

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means like electronic, mechanical, photocopying, recording or otherwise without prior written permission of the publisher and editors.

Disclaimer: The authors are solely responsible for the contents of the papers compiled in this volume. The editors or publisher do not take any responsibility for the content and data in any way. Errors if any are purely unintentional and readers are requested to communicate such errors to the editors to avoid the same in future.

First page of the publication-

6/4/2024

6 Role and use of Statistics in Commerce

Dimply Barman,
Assistant Professor, Department of Mathematics, Pragiyotish College

Statistics is the science concerned with developing and studying methods for collecting, analyzing, interpreting and presenting empirical data. The word 'Statistics' has been derived from the Latin word 'Status' or the Italian word 'Statista' or the German word 'Statistik'. In old days, the word 'Statistics' was used to indicate the quantities like volume of arms and ammunition, number of soldiers in a state, volume of taxes, etc, connected with administrative and political activities of a state. During that period, statistics was referred as 'The Science of Kings'. In modern age, the scope of statistics is wide enough. Nowadays, the use of statistics is extended to various fields such as agriculture, economics, sociology, business, management, etc.

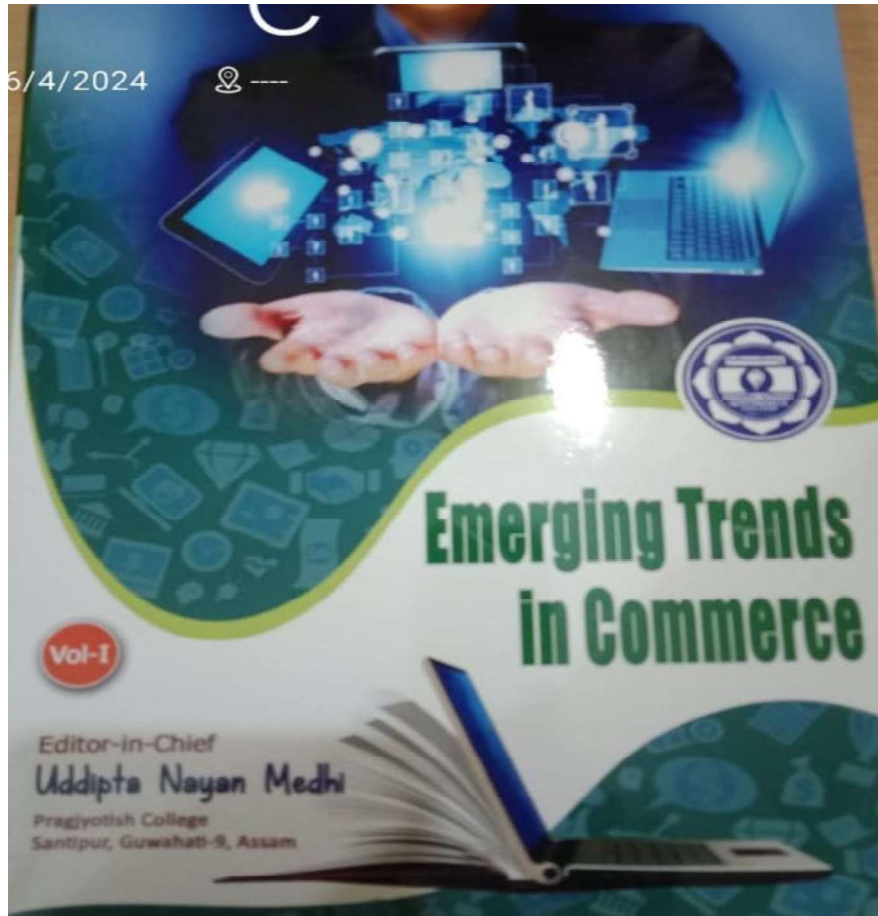
The field of statistics has numerous applications in business. Because of technological advancements, large amounts of data are generated by business these days. These data are now being used to make decisions, which helps us to improve the running of a department, a company or the entire economy. Statistics helps businessman to plan production according to the taste of customers. Production planning is a crucial aspect of any business operation. It helps companies build realistic production schedules, ensure production process runs smoothly and efficiently and adjust operations when problem occur. When production planning is done well, it helps in business to predict customer demand accurately and deliver the goods or services at the right time.

Here are some specific examples of how we can use statistics in business.

- **Appraisal of value:**
An appraisal of value helps to give an estimate of what a vehicle, house or business would sell for. This estimate is based on current market conditions and the best available information.
- **Consumer Surveys:**
It helps to discover consumer sentiment about a product or company. It can also help to identify demand for a certain product or service in a given area. For example, in a restaurant, customer feedback from the customer helps the restaurant management to gain insights into aspects that would help improve the customer experience.

Name of the author/teacher- Dimpy Barman

Cover page



Content page-

EMERGING TRENDS IN COMMERCE: This volume is an anthology of research papers contributed by various researchers and Edited by **Uddipta Nayan Medhi**, Assistant Professor & HOD, Department of Accountancy, Pragiyotish College and **Manojit Kalita**, Assistant Professor, Department of Accountancy, **Bipasha Das**, Assistant Professor, Department of Management, **Upama Kalita**, Assistant Professor, Department of Finance, Pragiyotish College, Santipur, Guwahati-9, Assam and Published by **Meetali Printers & Publication**, Kamakhya, Guwahat-10, Assam. ₹ 500.00/-

6/24/2024

First Edition : Vol-I., August, 2023

Chairperson : Dr. Manoj Kumar Mahanta, Principal

Advisors : Dr. Namita Das, Coordinator, IQAC
Dr. Manjit Kumar Mazumdar, Advisor, IQAC
Mukunda Kalita, Co-ordinator, Commerce Stream

Editor-in-Chief : Uddipta Nayan Medhi

Assistant Editors : Manojit Kalita
Bipasha Das
Upama Kalita

Technical & IT Support : Jiten Sonowal
Gaurav Das

DTP & Layout : Dipak Das

Cover Concept : Uddipta Nayan Medhi

Cover Design : Pankaj Paran

Price : Rs. 500.00/- only

ISBN : 978-81-964332-2-2

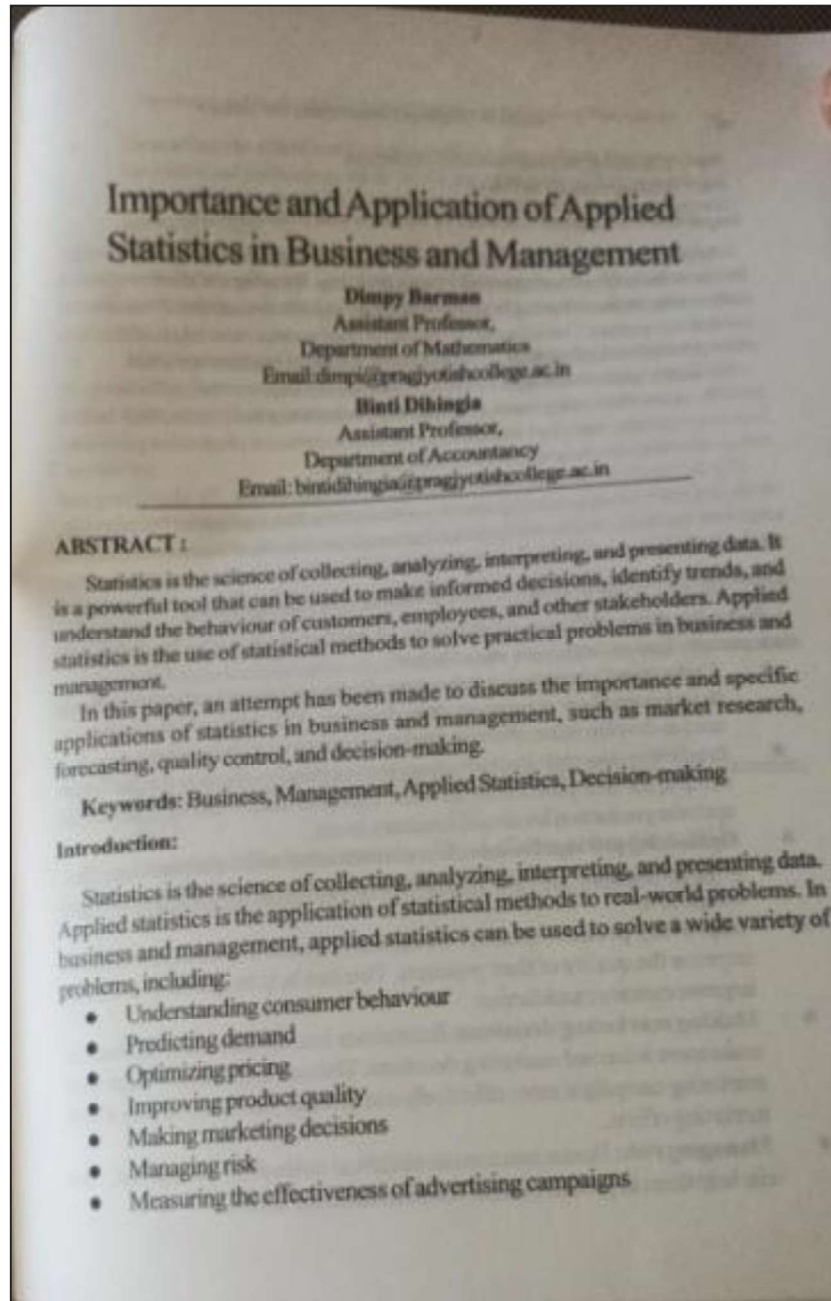
Copyright : Editorial Board

Printed at : **Meetali Offset Printers**
Kamakhya, Guwahati-10, Assam
Email: meetalioffsetprinters@gmail.com

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means like electronic, mechanical, photocopying, recording or otherwise without prior written permission of the publisher and editors.

Disclaimer: The authors are solely responsible for the contents of the papers compiled in this volume. The editors or publisher do not take any responsibility for the content and data in any way. Errors if any are purely unintentional and readers are requested to communicate suggestions to the editors to avoid the same in future.

First page of the publication-



Name of the author/teacher- Bipasha Das

Cover page-

Emerging Trends in Commerce

Editor-in-Chief

Uddipta Nayan Medhi

HoD, Department of Accountancy
Pragjyotish College
Santipur, Guwahati, Assam

Assistant Editors

Manojit Kalita

Assistant Professor, Department of Accountancy

Bipasha Das

Assistant Professor, Department of Management

Upama Kalita

Assistant Professor, Department of Finance
Pragjyotish College
Santipur, Guwahati-9, Assam



J.D. Printers & Publication
Kamakhya, Guwahati-10, Assam

CONTENT.....

1. Applying Neural Networks for Loan Approval in the Commercial Banking System : A Machine Learning Approach 19
 ✎ **Dr. Masih Saikia**

2. Workforce Diversity Management: A Review 28
 ✎ **Aparajita Neog**

3. Green Human Resource Management Practices in Indian organizations 36
 ✎ **Bipasha Das**

4. The Impact of Management Accounting on Financial Performance 45
 ✎ **Diganta Talukdar & Imran Yasin Ali**

5. The Role of AI in Accounting and Finance: A study on Current Trends and future implication 50
 ✎ **Uddipta Nayan Medhi**

6. Role and use of Statistics in Commerce 60
 ✎ **Dimpi Barman**

7. Analysis of Rural Weekly Market: A case study of Rangia biweekly market, Kamrup District of Assam 63
 ✎ **Dr. Tirthankar Sarma & Semima Elahi**

First page of the publication-

Green Human Resource Management Practices in Indian organizations

3 Bipasha Das,
Assistant Professor, Department of Management,
Pragyotish College, Guwahati

ABSTRACT

Green HRM practices are evolving rapidly because of changing global requirements with respect to global warming and climatic changes. Environmentalists and scientists worldwide are warning the Governments and Public about the severe consequences and worsening situations global warming is bringing. Many countries already started repairing their systems and are moving forwards in creating and maintaining a better environment. After observing the global changing scenario's India is also slowly taking steps towards these changes for betterment. This paper concentrates on studying the present Green Human Resource Management practices adopted by the organizations, their awareness and implementations, and growth rate in Indian scenario. This study explores the success rate of implementing Green Human Resource Management practices in Indian Organizations. It also highlights the need for Green Human Resource Management, and factors required for implementing Green Human Resource Management. It also covers the problems faced by the Indian organizations in implementing Green Human Resource Management.

Keywords: Green Human Resource management, GHRM Practices, SHRM, Environment and HRM

1. INTRODUCTION

Twenty first century is witnessing many changes in the environmental issues. Recently the concept of environmentalism is having highest priority to combat climatic changes. Environment is facing many consequences from pollution, bio waste, e-waste, techno waste etc. which are damaging the environment badly resulting in destruction of natural resources, negative effect on human life and health, and society as a whole. HRM plays an important role in dealing with the most valuable assets in the organization. HR managers these days are thinking that the concept of HRM is completely focusing on the sustainability factor. Green

Name of the author/teacher- Binti Dihingia

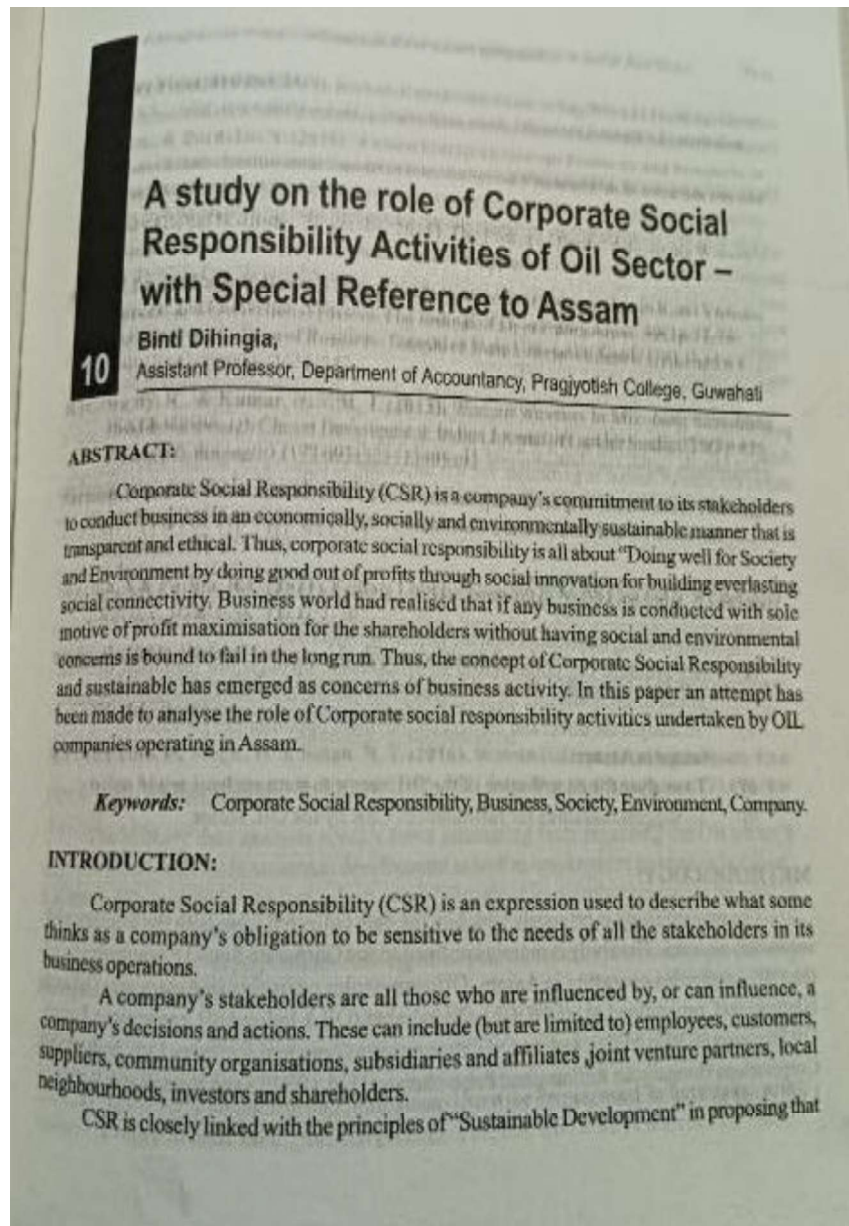
Cover page-



Content page-

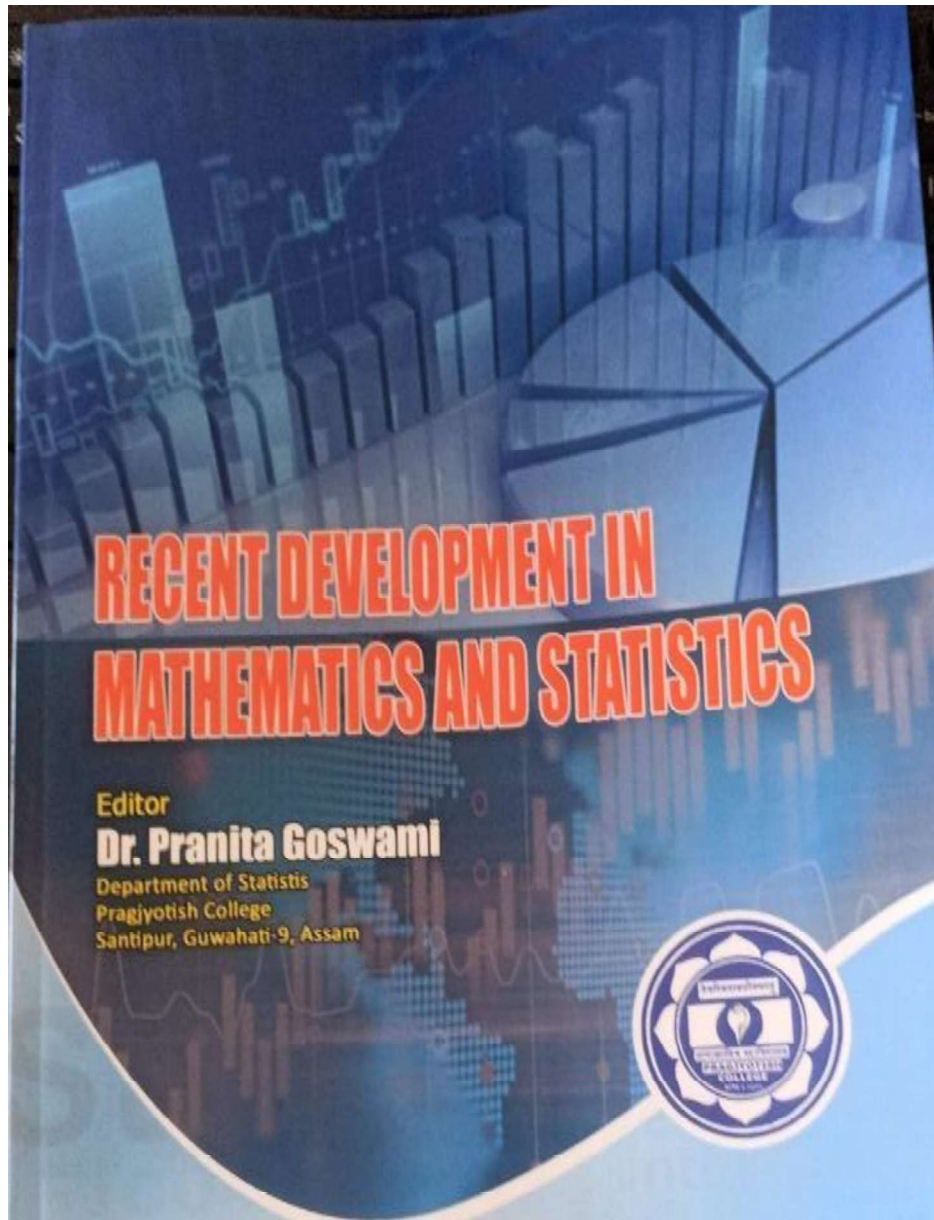
8. Emerging Issues and Challenges of Women Entrepreneurship in North East India	8
⊗ Dr. Ira Das	
9. "Antecedents of Vlogger Influencers on Consumer Behaviour: A Study of YouTubers in India."	9
⊗ Gaurav Das	
10. A study on the role of Corporate Social Responsibility Activities of Oil Sector – with Special Reference to Assam	9
⊗ Binti Dihingia	
11. Role of Ethics and Social Responsibility in Business	9
⊗ Dr. Gour Gopal Banik & Neeta Longjam	
12. Modern banking system in India Emerging trends and prospects	100
⊗ Mrs Himadree Das	
13. The Development of a competitive B2B E - commerce market in India	102
⊗ Jiten Sonowal	
14. Importance of the use of multi-language in global E-commerce	111
⊗ Kabita Medhi	
15. A Study on Green Accounting: Its Concept and Importance	111
⊗ Kallol Das	

First page of the publication-



Name of the author/teacher- Binti Dihingia

Cover page-



Content page-

Recent Development in Mathematics and Statistics: This book are Edited by
Dr. Manoj Kumar Mahanta, Associate Professor & HOD, Department of Statistics, Praggyotish
College and Nandita Borah, Florina Thakuria, Guest Faculty, Department of Statistic,
Praggyotish College, Santipur, Guwahati-9, Assam and Published by **JD Printers &**
Publication, Kamakhya, Guwahati-10, Assam ₹ 360.00/-

Themes For The Book Chapter:

Applied Statistics
Statistics in Social Sciences
Statistics in Environmental Sciences
Fuzzy Statistics
Fuzzy Mathematics
Statistics in Humanities

First Edition : 31 August, 2023
ISBN : 978-81-964332-4-6
Copyright : All Right Reserved
Chairperson : Dr. Manoj Kumar Mahanta, Principal
Editor : Dr. Pranita Goswami
Assistant Editors : Nandita Borah
Florina Thakuria
**Cover Design &
Concept** : Statistic Department
Price : Rs. 360.00/- only
Printed at : **Meetali Offset Printers**
Kamakhya, Guwahati-10, Assam
Email: meetalioffsetprinters@gmail.com

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means like electronic, mechanical, photocopying, recording or otherwise without prior written permission of the publisher and editors.

Disclaimer: The authors are solely responsible for the contents of the papers compiled in this volume. The editors or publisher do not take any responsibility for the content and data in any way. Errors if any are purely unintentional and readers are requested to communicate such errors to the editors to avoid the same in future.

First page of the publication-

Importance and Application of Applied Statistics in Business and Management

Deepy Barman
Assistant Professor,
Department of Mathematics
Email: deepi@praggyotidcollege.ac.in

Binu Dhilligla
Assistant Professor,
Department of Accountancy
Email: binudhilligla@praggyotidcollege.ac.in

ABSTRACT :

Statistics is the science of collecting, analyzing, interpreting, and presenting data. It is a powerful tool that can be used to make informed decisions, identify trends, and understand the behaviour of customers, employees, and other stakeholders. Applied statistics is the use of statistical methods to solve practical problems in business and management.

In this paper, an attempt has been made to discuss the importance and specific applications of statistics in business and management, such as market research, forecasting, quality control, and decision-making.

Keywords: Business, Management, Applied Statistics, Decision-making

Introduction:

Statistics is the science of collecting, analyzing, interpreting, and presenting data. Applied statistics is the application of statistical methods to real-world problems. In business and management, applied statistics can be used to solve a wide variety of problems, including:

- Understanding consumer behaviour
- Predicting demand
- Optimizing pricing
- Improving product quality
- Making marketing decisions
- Managing risk
- Measuring the effectiveness of advertising campaigns

Name of the author/teacher- Manojit Kalita

Cover page-



Content page-

16. Impact of Accounting Information on the decision making process of an organization 118
✎ **Mrs. Manisha Dutta**

17. A study on the Role of Entrepreneurship in the Economic Development of a Country with special reference to North-East India 121
✎ **Manojit Kalita**

18. Rural Entrepreneurship: Challenges and Opportunities of Women Entrepreneurs in Assam 132
✎ **Nalini Rahang**

19. Use and Implication of AI for Future Use in Commerce 139
✎ **Nayan Mahanta**

20. Role of Ethics and Social Responsibility In Business 144
✎ **Nilakhi Boro**

21. Brand Promotion in the Age of Internet: A Study on Digital Promotional Strategy on Select Brands 148
✎ **Banjeet Bharali**

22. Green Human resource management: Significance and Challenges 155
✎ **Raju Roy**

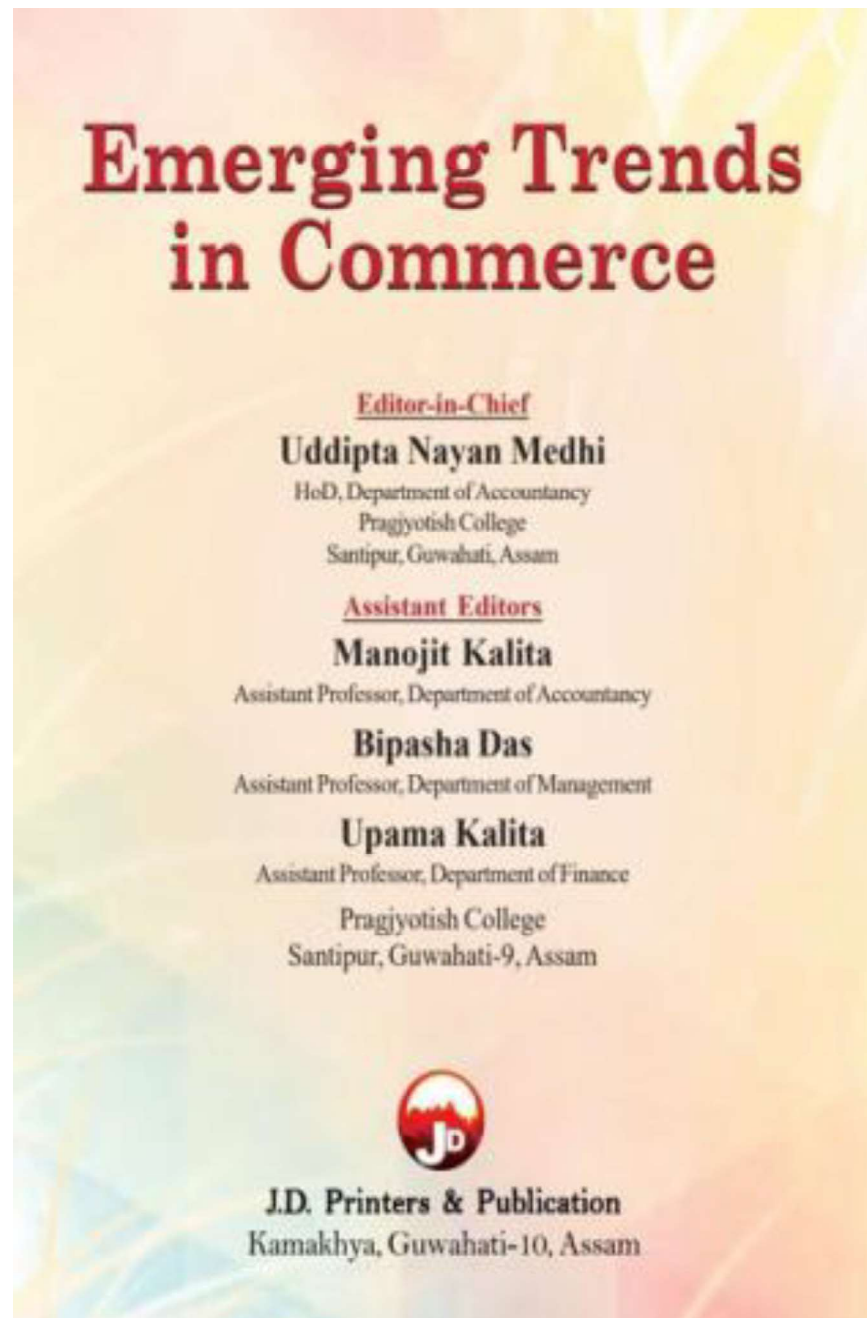
23. Role of Management Accounting in Decision Making 163
✎ **Ruhul Amin**

First page of the publication-



Name of the author/teacher- Kabita Medhi

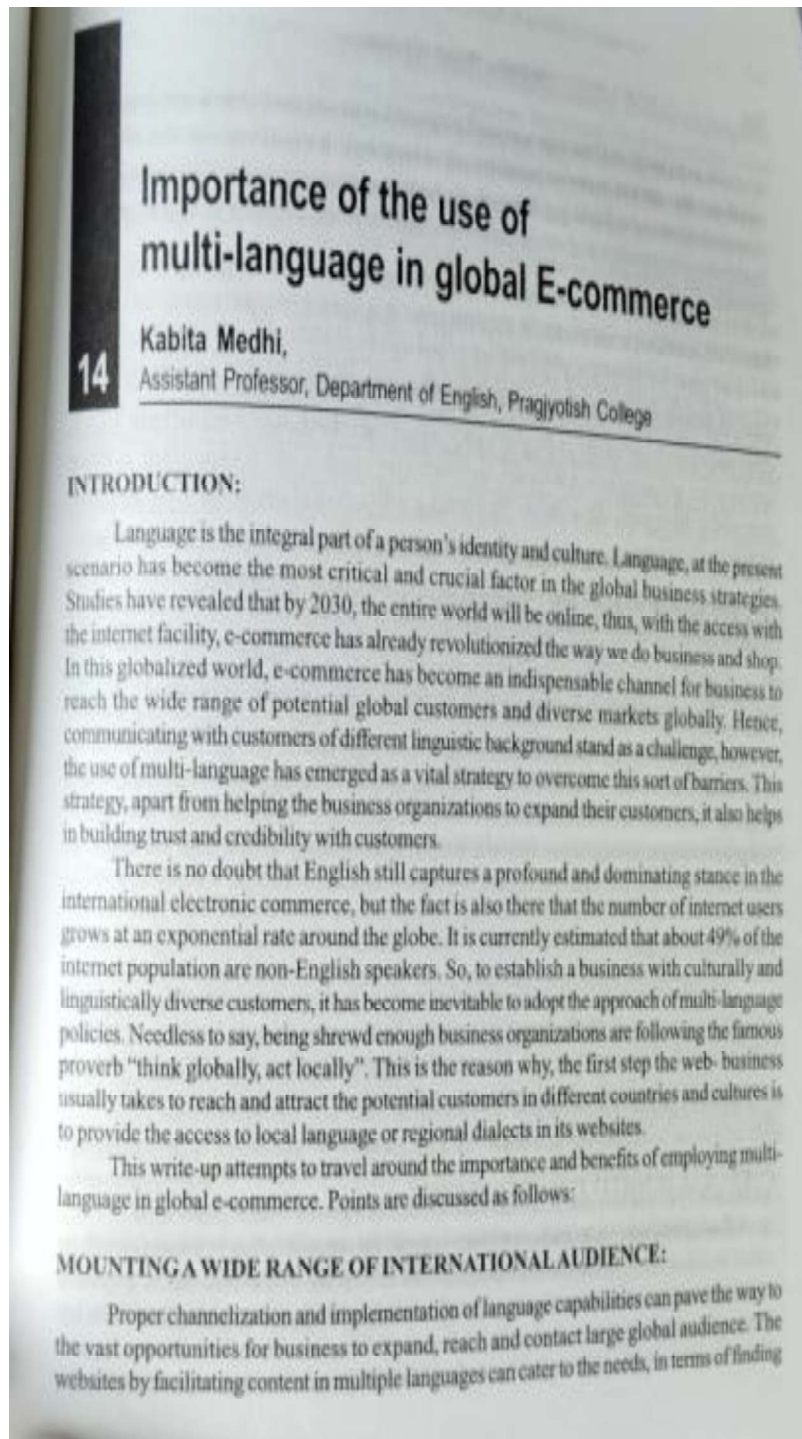
Cover page-



Content page-

8. Emerging Issues and Challenges of Women Entrepreneurship in North East India	74
✉ Dr. Ira Das	
9. "Antecedents of Vlogger Influencers on Consumer Behaviour: A Study of YouTubers in India."	82
✉ Gaurav Das	
10. A study on the role of Corporate Social Responsibility Activities of Oil Sector – with Special Reference to Assam	87
✉ Binti Dihingia	
11. Role of Ethics and Social Responsibility in Business	92
✉ Dr. Gour Gopal Banik & Neeta Longjam	
12. Modern banking system in India Emerging trends and prospects	100
✉ Mrs Himadree Das	
13. The Development of a competitive B2B E - commerce market in India	102
✉ Jiten Sonowal	
14. Importance of the use of multi-language in global E-commerce	111
✉ Kabita Medhi	
5. A Study on Green Accounting: Its Concept and Importance	115
✉ Kallol Das	

First page of the publication-



Name of the author/teacher- Shamolim Gaurata

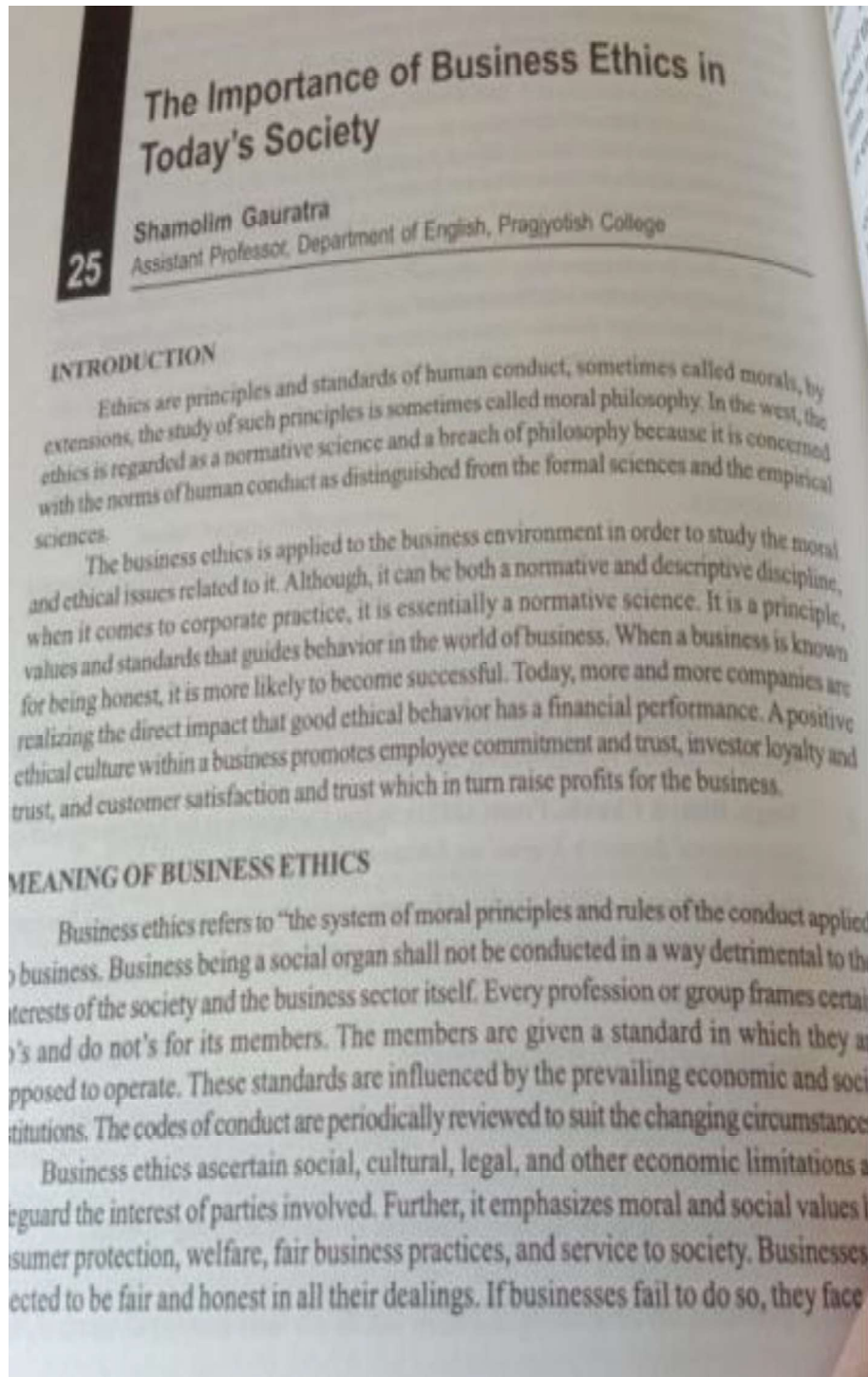
Cover page-



Content page-

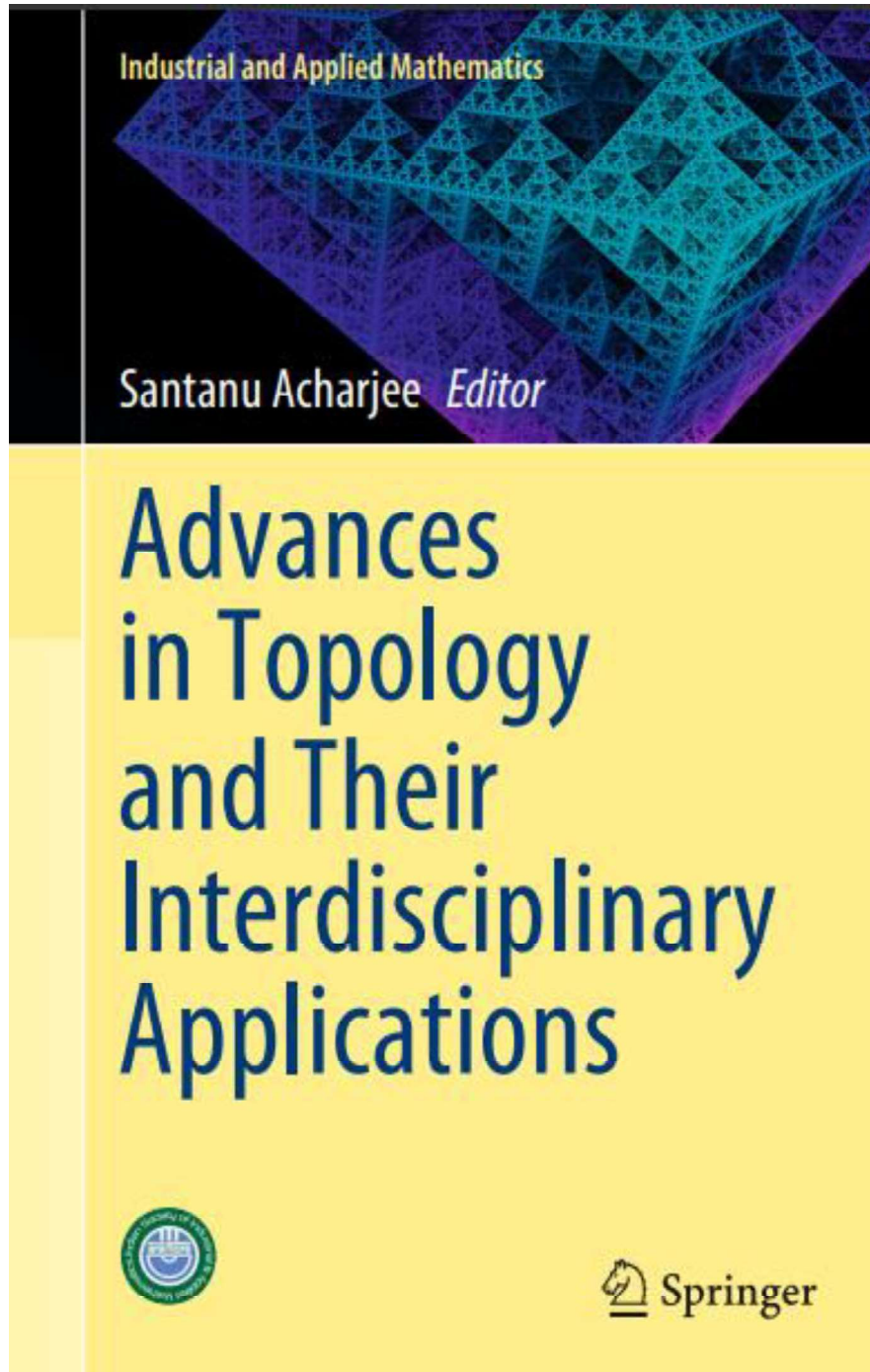
24. "A Study on Entrepreneurship in India and its emerging issues towards economic growth and Development." 171
✎ **Satarupa Bhattacharjee**
25. The Importance of Business Ethics in Today's Society 178
✎ **Shamolim Gauratra**
26. A review on application of Information Technology in Enhancing Local Entrepreneurs 183
✎ **Syeda Shamim Shabnam**
27. A Study on the Role of Accounting Information System in the Decision-making Process of an Organization 187
✎ **Dr. Tanusree Sarkar Bhadra**
28. Merger and Acquisition of Regional Rural Bank with Special Reference to Assam Gramin Viksah Bank 193
✎ **Upama Kalita**
29. বাণিজ্য ক্ষেত্ৰত ভাষাৰ শ্ৰৱণ, কথন আৰু লেখনৰ ভূমিকা 196
✎ **মিনাক্ষী দেৱী**
30. वाणिज्य-व्यापार बैंकिंग और विज्ञापन के क्षेत्र में हिन्दी 198
✎ **डाँ. मोनालिसा चक्रवर्ती**

First page of the publication-



Name of the author/teacher- Dr Saityana Kumar Bharadwaj

Cover page-



Chapter 13 On Topological Index of Naturally Occurring Zeolite Material $[4, n]$



Saitanya K. Bharadwaj and Santanu Acharjee

Abstract A topological index is a numeric quantity which characterizes the whole structure of a chemical graph. Here, we compute Randić index and its generalized forms, first Zagreb index, augmented Zagreb index, harmonic index, hyper Zagreb index, atom-bond connectivity index, geometric-arithmetic index, forgotten index of zeolite material $[4, 2]$ and zeolite material $[4, n]$, where $n \geq 3$. We also calculate the fourth version of the atom-bond connectivity index and the fifth version of the geometric-arithmetic index of zeolite material $[4, n]$, where $n \geq 5$.

Keywords Topological index · Chemical graph · Zeolite

13.1 Introduction

Zeolites are hydrated crystalline aluminosilicates with pores having the general formula $M_{x/n}[(AlO_2)_x(SiO_2)_y] \cdot mH_2O$, where M is any metal, Al is aluminium and Si is silicon. Structurally, AlO_4 and SiO_4 units are interlinked by sharing oxygen atoms giving a three-dimensional inorganic polymer. In particular, zeolites have relatively open, three-dimensional crystal structures built from the elements aluminium, oxygen and silicon with alkali or alkaline-earth metals (such as sodium, potassium and magnesium). The sharing of the tetrahedral alumina and silica resulted in orderly distributed micropores with 0.3–0.2 nm diameter and voids which are occupied by alkali cations and water molecules. Depending on the Si/Al ratio, different types of zeolites are formed and their structures vary [1, 2] (Fig. 13.1).

Zeolite can be synthesized as well as obtained naturally. Zeolite's formation may occur under various conditions such as hydrothermal alteration of basalts, metamor-

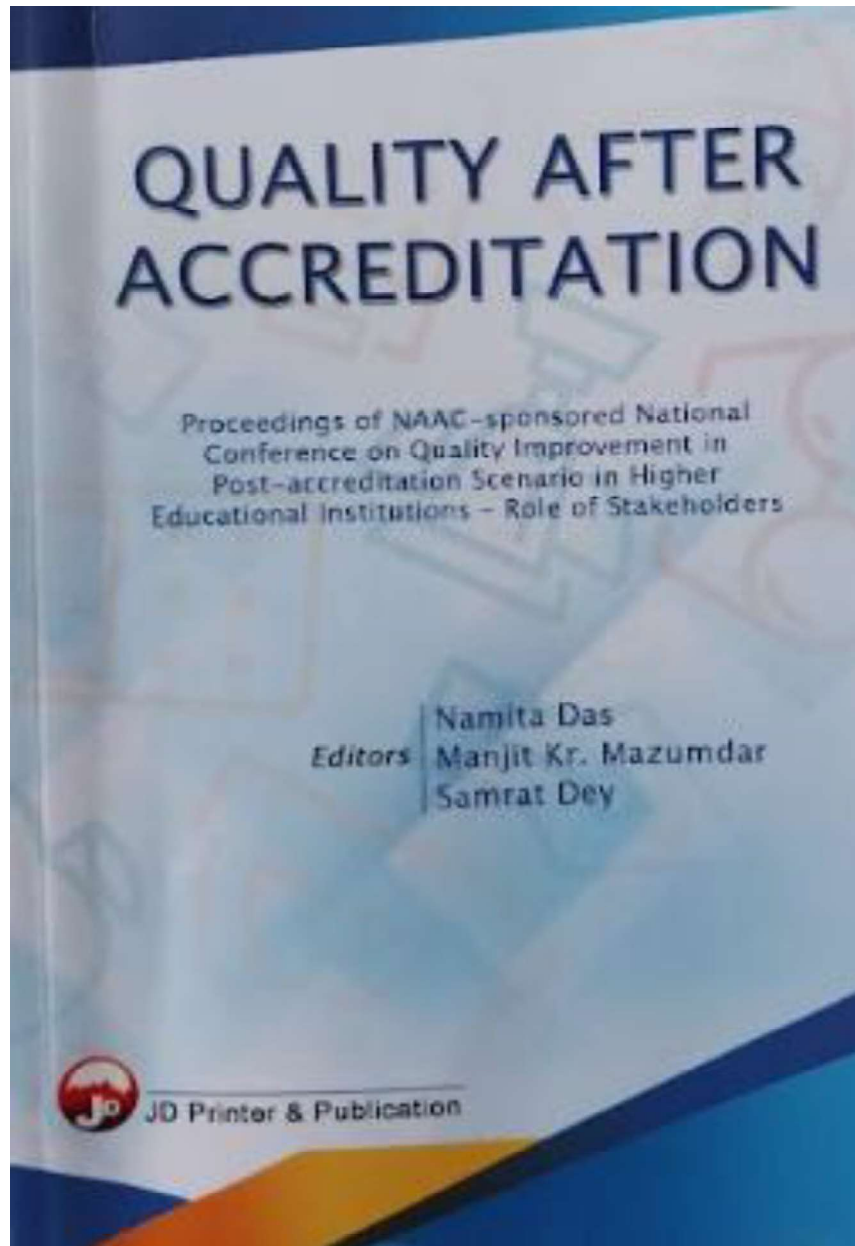
S. K. Bharadwaj
Department of Chemistry, Pragjyotish College, Guwahati 781009, Assam, India
e-mail: saitanya@pragjyotishcollege.ac.in

S. Acharjee (✉)
Department of Mathematics, Gauhati University, Guwahati 781014, Assam, India
e-mail: sacharjee326@gmail.com

© The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2023
S. Acharjee (ed.), *Advances in Topology and Their Interdisciplinary Applications*,
Industrial and Applied Mathematics,
https://doi.org/10.1007/978-981-99-0151-7_13

Name of the author/teacher- Laltlanzuol Khawbung

Cover Page-



❖	DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE? .. 4
	❧ Masum Ahmed, Bidyut Bikash Baishya, Ira Das & Namita Das
❖	RE-VISITING THE ROLE OF STAKEHOLDERS IN POST- ACCREDITATION SCENARIO IN HIGHER EDUCATIONAL INSTITUTION: A BRIEF REVIEW WITH REFERENCE TO HUMANITIES SECTION 6
	❧ Lalflanzuol Khawbung
❖	PERFORMANCE AND ACCREDITATION STATUS OF HIGHER EDUCATION INSTITUTIONS IN WEST BENGAL 7
	❧ Sajal Roy & Pritam Rajak
❖	ROLE OF STAKEHOLDERS IN QUALITY IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 8
	❧ Amit Ahuja & Richi Pahuja
❖	IMPACT OF NEP 2020 ON HIGHER EDUCATION AND OPPORTUNITIES FOR STAKEHOLDERS ... 9
	❧ Amit Ahuja & Rajani Upadhyay
❖	ROLE OF STAKEHOLDERS IN THE PROCESS OF CONTINUOUS IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 10
	❧ C. Parameswari, S. Rathnamala & S. Siva Ranjani

CHAPTER - 7

**RE-VISITING THE ROLE OF
STAKEHOLDERS IN
POST-ACCREDITATION SCENARIO
IN HIGHER EDUCATIONAL
INSTITUTION: A BRIEF REVIEW
WITH REFERENCE TO
HUMANITIES SECTION**

Laltlanzuol Khawbung

Department of English, Pragjyotish College

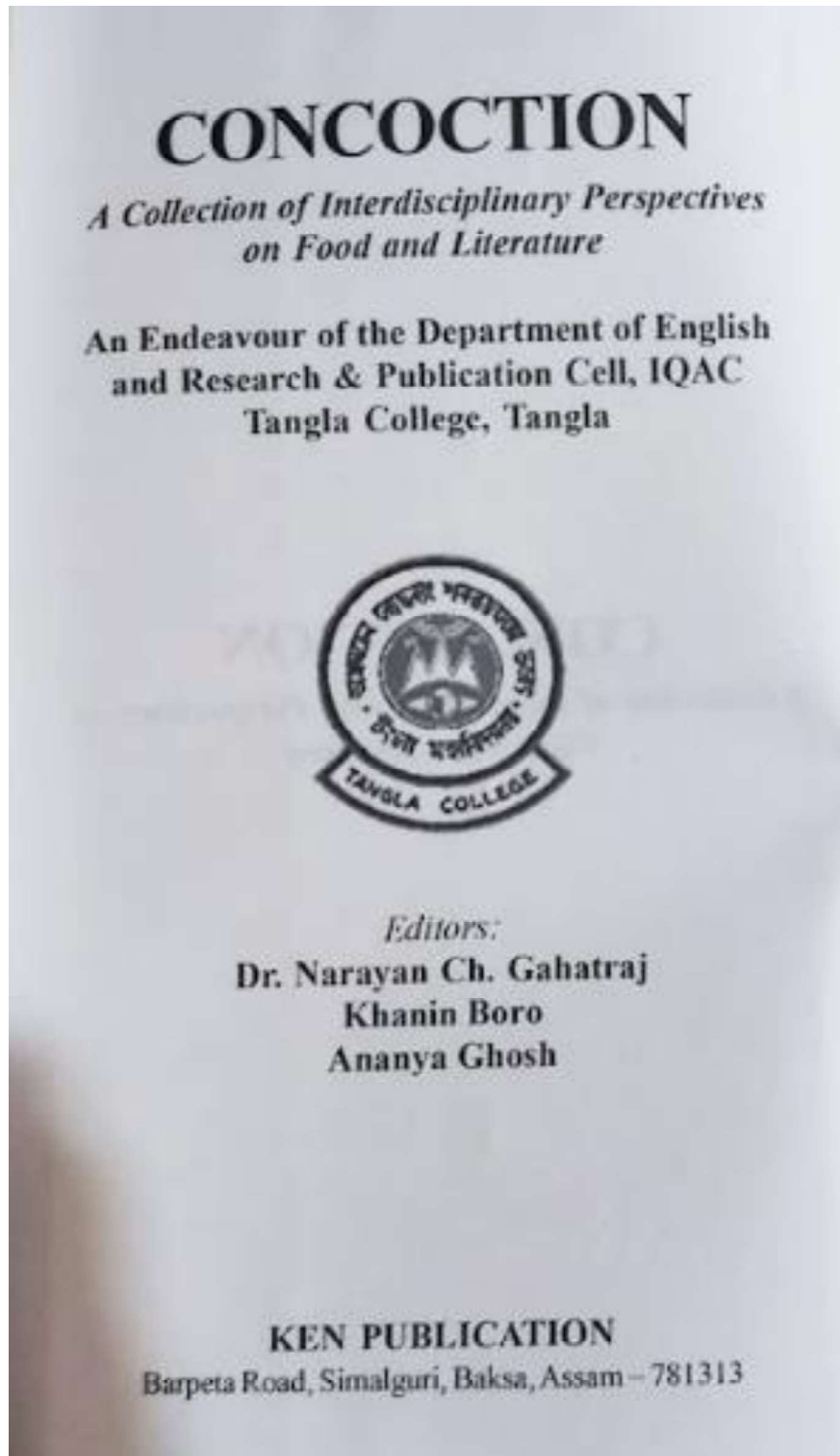
*For correspondence. (laltlanzuol@pragjyotishcollege.ac.in)

ABSTRACT

Accreditation of Higher Educational institution has become an important practice in determining the quality of education imparted among the students. Many steps have been taken to improve the system as well as the administrative unit to make the institution a student centric environment. However, greater challenges lie ahead in the post-accreditation scenario. Moreover, every streams and departments have their respective problems and challenges in imparting quality education to their students. While science stream have basically a very practical approach, humanities focuses on theoretical approach. Hence a similar approach cannot be adopted in understanding and reviewing the different streams. This paper would like to

Name of the author/teacher- Monali Ghosh

Cover page-



Content page-

CONTENTS

1. **Food as a Way of Transcultural Bonding in Select Works of Jhumpa Lahiri**
 > Shubra Ghosh / 1
2. **Food, Memory and Identity in Esther David's novel *Book of Rachel***
 > Prof. Sivasish Biswas & Mrs. Kabideepa Handique / 8
3. **Forgoing Meat and Its Gendered Implications - A Reading of Han Kang's *The Vegetarian***
 > Kaushik Hazarika / 17
4. **The Interplay of Food and Power in *The Hunger Games* Trilogy**
 > Devastuti Sharma / 26
5. **What's Love Got to Do With It? Issues Concerning Food in Nicole Holofcener's *Enough Said***
 > Reshma Gupta / 41
6. **Women and Food: A Study of Bulbul Sharma's Select Works**
 > Monali Ghosh Dastider / 48
7. **The conceptualization of identity in food narratives: An analysis of *Ratatouille***
 > Arunabh Chakravarty / 58
8. **Food and Diaspora: A Reading of Monica Ali's *Brick Lane***
 > Manjari Upadhyaya / 68

First page of the publication-

ISBN : 978-81-948218-0-9

Women and Food: A Study of Bulbul Sharma's Select Works

Monali Ghosh Dastider

Abstract

From times immemorial, women and food has been intricately related. The traditional setup of the Indian society specifically, and also more or less in other parts of the world, the basic and most important role of a woman is to prepare food for her family regardless of her marital status either voluntarily or involuntarily. Kitchen is supposed to be the only ideal place where a woman in the Indian society fits in. Other than the real world, literature is playing an important role in depicting the stories and conditions of these women who are dedicated to the kitchen willingly or unwillingly. India as a country has a rich and varied traditions and cultures, and within its culture, food holds the foremost place becoming the medium to know about a particular culture. However, the relation between women and kitchen inside a culture has many aspects in it. The theme of food takes a key place in many works of women's literature. The most evident feature related to this theme is feminine identity and domesticity. While discussing women's role, the patriarchal point of view has to be mentioned. For different women, food and kitchen plays different roles for them. In the words of Carole M Counihan, "Between men and women, food is a means of differentiation as well as a channel of connection. By claiming different roles in regard to food and distinct attributes through identification with specific foods, men and women define their masculinity and femininity, their similarity and differences" (Counihan and Kaplan, 7). This paper would look

Name of the author/teacher- Dr Namita Das

Cover Page-

QUALITY AFTER ACCREDITATION

Proceedings of NAAC Sponsored National Conference on Quality
Improvement in Post-Accreditation Scenario in Higher Educational
Institutions – Role of Stakeholders

Editors

Namita Das

Pragjyotish College
Guwahati, Assam, India

Manjit Kr. Mazumdar

Pragjyotish College
Guwahati, Assam, India

Samrat Dey

Pragjyotish College
Guwahati, Assam, India



JD Printers & Publication

Kamakhya, Guwahati-10

❖ DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE? .. 47	47
❧ Masum Ahmed, Bidyut Bikash Baishya, Ira Das & Namita Das	
❖ RE-VISITING THE ROLE OF STAKEHOLDERS IN POST-ACCREDITATION SCENARIO IN HIGHER EDUCATIONAL INSTITUTION: A BRIEF REVIEW WITH REFERENCE TO HUMANITIES SECTION	61
❧ Laltlanzuol Khawbung	
❖ PERFORMANCE AND ACCREDITATION STATUS OF HIGHER EDUCATION INSTITUTIONS IN WEST BENGAL	71
❧ Sajal Roy & Pritam Rajak	
❖ ROLE OF STAKEHOLDERS IN QUALITY IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS	78
❧ Amit Ahuja & Richi Pahuja	
❖ IMPACT OF NEP 2020 ON HIGHER EDUCATION AND OPPORTUNITIES FOR STAKEHOLDERS ...	83
❧ Amit Ahuja & Rajani Upadhyay	
❖ ROLE OF STAKEHOLDERS IN THE PROCESS OF CONTINUOUS IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS	93
❧ C. Parameswari, S. Rathnamala & S. Siva Ranjani	

DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE?

Masum Ahmed*, Bidyut Bikash Baishya, Ira Das and Namita Das
Department of Economics, Pragjyotish College, Guwahati, Assam
*For correspondence. (ahmedmasum9854264084@gmail.com)

ABSTRACT

Students have been at the centre of the education policy-making process. This necessitates students' active participation and the understanding of their rights as well as awareness of policy guidelines. Based on a primary survey of 226 students in Kamrup (Metropolitan) and Kamrup districts of Assam, India, this paper explores students' awareness about National Assessment and Accreditation Council (NAAC). The data revealed that most undergraduate students are ill-informed of NAAC's assessment criteria. Criteria 2 of NAAC's assessment focuses on the Teaching-Learning Process. The students need to gain a full understanding of the process in order to identify areas in which they can improve personally contribute to the growth of their academic institutions. A minimum of one awareness program about NAAC's assessment criteria should be conducted with the students each year by the educational institutions. This will serve as a reminder to the students and to the teaching and

Name of the author/teacher- Dr Ira Das

Cover page-

QUALITY AFTER ACCREDITATION

Proceedings of NAAC Sponsored National Conference on Quality
Improvement in Post-Accreditation Scenario in Higher Educational
Institutions – Role of Stakeholders

Editors

Namita Das

Pragjyotish College
Guwahati, Assam, India

Manjit Kr. Mazumdar

Pragjyotish College
Guwahati, Assam, India

Samrat Dey

Pragjyotish College
Guwahati, Assam, India



JD Printers & Publication

Kamakhya, Guwahati-10

❖ DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE? .. 47	
❧ Masum Ahmed, Bidyut Bikash Baishya, Ira Das & Namita Das	
❖ RE-VISITING THE ROLE OF STAKEHOLDERS IN POST- ACCREDITATION SCENARIO IN HIGHER EDUCATIONAL INSTITUTION: A BRIEF REVIEW WITH REFERENCE TO HUMANITIES SECTION	61
❧ Laltlanzuol Khawbung	
❖ PERFORMANCE AND ACCREDITATION STATUS OF HIGHER EDUCATION INSTITUTIONS IN WEST BENGAL	71
❧ Sajal Roy & Pritam Rajak	
❖ ROLE OF STAKEHOLDERS IN QUALITY IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS	78
❧ Amit Ahuja & Richi Pahuja	
❖ IMPACT OF NEP 2020 ON HIGHER EDUCATION AND OPPORTUNITIES FOR STAKEHOLDERS ...	83
❧ Amit Ahuja & Rajani Upadhyay	
❖ ROLE OF STAKEHOLDERS IN THE PROCESS OF CONTINUOUS IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS	93
❧ C. Parameswari, S. Rathnamala & S. Siva Ranjani	

DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE?

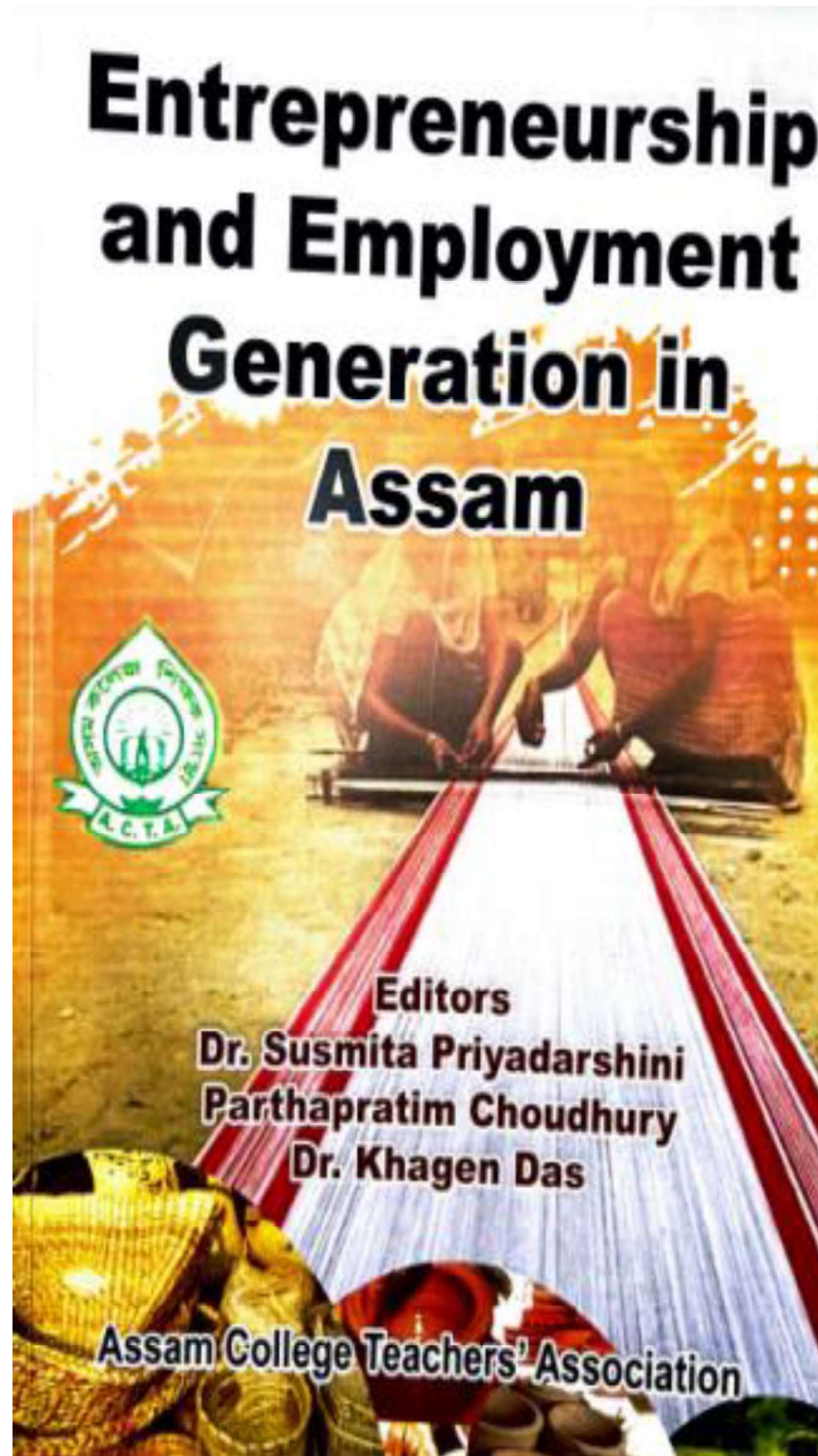
Masum Ahmed*, Bidyut Bikash Baisya, Ira Das and Namita Das
Department of Economics, Pragjyotish College, Guwahati, Assam
*For correspondence. (ahmedmasum9854264084@gmail.com)

ABSTRACT

Students have been at the centre of the education policy-making process. This necessitates students' active participation and the understanding of their rights as well as awareness of policy guidelines. Based on a primary survey of 226 students in Kamrup (Metropolitan) and Kamrup districts of Assam, India, this paper explores students' awareness about National Assessment and Accreditation Council (NAAC). The data revealed that most undergraduate students are ill-informed of NAAC's assessment criteria. Criteria 2 of NAAC's assessment focuses on the Teaching-Learning Process. The students need to gain a full understanding of the process in order to identify areas in which they can improve personally contribute to the growth of their academic institutions. A minimum of one awareness program about NAAC's assessment criteria should be conducted with the students each year by the educational institutions. This will serve as a reminder to the students and to the teaching and

Name of the author/teacher- Dr Ira Das

Cover page-



Content

- ◆ Editorial /7
 - ◆ Entrepreneurship and Employment Generation in Assam
“A Glance into Assam’s Economy”
Shreekant Sharma
Alla Sai Namrata/11
 - ◆ Growth and Growth Drivers of Entrepreneurship Development
in Assam: Linking with Economic Growth and Employment
Ira Das/24
 - ◆ Atmanirbhar Bharat: Women Empowerment through
Entrepreneurship Development in India
(With some success stories of women entrepreneur of Assam)
Dr Bidisha Mahanta,
Ms. Mrinali Mahanta/43
 - ◆ Youth Unemployment and Entrepreneurship: Problems and
Prospects
Dr. Trailokya Deka/54
 - ◆ Key Philosophy to Successful Entrepreneurship
Dr. Arundhati Lahon/64
 - ◆ Prospects and Problems of Bamboo based Japi (Head Gear)
Making Industry of Assam
Gitanjali Goswami/71
 - ◆ Entrepreneurship Development and the Minority Poor Women:
A Study-
Dr Kingshuk Chakraborty/85
 - ◆ Entrepreneurship through Food Processing Industry in Assam:
Challenges and Opportunities-
Dr. Bishnu Bhattacharyya
Dr. Nandita Goswami/94
 - ◆ Social Entrepreneurship and Women Empowerment-
Dr. Alaka Hujuri/110
 - ◆ Social Entrepreneurship and Socio Economic Well Being
(Based on the case studies of Jorhat District)-
Ranju Kumar Bharali/123
- Entrepreneurship and Employment Generation in Assam 3

First page of the publication-

Growth and Growth Drivers of Entrepreneurship Development in Assam: Linking with Economic Growth and Employment

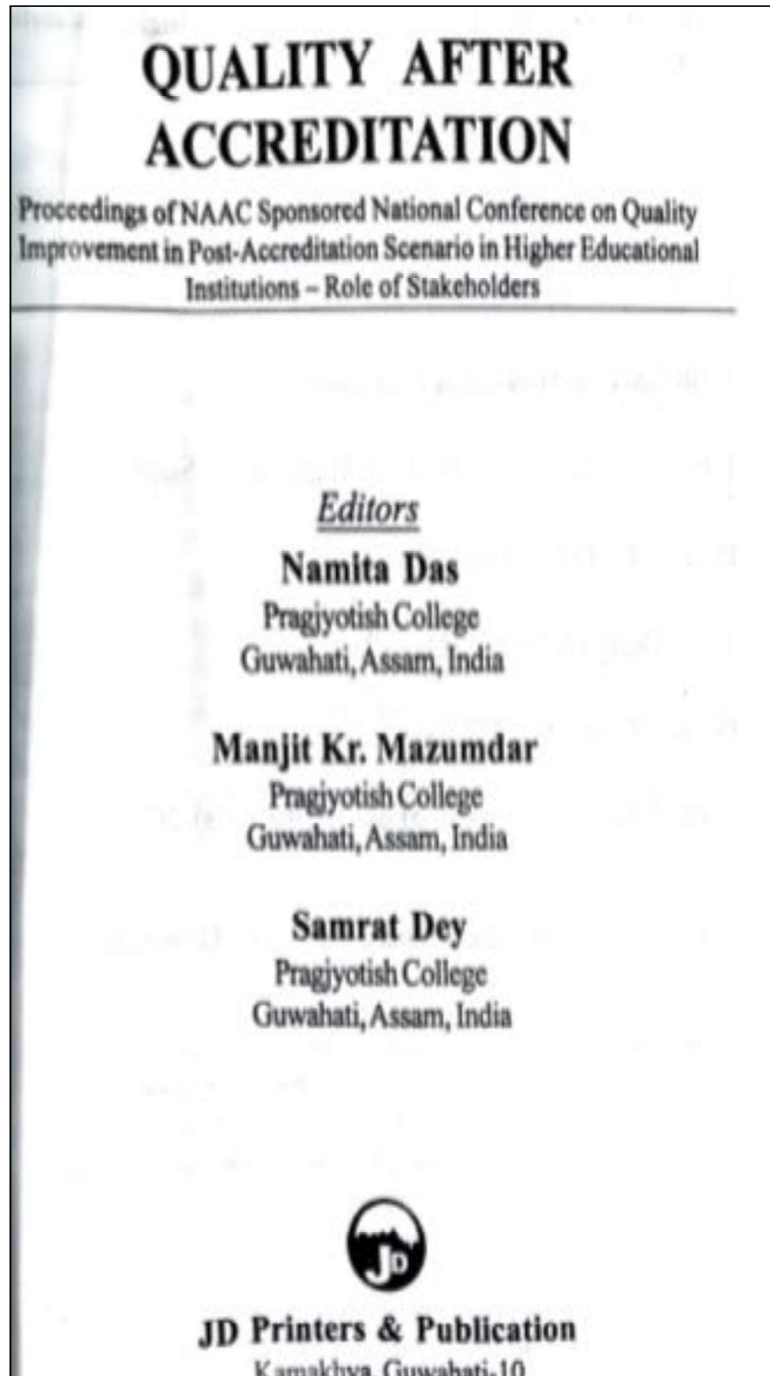
Dr. Ira Das
Associate Professor,
Dept. of Economics, Pragjyotish College

Abstract

The economic growth process of a country is very much influenced by entrepreneurial activities at various levels. Entrepreneurship is also known as an effective and powerful tool for employment generation and poverty alleviation of the people. It is also regarded as a key determinant of sustainable development of any country. There is enough scope for all round economic development through entrepreneurship development in Assam. Therefore, the present study tries to analyse the growth of entrepreneurship development in the state in comparison with that of all India. This research article also tries to examine the factors influencing growth of necessity driven, opportunity driven and growth driven entrepreneurial activities in Assam. It is found from the study that the growth rates of opportunity driven and growth driven entrepreneurial activities are more than necessity driven entrepreneurial activities in the state which is encouraging for the overall economic development the state. It is also found from the study that government investment and government institutions are influential factors affecting necessity driven entrepreneurship in the state. Similarly, government investment and employment generation

Name of the author-Dr Bidyut Bikash Baishya

Cover page-



Content page-

- ❖ DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE? .. 47
 - **Masum Ahmed, Bidyut Bikash Baishya, Ira Das & Namita Das**

- ❖ RE-VISITING THE ROLE OF STAKEHOLDERS IN POST- ACCREDITATION SCENARIO IN HIGHER EDUCATIONAL INSTITUTION: A BRIEF REVIEW WITH REFERENCE TO HUMANITIES SECTION 61
 - **Laltlanzuol Khawbung**

- ❖ PERFORMANCE AND ACCREDITATION STATUS OF HIGHER EDUCATION INSTITUTIONS IN WEST BENGAL 71
 - **Sajal Roy & Pritam Rajak**

- ❖ ROLE OF STAKEHOLDERS IN QUALITY IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 78
 - **Amit Ahuja & Richi Pahuja**

- ❖ IMPACT OF NEP 2020 ON HIGHER EDUCATION AND OPPORTUNITIES FOR STAKEHOLDERS ... 83
 - **Amit Ahuja & Rajani Upadhyay**

- ❖ ROLE OF STAKEHOLDERS IN THE PROCESS OF CONTINUOUS IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 93
 - **C. Parameswari, S. Rathnamala & S. Siva Ranjani**

DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE?

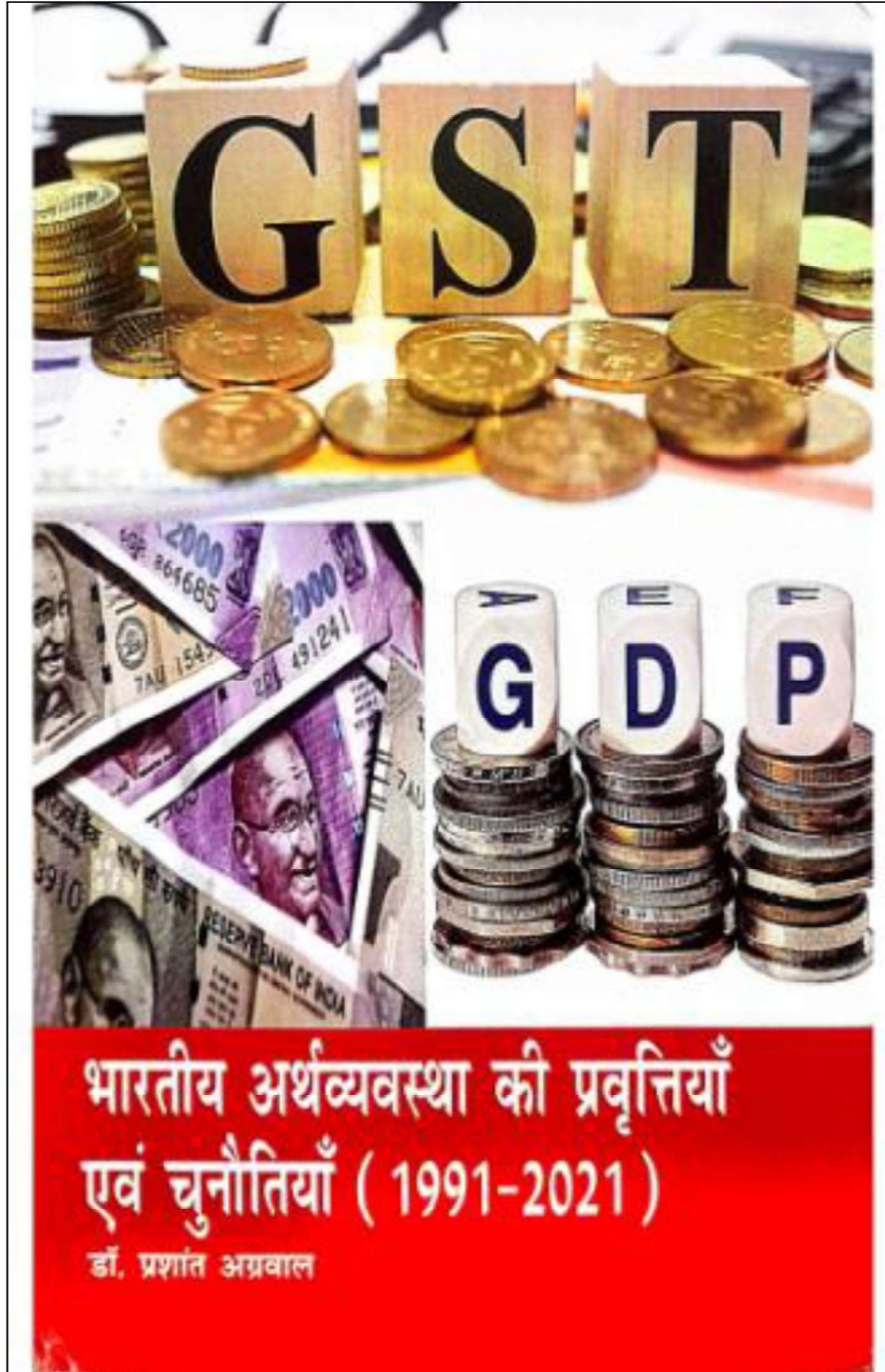
Masum Ahmed*, Bidyut Bikash Baishya, Ira Das and Namita Das
Department of Economics, Pragjyotish College, Guwahati, Assam
*For correspondence. (ahmedmasum9854264084@gmail.com)

ABSTRACT

Students have been at the centre of the education policy-making process. This necessitates students' active participation and the understanding of their rights as well as awareness of policy guidelines. Based on a primary survey of 226 students in Kamrup (Metropolitan) and Kamrup districts of Assam, India, this paper explores students' awareness about National Assessment and Accreditation Council (NAAC). The data revealed that most undergraduate students are ill-informed of NAAC's assessment criteria. Criteria 2 of NAAC's assessment focuses on the Teaching-Learning Process. The students need to gain a full understanding of the process in order to identify areas in which they can improve personally contribute to the growth of their academic institutions. A minimum of one awareness program about NAAC's assessment criteria should be conducted with the students each year by the educational institutions. This will serve as a reminder to the students and to the teaching and

Name of the author- Dr Bidyut Bikash Baishya

Cover Page-



भारतीय अर्थव्यवस्था की प्रवृत्तियाँ
एवं चुनौतियाँ (1991-2021)

डॉ. प्रशांत अग्रवाल

Content Page-

v

- | | | |
|-----|---|-----|
| 9. | सतत विकास लक्ष्य में उत्तर प्रदेश की भूमिका एवं
वर्तमान स्थिति
- डॉ. शम्भू नाथ सिंह | 110 |
| 10. | विस्थापन: स्थानीय विकास परिधि का एक ज्वलंत मुद्दा
एवं जटिल आर्थिक समस्या
(असम राज्य के संदर्भ में एक विश्लेषणात्मक अध्ययन)
- डॉ. विद्युत विकास वैश्य | 126 |
| 11. | आधुनिक भारतीय अर्थव्यवस्था में सहकारिता
- डॉ. प्रशांत अग्रवाल | 135 |

विस्थापन: स्थानीय विकास परिधि का एक ज्वलंत मुद्दा एवं जटिल आर्थिक समस्या

(असम राज्य के संदर्भ में एक विश्लेषणात्मक अध्ययन)

— डॉ. विद्युत बिकास बैश्य

सारांश

विकास के परिप्रेक्ष्य में विस्थापन का मुद्दा एक अहम् हस्तक्षेप रखता है तथा विस्थापन से प्रभावित होने वाले प्रदेश की अर्थव्यवस्था में आमूलचूल परिवर्तन लाकर विकास पथ की एक गंभीर समस्या बन जाता है। कई बार यह विस्थापन राष्ट्रीय सामरिक दृष्टि से अत्यंत महत्व का हो जाता है जो केवल अर्थव्यवस्था ही नहीं अपितु राष्ट्रीय अस्मिता को प्रभावित करता है और राष्ट्रों के पारस्परिक संबंधों का निर्धारण करता है।

पूर्वोत्तर राज्य असम की जनसांख्यिकी का अध्ययन करें तो हम पायेंगे कि वहाँ की जनसंख्या का ग्राफ ऊँचा लाने में विस्थापन की महत्वपूर्ण भूमिका रही है। यहाँ संशोधक ने यह समझने का प्रयास किया है कि असम राज्य में विस्थापन का वास्तविक परिदृश्य क्या है? और इसके लिए अधिकृत रूप से उपलब्ध जनसांख्यिक आंकड़ों के दशकीय परिवर्तनों का तुलनात्मक अध्ययन कर उन कारणों को भी जानने का प्रयास किया है कि किन कारणों से असम राज्य में यह विस्थापन आकार ले रहा है।

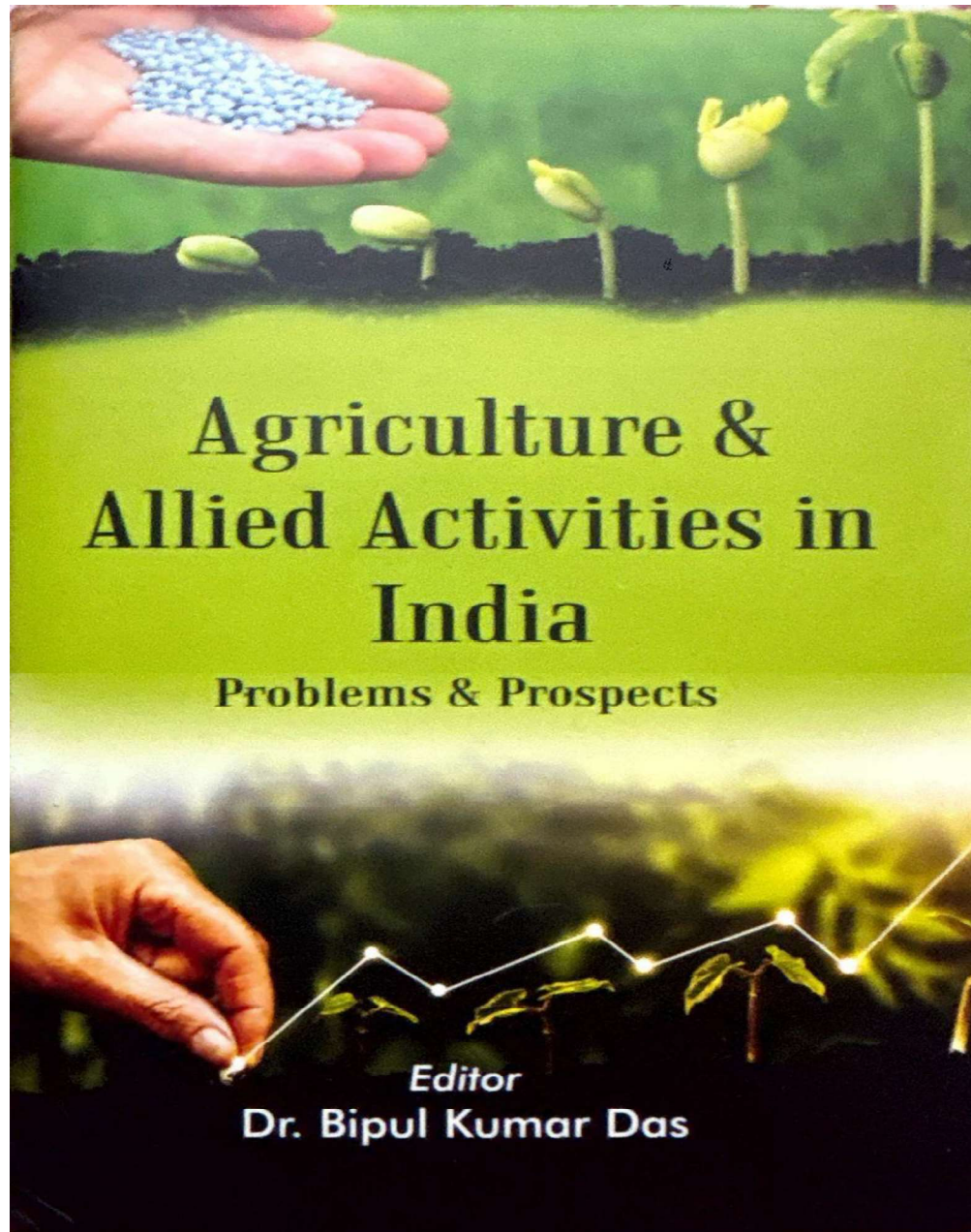
कुंजी शब्द- विस्थापन, सांख्यिकीय आंकड़ों में दशकीय परिवर्तनों की तुलनात्मक स्थिति, अन्तर्राज्यीय व अन्तर्राष्ट्रीय विस्थापन के प्रमुख कारण

प्रस्तावना

जनसांख्यिक आंकड़ों में जन्म-मृत्युदर व प्रजनन क्षमता के पश्चात विस्थापन जनसंख्या परिवर्तन का एक महत्वपूर्ण घटक है। आजादी से पूर्व एवं पश्चात असम राज्य सीमावर्ती राज्यों तथा देश के विभिन्न भागों में होने वाले आंदोलनों की जमीं बना

Name of the author- Dr Bidyut Bikash Baishya

Cover Page-

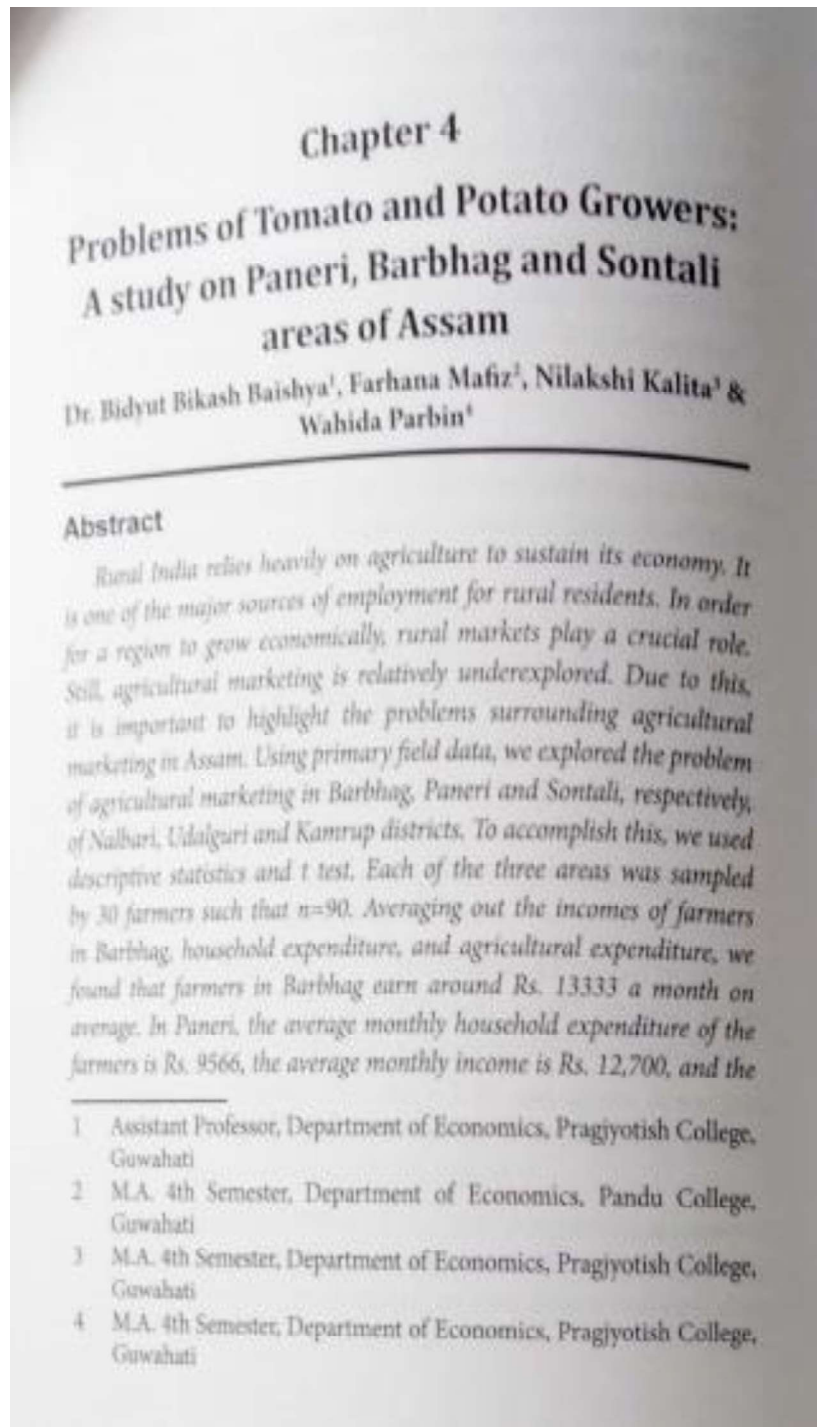


Contents

<i>Preface</i>	V
Section I: Some Agricultural Issues of Assam	
1. Present Status of Small Tea Growers of Assam – Problems & Prospects <i>Mr Ankur Gogoi and Dr. Rashida Taahira Noorain</i>	1
2. Agrarian Crisis and Rural Distress in Flood Affected Areas: A case study on the River Island District of Assam, India <i>Miss Mondira Tamuli</i>	24
3. Development of Income and Productivity in Potato Cultivation: A Study in Brahmaputra Valley of Assam, India <i>Dr. Rimjim Bordoloi</i>	37
4. Problems of Tomato and Potato Growers: A study on Paneri, Barbhag and Sontali areas of Assam <i>Dr. Bidyut Bikash Baishya, Farhana Mafiz Nilakshi Kalita and Wahida Parbin</i>	50



First page of the publication-



Name of the author- Masum Ahmed

Cover Page-

QUALITY AFTER ACCREDITATION

Proceedings of NAAC Sponsored National Conference on Quality
Improvement in Post-Accreditation Scenario in Higher Educational
Institutions – Role of Stakeholders

Editors

Namita Das

Pragjyotish College
Guwahati, Assam, India

Manjit Kr. Mazumdar

Pragjyotish College
Guwahati, Assam, India

Samrat Dey

Pragjyotish College
Guwahati, Assam, India



JD Printers & Publication

Kamakhya, Guwahati-10

- ❖ DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE? .. 47
 - **Masum Ahmed, Bidyut Bikash Baishya, Ira Das & Namita Das**

- ❖ RE-VISITING THE ROLE OF STAKEHOLDERS IN POST- ACCREDITATION SCENARIO IN HIGHER EDUCATIONAL INSTITUTION: A BRIEF REVIEW WITH REFERENCE TO HUMANITIES SECTION 61
 - **Lallianzuol Khawbung**

- ❖ PERFORMANCE AND ACCREDITATION STATUS OF HIGHER EDUCATION INSTITUTIONS IN WEST BENGAL 71
 - **Sajal Roy & Pritam Rajak**

- ❖ ROLE OF STAKEHOLDERS IN QUALITY IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 78
 - **Amit Ahuja & Richi Pahuja**

- ❖ IMPACT OF NEP 2020 ON HIGHER EDUCATION AND OPPORTUNITIES FOR STAKEHOLDERS ... 83
 - **Amit Ahuja & Rajani Upadhyay**

- ❖ ROLE OF STAKEHOLDERS IN THE PROCESS OF CONTINUOUS IMPROVEMENT IN HIGHER EDUCATIONAL INSTITUTIONS 93
 - **C. Parameswari, S. Rathnamala & S. Siva Ranjani**

DOES NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) GRADING MATTER WHILE ENROLLING IN A COLLEGE?

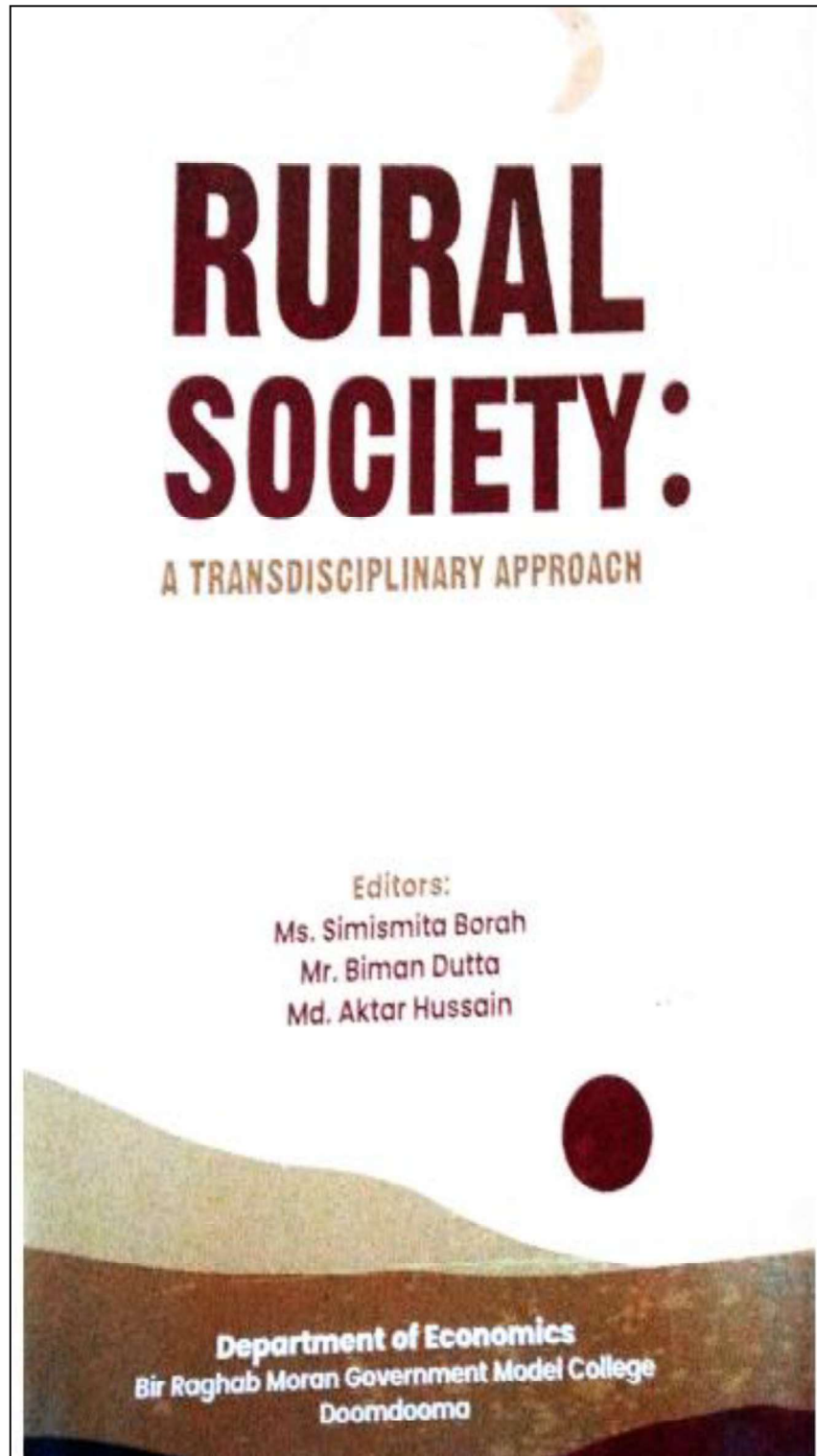
Masum Ahmed*, Bidyut Bikash Baishya, Ira Das and Namita Das
Department of Economics, Pragjyotish College, Guwahati, Assam
*For correspondence. (ahmedmasum9854264084@gmail.com)

ABSTRACT

Students have been at the centre of the education policy-making process. This necessitates students' active participation and the understanding of their rights as well as awareness of policy guidelines. Based on a primary survey of 226 students in Kamrup (Metropolitan) and Kamrup districts of Assam, India, this paper explores students' awareness about National Assessment and Accreditation Council (NAAC). The data revealed that most undergraduate students are ill-informed of NAAC's assessment criteria. Criteria 2 of NAAC's assessment focuses on the Teaching-Learning Process. The students need to gain a full understanding of the process in order to identify areas in which they can improve personally contribute to the growth of their academic institutions. A minimum of one awareness program about NAAC's assessment criteria should be conducted with the students each year by the educational institutions. This will serve as a reminder to the students and to the teaching and

Name of the author- Masum Ahmed

Cover page-



Content page

11. Sustainable Livelihood Practices of Self-Help Group towards Economic Empowerment of Women in Tinsukia District, Assam <i>Sangita Mahanta / Dr. Amit Choudhury</i>	90
12. Problems of Rural Women Entrepreneurs in India <i>Prayashi Goutam</i>	101
13. Digital Transactions in India, Panacea with Hidden Costs : A Review of Literature <i>Masum Ahmed / Anwesha Mahanta</i>	112
14. Mental Health of Students in Lockdown 2020 : A Sociological Study <i>Kakil Gogoi / Racheal D Sangma</i>	120
15. Thinking with Rural Entrepreneurship in Assam <i>Bodrul Islam / Saddam Faruque</i>	131
16. A Critical Study of Past and Present Movements of Women Education in Assamese Society <i>Juned Ahmed</i>	137
17. Attitude of Parents towards Continuous and Comprehensive Evaluation (CCE) at Elementary Schools of Lakhimpur District of Assam <i>Dr. Mithun Mondal / Dr. Sanjay Kumar Maurya</i>	140
18. Role of Bell Metal Craft in Rural Development : An analysis at Sarthebari Region of Assam <i>Priti Devi</i>	151
19. Agriculture and Non-Agricultural Sources of Rural Livelihood in The Moran Community of Tinsukia District, Assam <i>Dipika Kachari</i>	161
20. Reflection of Rural Society in the Novel Namgharia <i>Dr. Palash Das</i>	171
21. Role of Education in Holistic Development of A Child : A Case Study <i>Abhijnan Pritam Sarma</i>	181

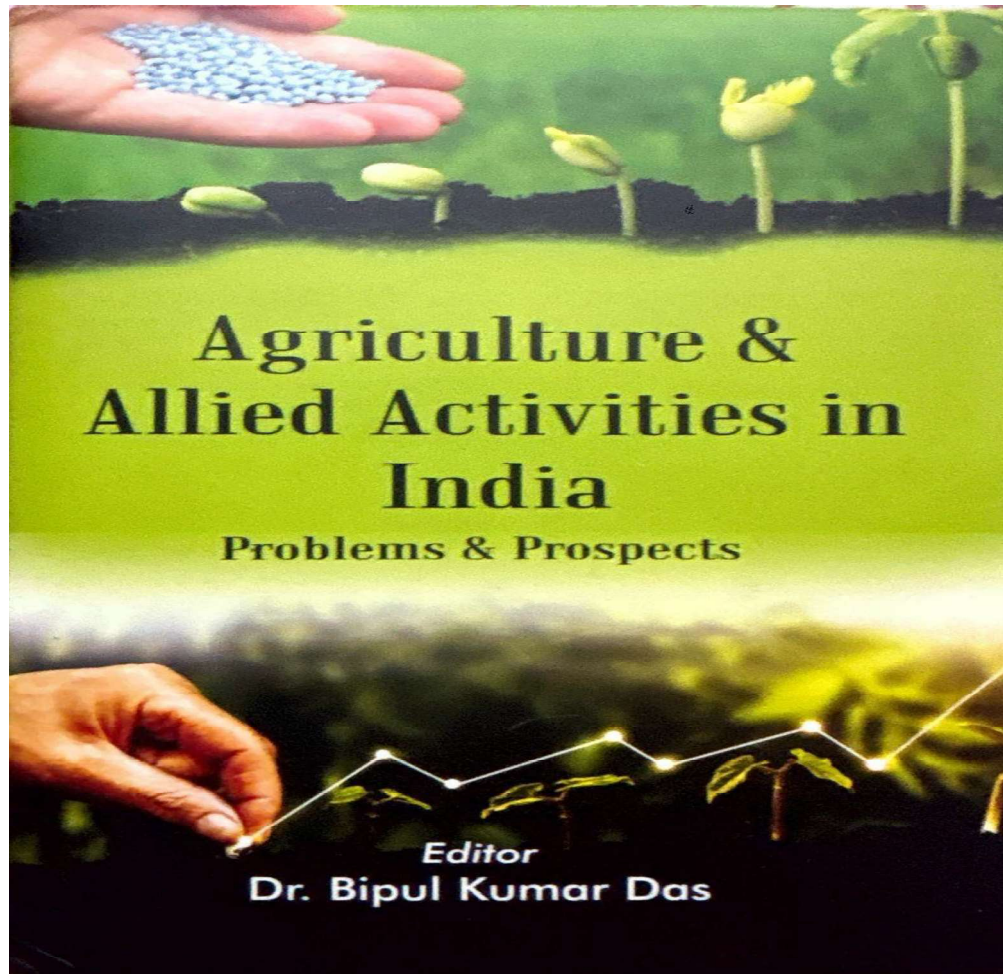
*** **

First page of the publication-



Name of the author- Masum Ahmed

Cover page-



Content page-

18. What an untapped opportunity! Pisciculture in Assam: a study of South Kamrup and Gohpur <i>Ashok Pradhan, Palashjyoti Das, & Masum Ahmed</i>	249
19. Agro-based Clusters: A Tool for Effective Management for Regional Development <i>Parijat Bhatt & Dr. Dhriti Das</i>	262
20. Farm Laws 2020: Problems and Prospects in Indian Agriculture <i>Junu Rahang, Archana Saharia K. Neisi Singson & Dr. Kakoli Das</i>	280

First page of the publication-

Chapter 18

What an Untapped Opportunity! Pisciculture in Assam: A Study of South Kamrup and Gohpur.

Ashok Pradhan¹, Palashjyoti Das² & Masum Ahmed³

Abstract:

Pisciculture is one of the most underexplored sectors of Assam's rural economy, despite Assam's abundance of fresh water bodies. People use fish as a source of protein as well as a source of livelihood. During the rainy season, Assam experiences more than 2077 mm of rainfall each year, and the state hosts more than 216 ichthyofauna species due to the mighty Brahmaputra and Barak rivers, ponds and lakes. In spite of this, the state's domestic consumption cannot be met by domestic production, and therefore the state is dependent on imports of fish from Andhra Pradesh. In this context, using primary data, this paper explores the problems and prospects of fishing industry in South Kamrup and Gohpur Assam, India. Data were analysed using descriptive statistics, and t tests. Our data indicate that the average monthly income of the fish farmers is Rs. 45,063 (SD=109669.64). Only 3.22 percent of respondents have benefited from government policies relating to pisciculture. This demonstrates the relevance of the present paper.

Key Words: Pisciculture Fish, Assam, Problems of Fish industry.

18.1. Introduction:

The term "pisciculture" refers to the practice of growing and

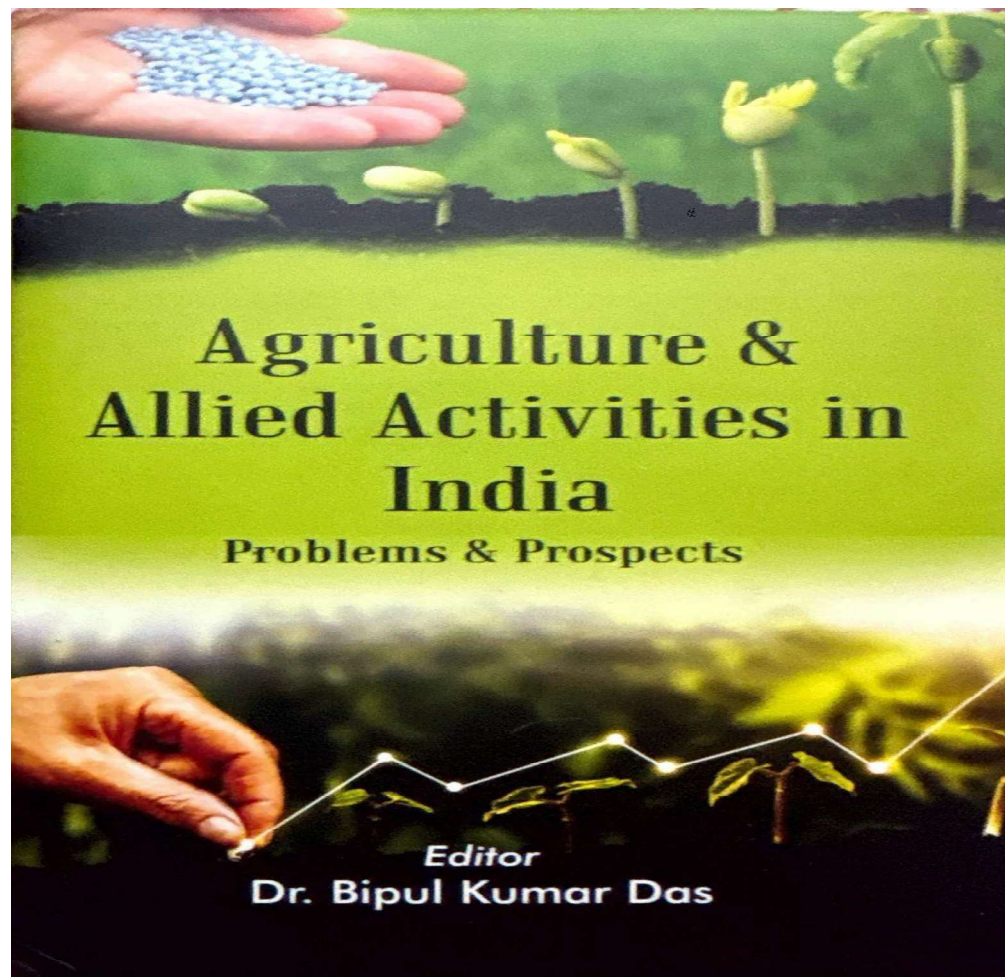
¹ Student M.A. 4th Semester, Pragjyotish College, Guwahati

² Student MA 4th Semester, Pandu College, Guwahati

³ Assistant Professor, Department of Economics, Pragjyotish College, Guwahati

Name of the author- Kritika Das

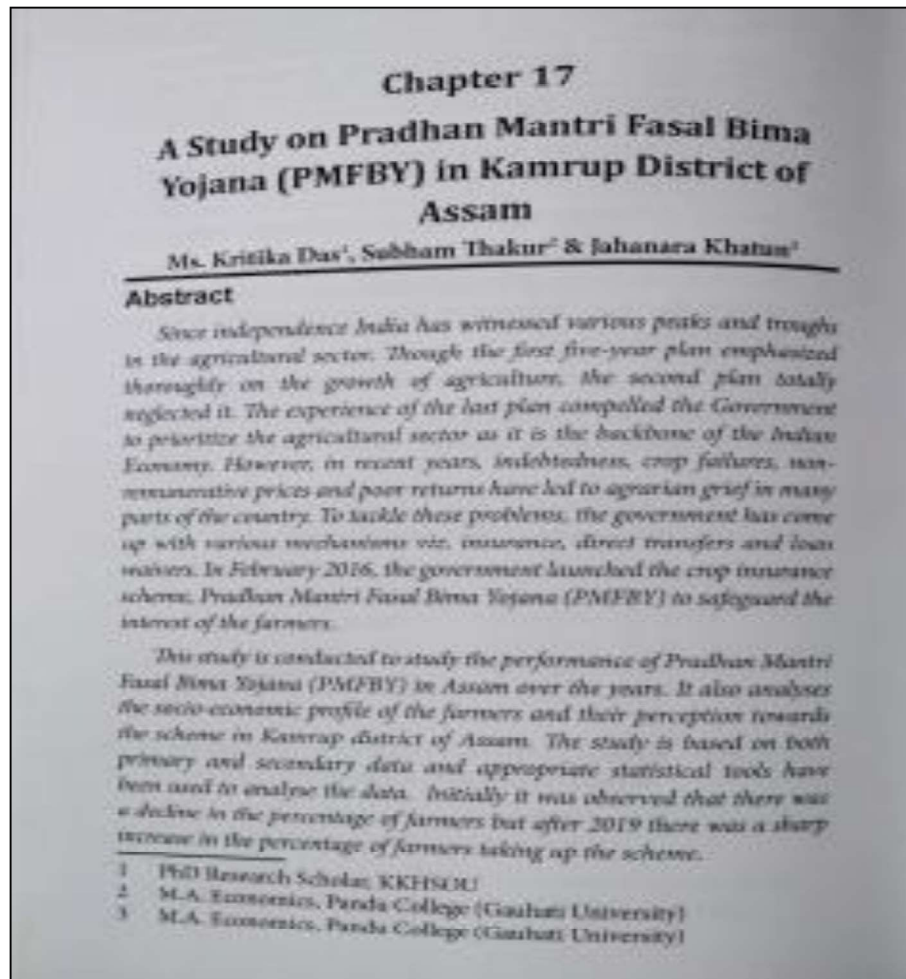
Cover page-



Content page-

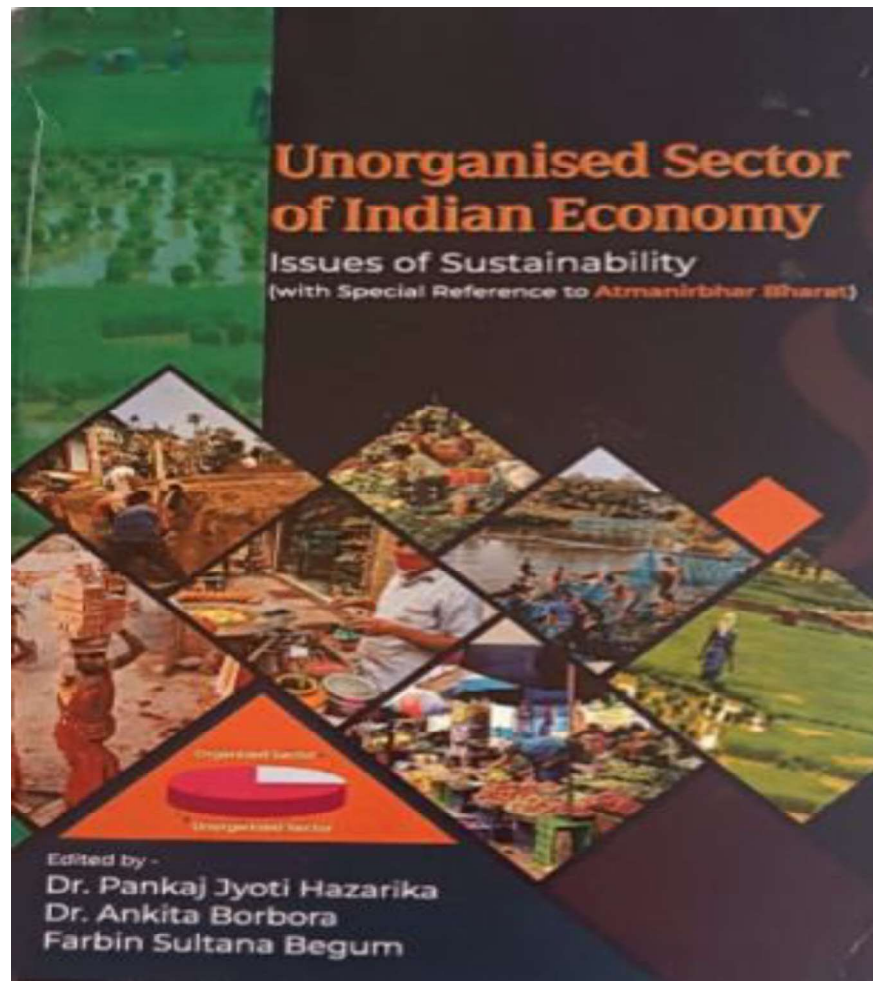
- | | |
|---|-----|
| 11. Dairy Farming and Rural Livelihood: A case study
in Amlighat, Morigaon, Assam
<i>Ratumoni Das & Suravi Kaushik</i> | 150 |
| 12. A Study on Inventory Management Practices at
Purabi Dairy
<i>Dr. Priyanka Borah & Areefa Ahmed</i> | 156 |
| Section IV: Organic Farming | |
| 13. Current status and trend of Organic farming:
Evidence from India
<i>Jyotish Engti</i> | 177 |
| 14. Organic Farming: A Sustainable Approach to
Agriculture in North Eastern India
<i>Swagatam Das & Parimita Talukdar</i> | 186 |
| 15. Food Processing and Organic farming: A Study
of Policies and Challenges of MSME units of Sikkim
<i>Dr. Tulika Devi</i> | 194 |
| Section V: Other Agricultural Issues | |
| 16. Determinants of the development of women's
labour force participation in Golaghat District, Assam
<i>Bhumika Bori</i> | 217 |
| 17. A study on Pradhan Mantri Fasal Bima Yojana
(PMFBY) in Kamrup District of Assam
<i>Kritika Das, Subham Thakur & Jahanara Khatun</i> | 236 |

First page of the publication-



Name of the author- Dr Bhrigu Kumar Nath

Cover page-



Content page-

Content		
Sl. No.	Title of the Paper & Name of the Participant	Page No.
1	Unorganized Sector in India: The Way Forward <i>Dr. Sandeep Kumar & Dr. Navdeep Kumar</i>	1-16
2	A Study on Determinants of Growth of Informal Sector <i>Mrs. Nirmali Dutta & Dr. Mridhomi Das</i>	17-38
3	Opportunities And Challenges In The Manufacturing Units Of Unorganized Sector In India <i>Sudaxina Das, Priya Ghosh</i>	39-48
4	The Rural Unorganised Sector: Special Reference to the Role of Agricultural Sector in Indian Economy, Its Challenges and Government Interventions <i>Nibir Pratin Choudhury & Sangita Mahanta</i>	49-65
5	A Review Article On The Book 'Poor Economics: A Radical Rethinking Of The Way To Fight Global Poverty' With Special Reference To The Unorganized Sector Of Economy. <i>Jyotishman Lahon</i>	66-72
6	Community Participation and Prospect of Tourism Development: A Case Study of Pabitora Wildlife Sanctuary of Assam, India <i>Dr. Bhriya Kumar Nath</i>	73-85
7	Growth and Structure of Unorganized Sector of India: An Analysis on Female Workforce <i>Ashomi Kalita</i>	86-97

First page of the publication-

**Community Participation and Prospect of Tourism
Development: A Case Study of Pabitora Wildlife
Sanctuary of Assam, India**

Dr. Bhrigu Kumar Nath

*Assistant Professor, Department of Geography, Pragjyotish
College, Assam*

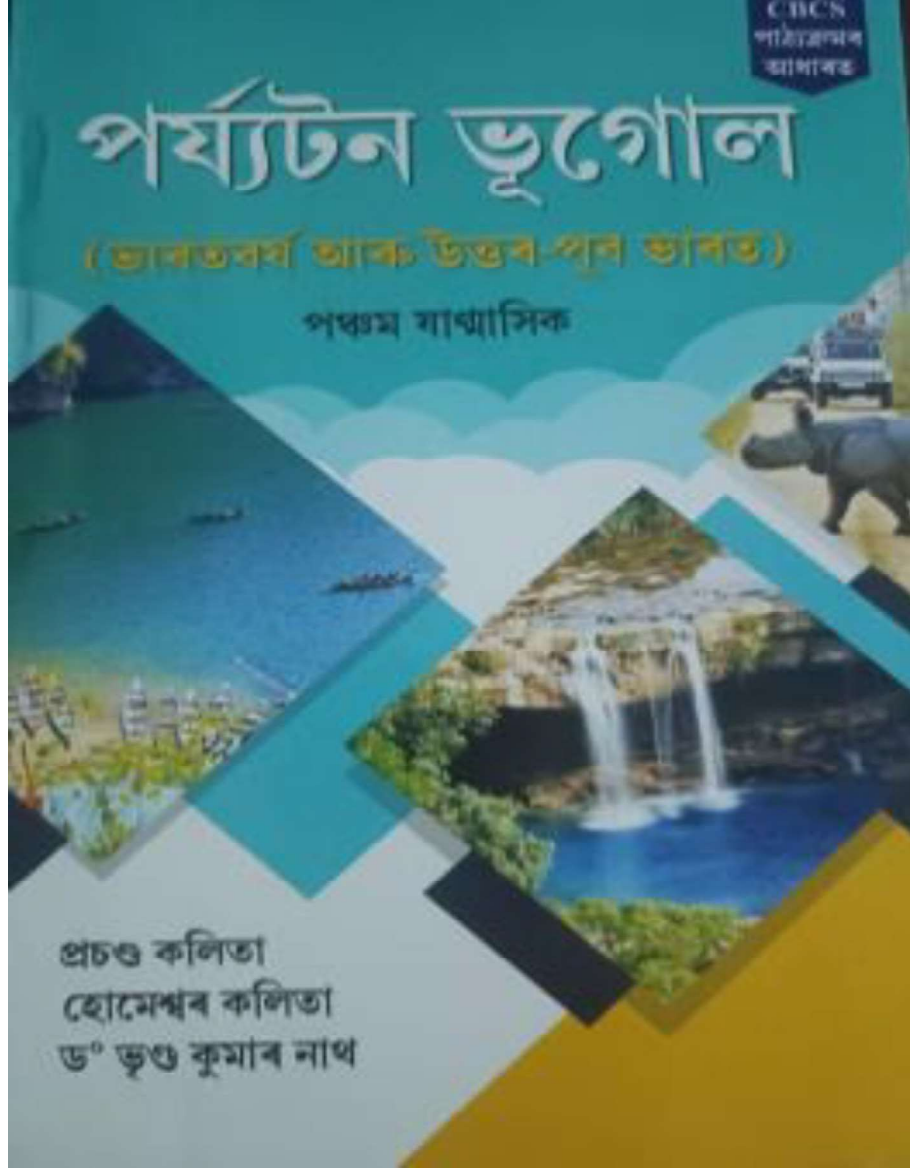
Being said as the smokeless industry tourism has gained its importance in a variety of ways. Among this, role of tourism in economic development is treated as one of the significant achievements. Tourism industry has already proved its capableness as an alternate economic booster in general and conventional economic runner. As tourism resource base, natural areas including wilderness and cultural backdrop of different societies have been playing its part for the proliferation of the industry in one hand and the socio-economic development on the other. The Pabitora Wildlife Sanctuary located in Morigaon district of Assam have a very rich biodiversity which is working as natural tourism resource base on one side and on the other hand the culturally rich villages in the periphery of the sanctuary are providing the cultural resource base for escalating the tourism industry in the area. Here an attempt has been made to infer the role of community participation in tourism in multiplying the economic succor to boost rural livelihood of the people in the area.

Keywords: *Pabitora, tourism, community, multiplier, livelihood, wilderness.*

Introduction: Tourism is often said as the 'smokeless industry.' Because of its least detrimental effect to nature and society on one side, and economic prosperity associated with it on the other, tourism has gained reputation over the years worldwide. Moreover, there are some other positive facets of tourism practices like creation of jobs, increase in foreign exchange, generating opportunities for different small-scale industries and allied services. The development of technical know-how by leaps and

Name of the author- Dr Bhrigu Kumar Nath

Cover page



Content page

সূচীপত্ৰ

সামাজিক ভূগোল

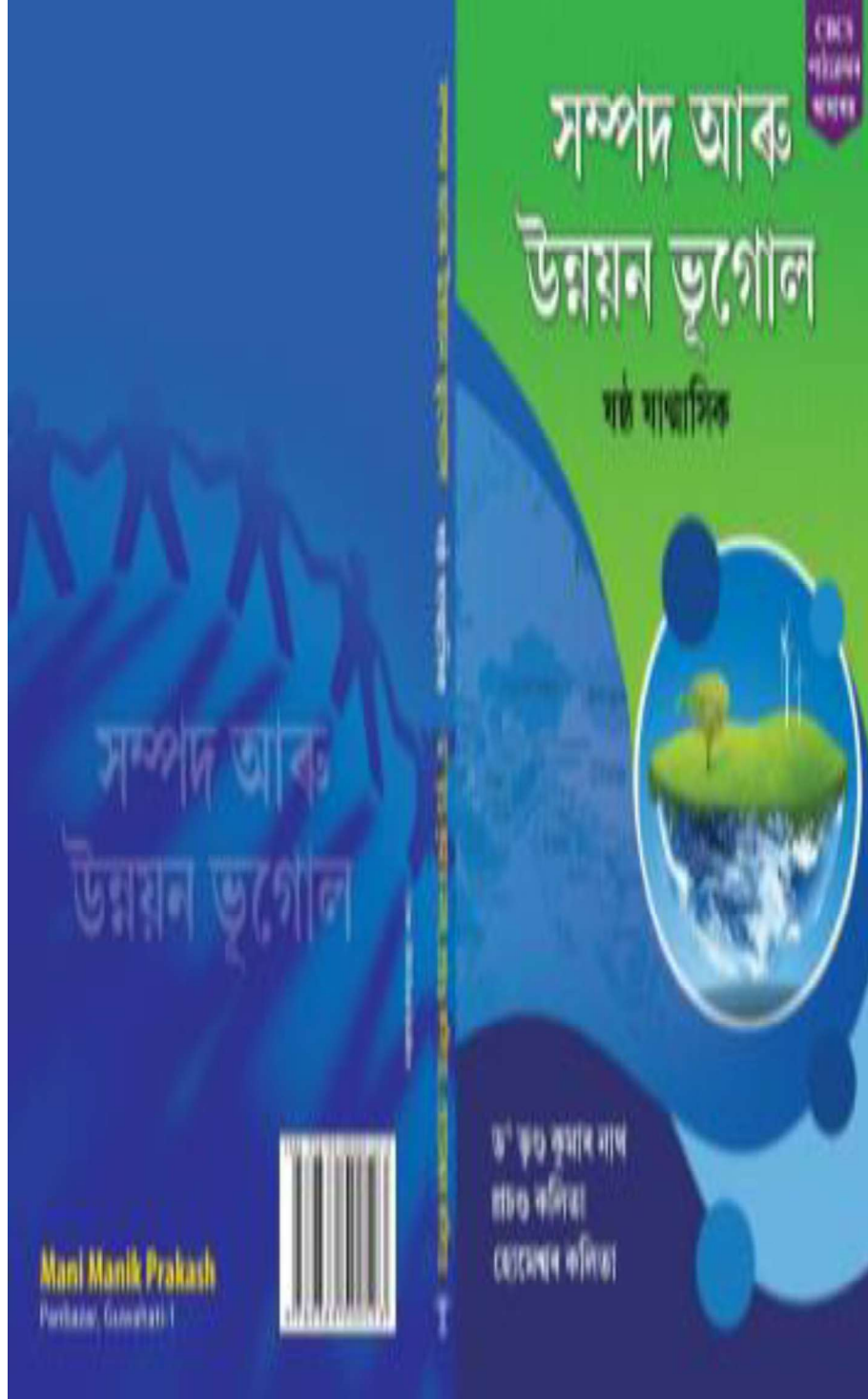
প্ৰথম গোট :	১-৭৮
১ম অধ্যায় : প্ৰথমসামাজিক ভূগোলৰ অৰ্থ, পৰিসৰ আৰু পথ	১
২য় অধ্যায় : সামাজিক অৱস্থান	৮
৩য় অধ্যায় : সামাজিক সুস্থতা	২৩
৪ৰ্থ অধ্যায় : সমাজৰ সৃষ্টি আৰু বিকাশ	৩৬
৫ম অধ্যায় : অন্তৰ্ভুক্তকৰণ আৰু আছুতীয়াকৰণৰ ভূগোল	৫০

ৰাজনৈতিক ভূগোল

দ্বিতীয় গোট :	৮১-১৪২
১ম অধ্যায় : ৰাজনৈতিক ভূগোল	৮১
২য় অধ্যায় : ৰাষ্ট্ৰৰ আৰু জাতিৰ ধাৰণা	৯৩
৩য় অধ্যায় : সীমান্ত অঞ্চল আৰু সীমা	১১৭
৪ৰ্থ অধ্যায় : ৰাজনৈতিক ভূগোল আৰু ভৌগোলিক ৰাজনীতি	১৩২

Name of the author- Dr Bhrigu Kumar Nath

Cover Page-



Content page-

		সূচীপত্র
প্রথম অধ্যায় :	সম্পদ ভূগোল আৰু উন্নয়ন	১-১৭
দ্বিতীয় অধ্যায় :	উন্নয়নৰ কাৰণে প্ৰাকৃতিক সম্পদ	১৮-৫৪
তৃতীয় অধ্যায় :	উন্নয়ন আৰু পৰিবেশ	৫৫-৯২
চতুৰ্থ অধ্যায় :	প্ৰাকৃতিক সম্পদৰ গোলকীয় সমস্যা আৰু উন্নয়ন	৯৩-১১৬
পঞ্চম অধ্যায় :	অৰ্থনৈতিক উন্নয়নৰ ধৰণ আৰু সম্পদৰ ব্যৱহাৰ	১১৭-১৫৫
<i>Bibliography</i>		১৫৬

○ ○

Name of the author- Chandrakanta Pawe

Cover page-

Content page-

First page of the publication-

Chapter 11 When the Bough Breaks: Spatial Variability of Tropospheric Ozone in the Indian Sub-continent



Aamir Salkia, Rukh Ahmed, Kiran Sharma, Khongsombo Boonpoomoi,
Chandra Kant Pawe, Souren Chetia, Ujjal D. Baruah,
Prasanta Bhattacharyya, Syeda Rizwana Yasmin, Nitashree Mishra,
Dhrubajyoti Suberish, and Pankaj Thapa

Abstract Tropospheric or ground level ozone (O_3) is an important greenhouse gas and a pollutant harmful to human health and agricultural activity. With high population pressure in the Indian Sub-continent and economies heavily reliant on agriculture and allied activities tropospheric ozone is problematic. This analysis assesses the spatial variability of tropospheric ozone using monthly AIRS/ISTM satellite data during 2002–16. The monthly images were combined and averaged to derive month-wise and four season-wise aggregates during 2002–2016 in order to understand monthly and seasonal variations in the spatial patterns of O_3 . A gain coefficient image was also generated using a GIS to visualize and depict areas with spatial variability of O_3 during the period.

Keyword Tropospheric ozone · AIRS/ISTM satellite data · Indian Sub-continent

A. Salkia (✉) · R. Ahmed · K. Sharma · K. Boonpoomoi · S. Chetia · U. D. Baruah ·
P. Bhattacharyya · S. R. Yasmin · D. Suberish
Department of Geography, Gauhati University, Gauhati, India
e-mail: asalkia@guahati.ac.in

K. Boonpoomoi
e-mail: kboonpoomoi@guahati.ac.in

S. Chetia
e-mail: schetia@guahati.ac.in

U. D. Baruah
e-mail: u.d.baruah@guahati.ac.in

D. Suberish
e-mail: dsuberish@guahati.ac.in

C. K. Pawe
Department of Geography, Pragjyotish College, Gauhati, India

U. D. Baruah · M. Mishra
Department of Geography, Cotton University, Gauhati, India

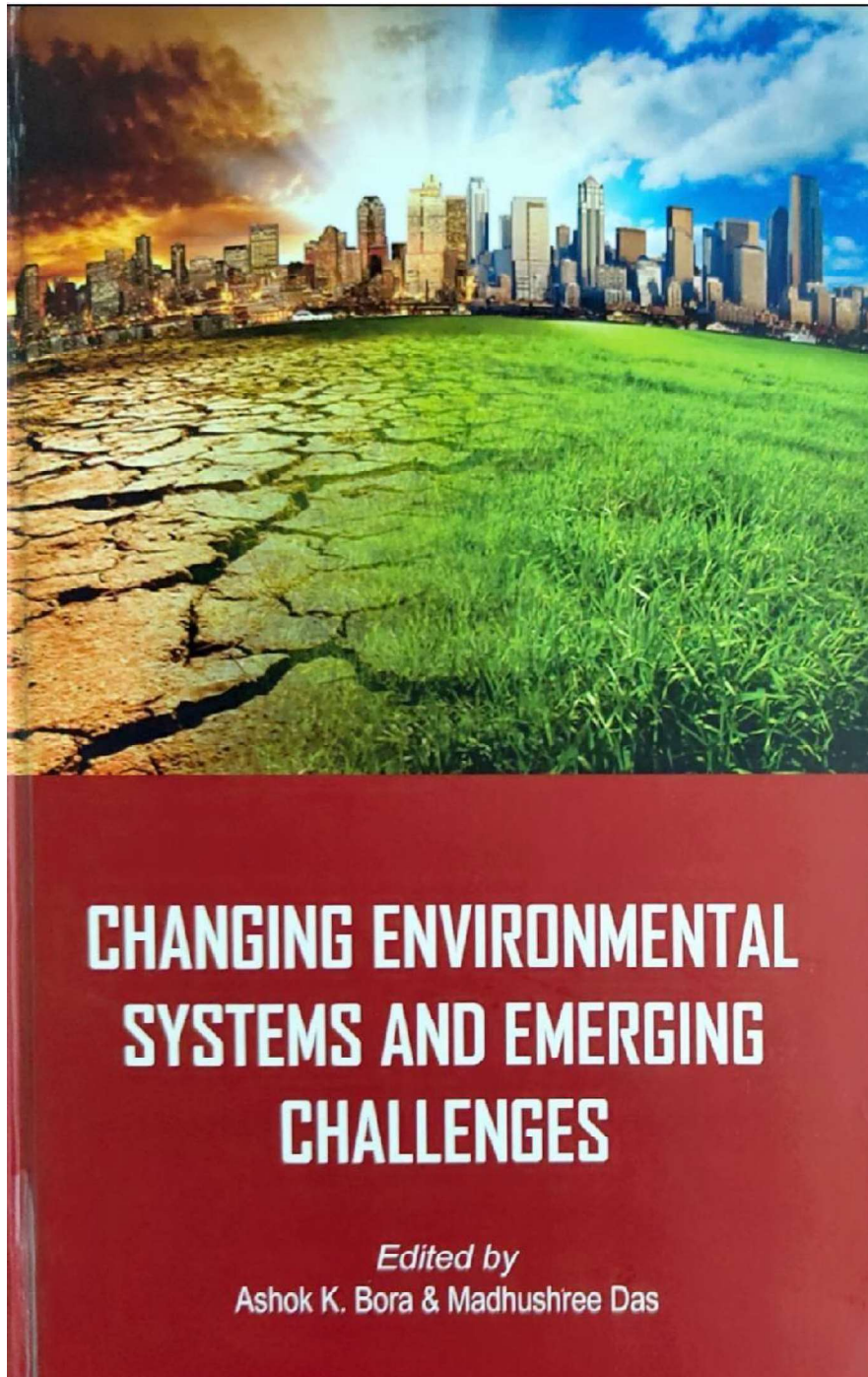
P. Thapa
Shreevate College, Royal University of Bhutan, Kanglung, Bhutan

© The Author(s), under exclusive license to Springer Nature Switzerland AG 2022
A. Salkia and P. Thapa (eds.), *Environmental Change in South Asia*,
https://doi.org/10.1007/978-3-030-67660-1_11

209

Name of the author- Dr Krishna Das

Cover page-



CONTENTS

	Pages
<i>Foreword</i>	iii
<i>Few Words from the Convenor</i>	v
<i>Preface</i>	vii
<i>List of Contributors</i>	xiv
<i>List of Figures</i>	xviii
<i>List of Tables</i>	xxii
1. An Appraisal of Physical and Socio- Economic Vulnerability of Jharkhali, Basanti Block, South 24 Parganas District, West Bengal Kanailal Das and Karabi Das	1
2. Impact of Climate Change on Hydrology of Beki-Manas Rivers and Biodiversity of Manas National Park, Assam Jyotishmoy Bora and Bimal K. Kar	15
3. Monitoring Aquatic Macrophytes in Kaziranga National Park Using Remote Sensing Indices Nabajit Hazarika, Suranjana Bhaswati Borah, Shobhana Barman and Apurba Kumar Das	38
4. Evaluating Effectiveness of Some Remote Sensing Indices for Extracting Natural Resource Information Using LANDSAT Data: A Case Study of Dhemaji District, Assam Krishna Das and Ashok Kumar Bora	53
5. Landfill Site Selection for Solid Waste Management Using GIS and MCDA Technique in Greater Shillong Area Roopjyoti Hazarika	68

4

Evaluating Effectiveness of Some Remote Sensing Indices for Extracting Natural Resource Information Using LANDSAT Data: A Case Study of Dhemaji District, Assam

Krishna Das and Ashok Kumar. Bora

Introduction

Natural resources refer to biophysical materials that satisfy human wants and provide direct inputs to human well-being (Gregory et al., 2009). Detailed and accurate natural resource information is essential for proper management of natural resources (mainly, forest/vegetation, land and water). Remote sensing indices are the mathematical derivation of band ratios of reflected wavelengths of remotely sensed satellite images. These indices are also known as *normalized* indices, because the resulted values are being normalized between 0 to ± 1 (Wolf, 2010; Subramaniam et al., 2011). Landsat satellite data have been providing various useful environmental information for nearly 40 years (Li et.al,2014). Landsat satellite data programme is a joint mission of United States Geological Survey (USGS) and NASA designed to provide global coverage and worldwide accessibility. Landsat 8 is the latest satellite data mission of USGS and NASA launched on February 11, 2013 with Operational Land Imager (OLI) and Thermal Infra-Red Sensor (TIRS) providing information in 9 spectral and 2 thermal bands (Satellite Imagine Corporation, 2015).

Name of the author- Krishna Das

First page of the publication-

The screenshot displays the Springer Link interface. At the top, there is a navigation bar with the Springer Link logo, a search bar, and a cart icon. Below this, a banner for the book 'Ecological Footprints of Climate Change' is visible. The main content area features the title 'Application of Geospatial Technology in Seasonal Flood Hazard Event in Dhemaji District of Assam' by Krishna Das and Anil Kumar Das. The chapter information indicates it is Chapter 1, published on 01 January 2022, with 278 pages. The abstract section begins with the text: 'Flood is a recurring natural event in Assam and Dhemaji district in particular. As per the flood hazard atlas of Assam prepared by the National Remote Sensing Centre of ISRO, Dhemaji is one of the worst flood-affected districts in the state with 46% of flood inundating land area. The reported flood events in Dhemaji district cause havoc to the people of the district by damaging properties and agricultural lands. To understand the seasonal flood-event in Dhemaji district of Assam, this study has been carried out using geospatial technology. This study focuses on the seasonal trend of rainfall, accumulated surface water extent, transition and seasonality, seasonal flood water extent and affected land use/land cover by recent seasonal flood events in Dhemaji district. The geospatial datasets incorporated in this study are extracted from the sources such as GPM (IMERG) derived data product using the Google platform, the Global Surface Water dataset, the EOS Land Viewer platform and the ESA CCI Land Cover data. According to the results of the study, the study area receives more than 400 mm of mean monthly rainfall during monsoon season in June, July and August. The district has about one-fifth of accumulated surface water extent area, and about 10% of new seasonal water area is added to the district during 1984–2019. This study will help policy- and decision-makers in mitigating the frequent flood events in the study area and also provide a look for similar studies in the coming days.'

Keywords: Seasonal flood, Rainfall, Surface water transition, Affected land use/land cover, Geospatial technology.

Name of the author-Krishna Das

Cover Page-

An Illustrated Geography of Assam

Editors

Ashok Kumar Bora

Mrinal Nath



EBH Publishers (India)
Guwahati-*

Content page-

Contents

<i>Foreword</i>	–	<i>vii-ix</i>
<i>Preface</i>	–	<i>x-xiii</i>
<i>List of Figures</i>	–	<i>xvii-xviii</i>
<i>List of Tables</i>	–	<i>xix-xxii</i>
<i>List of Contributors</i>	–	<i>xxiii-xxiv</i>
1. Assam Through Ages – <i>Mrinal Nath, Devajani Bhagwati Nath</i>	–	1-39
2. Topography and Physiography – <i>Krishna Das, Ashok Kumar Bora</i>	–	40-60
3. Geology and Mineral Resources – <i>Priyam Baruah</i>	–	61-77
4. Soils – <i>Ugat Baruah</i>	–	78-97
5. Climate – <i>Prasenjit Das, Bikul Barman</i>	–	98-112
6. Rivers – <i>Ashok Kumar Bora, Kavuri Borhokoti</i>	–	113-129
7. Wetlands of Brahmaputra Floodplain – <i>Dhrubajyoti Sahariah, Kuleswar Sinha</i>	–	130-150
8. Water Resources – <i>Debashree Borah, Ashok Kumar Bora</i>	–	151-165
9. Forest Resources – <i>Partha Pratim Baruah, Juthika Dihingia, Jyotsnimita Dutta, Arjun Adhikari, Sauravjyoti Borah</i>	–	166-184
10. Land Use and Land Cover – <i>Chandru Kant Pawa, Lekha Borah, Deepankar Medhi</i>	–	185-199
11. Natural Disasters – <i>Annekha Chetta, Swapnali Gogoi, Ashok Kumar Bora</i>	–	200-225

2

Topography and Physiography

*Krishna Das
Ashok Kumar Bora*

Introduction

Geographically, Assam occupies a unique position with intriguing geological, physiographic, biological, social, and cultural diversity. The Assam state is located in the north-east corner of India comprising exclusive topographic and physiographic settings with hills, plateaus and river valleys (Anonymous, 1896). The river valleys spread over four-fifth of the total land area of Assam, while plateaus and hills comprise around one-fifth of the total land area (Taber & Ahmed, 2007). The topographic appearance of Assam is different from that of most other states of India, and the inimitable topographic, as well as physiographic conditions make Assam an interesting place for researchers in understanding their diverse curiosities on innumerable geo-environmental and socio-cultural aspects of this region of the country (M'cosh, 1837). Topography and physiography are the key parameters to know about the physical geographic settings of a landscape and these parameters also act as a basis to draw information on different geographic features available on the ground (Blanc, 1967; Small & Cohen, 2004; Dobrowski *et al.*, 2009). In this study, an attempt has been made to understand the physiographic setting of Assam based on secondary sources of scientific literature. Simultaneously, the study also tries to draw a basic understanding of the topographic framework of Assam by assessing the basic terrain properties based on a digital cartographic methodology. Especially from the beginning of the 21st century, the geo-scientists in general and geographers in particular, started following the digital cartographic methodology for studying the ground

Name of the author- Dr Krishna Das

Cover page-

GEO-SPATIAL TECHNOLOGIES IN RURAL DEVELOPMENT

Editors

Dr. A. Simhachalam

Dr. R. Murugesan



Today & Tomorrow's Printers and Publishers

4436/7, Ansari Road, Daryaganj, New Delhi - 110 002

Ph : 23242621; 23241021; Fax 23242621;

E-mail: tppindia@gmail.com; info@tpp.in

Web : tpp.in

Contents

1	GAON PANCHAYAT RESOURCE INFORMATION SYSTEM OF ASSAM: A HELPING HAND IN MAKING DECISIONS AND RURAL DEVELOPMENT <i>Mustak Ali, Amlan Saikia, Runjun Baruah, Utpal Sarma and P.L.N Raju</i>	1
2	AN ASSESSMENT ON FLOOD AND EROSION DAMAGE ON MORIGAON DISTRICT BY BRAHMAPUTRA RIVER <i>Pragyashree Mahanta</i>	9
3	APPLICATION OF OPEN-SOURCE GEOSPATIAL TOOLS FOR BUILT-UP AREA MAPPING IN BARAK VALLEY REGION, ASSAM <i>Krishna Das, Ashok Kumar Bora and A. Simhachalam</i>	23
4	RURAL INFRASTRUCTURE PLANNING AND MANAGEMENT OF SHRAVASTI DISTRICT – UTTAR PRADESH <i>Ar. Sarthak Jain and Dr. Bratati Dey</i>	33
5	PREPARATION OF GIS BASED INRM PLAN FOR MGNREGA <i>Mrs. Parveen Meta and Dr. N. S.R. Prasad</i>	47
6	LOCATING MULTI HAZARD ZONES IN UTTARKASHI DISTRICT OF UTTARAKHAND USING GEOSPATIAL TECHNIQUES <i>Alina Husain, Dr. Bratati Dey, Disha Adak</i>	65
7	GROUNDWATER QUALITY AND VULNERABILITY MAPPING OF MANIPUR VALLEY USING GEOSPATIAL TECHNIQUES <i>Yumnam Gyanendra, Wazir Alam</i>	83

Geo-Spatial Technologies in Rural Development (2022): 23-32
Editors: Dr. A. Simhachalam and Dr. R. Murugesan
Today & Tomorrow's Printers and Publishers, New Delhi - 110002

3

APPLICATION OF OPEN-SOURCE GEOSPATIAL TOOLS FOR BUILT-UP AREA MAPPING IN BARAK VALLEY REGION, ASSAM

Krishna Das¹, Ashok Kumar Bora² and A. Simhachalam³

Abstract

The open-source geospatial tools enhance researchers' interests in earth's resource observations and spatial decision making for the wide application areas and free accessibility of these tools. The geospatial tools enable the researchers to examine the spatial patterns of various landscape parameters of the earth's surface with the help of remotely sensed data for addressing different geo-environmental themes. The built-up area is one of the significant parameters of the earth's landscape which imprints human modification of the natural land-cover to settlements, human-made structures, infrastructures, etc. With the help of geospatial technology, the built-up area of the earth's surface can be scientifically delineated and mapped to understand the spatial extent and dimensions of this land-use category. In this study, the open-source geospatial tools are applied for mapping the built-up area in the Barak valley region of Assam, India to observe the spatial pattern of built-up lands. The built-up area of the Barak valley region is extracted from a freely-available satellite-derived global level geospatial datasets at the high spatial resolution, and built-up area maps are prepared in open-source QGIS. Besides, the accuracy of these built-up area maps is assessed using random points observation with very high-resolution Google Earth imageries. The patch matrix of the built-up area is also

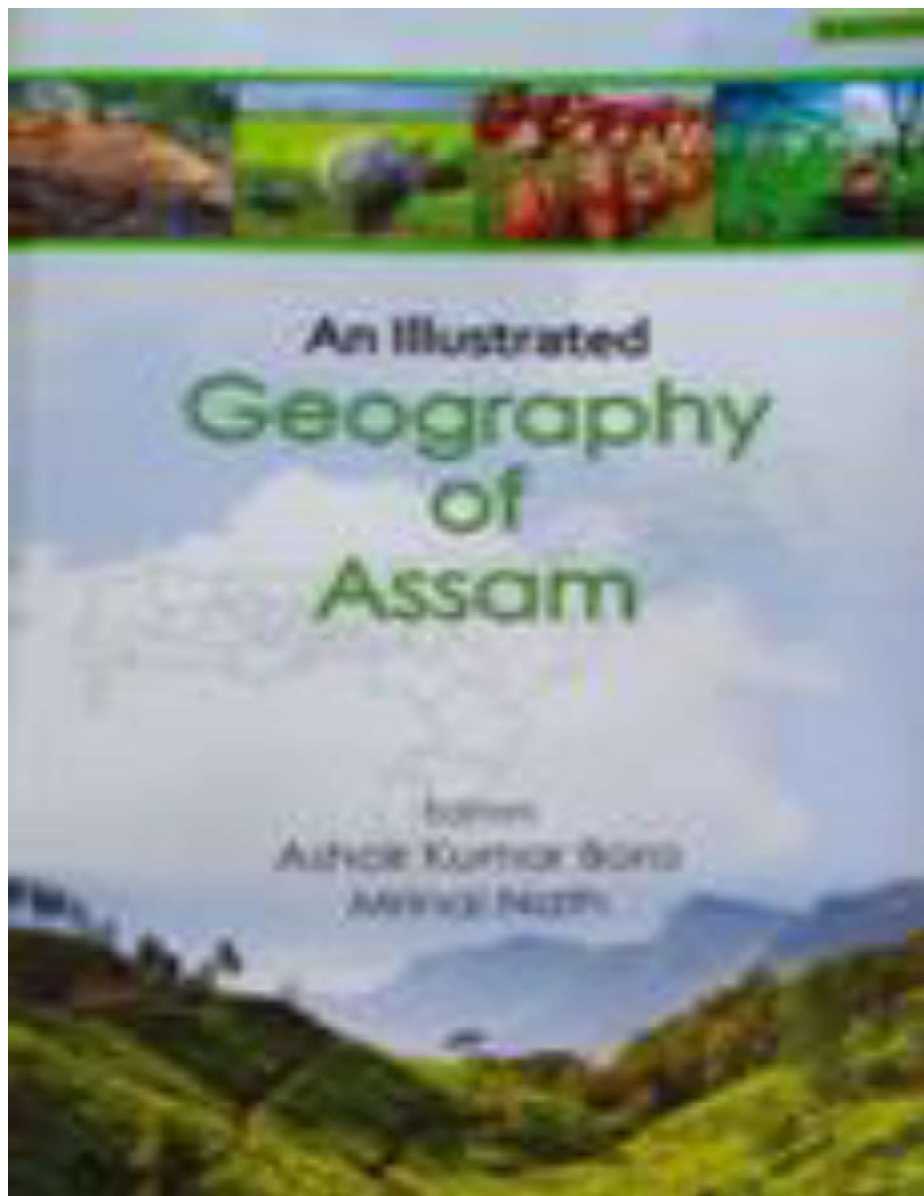
¹ Assistant professor, Department of Geography, Pragiyotish College, Guwahati-09, Assam, krishna@pragjyotishcollege.ac.in.

² Professor, Department of Geography, Gauhati University, Guwahati-14, Assam.

³ Assistant Professor, NIRDPR-NERC, Guwahati-22, Assam.

Name of the author- Dr. Priyam Barthakur

Cover page-



Content page-

Contents

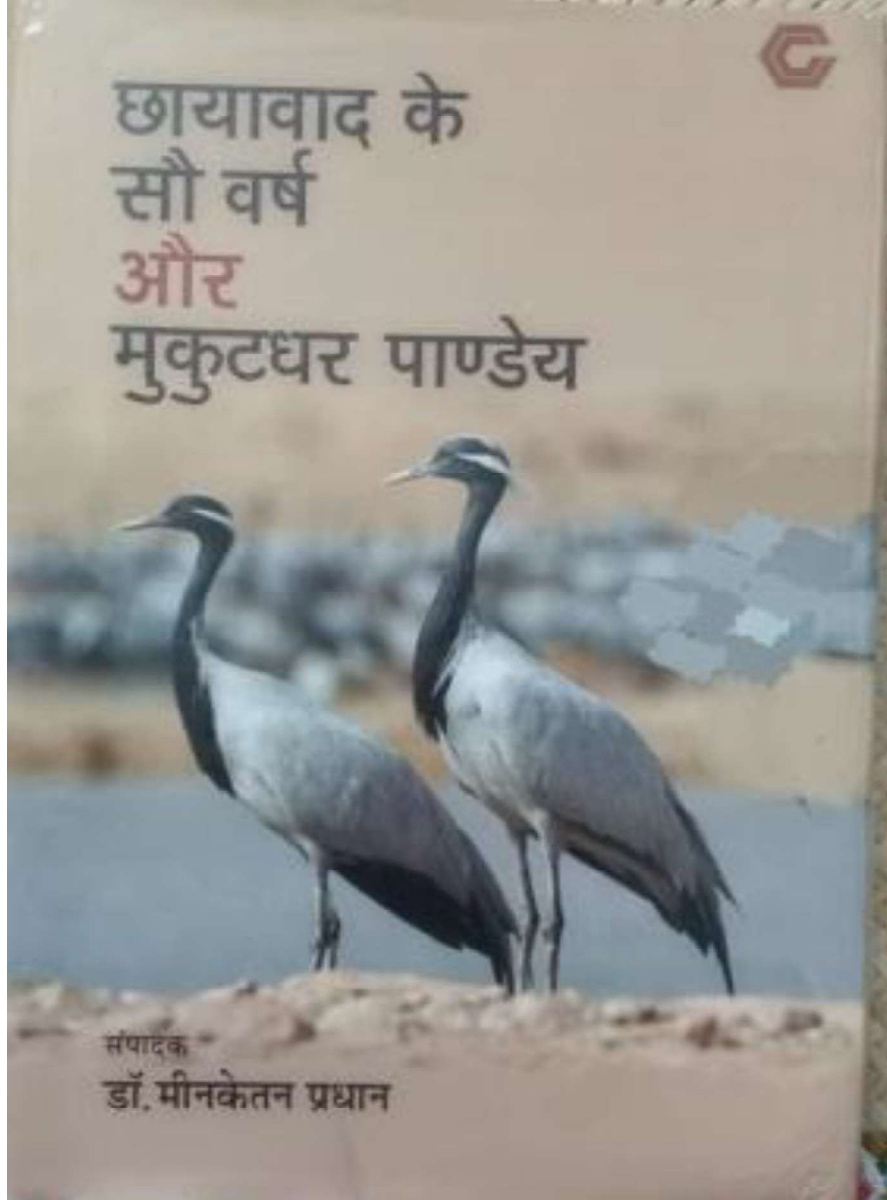
<i>Foreword</i>	-	<i>vi-ix</i>
<i>Preface</i>	-	<i>x-xiii</i>
<i>List of Figures</i>	-	<i>xvii-xviii</i>
<i>List of Tables</i>	-	<i>xix-xxii</i>
<i>List of Contributors</i>	-	<i>xxiii-xxiv</i>
1. Assam Through Ages - <i>Mrinal Nath, Devajani Bhugawati Nath</i>	-	1-39
2. Topography and Physiography - <i>Krishna Das, Ashok Kumar Bora</i>	-	40-60
3. Geology and Mineral Resources - <i>Priyam Barthakur</i>	-	61-77
4. Soils - <i>Utpal Baruah</i>	-	78-97
5. Climate - <i>Prasenjit Das, Bikul Barman</i>	-	98-112
6. Rivers - <i>Ashok Kumar Bora, Kasturi Borkotoki</i>	-	113-129
7. Wetlands of Brahmaputra Floodplain - <i>Dhrubajyoti Sahariah, Kuleswar Sinha</i>	-	130-150
8. Water Resources - <i>Debashree Borah, Ashok Kumar Bora</i>	-	151-165
9. Forest Resources - <i>Partha Pratim Baruah, Juthika Dihingia, Jyotishmita Dutta, Arjun Adhikari, Souravjyoti Borah</i>	-	166-184
10. Land Use and Land Cover - <i>Chandra Kant Pawe, Lekha Borah, Deepankar Medhi</i>	-	185-199
11. Natural Disasters - <i>Annekha Chetia, Swapnali Gogoi, Ashok Kumar Bora</i>	-	200-225

First page of the publication-



Name of the author- Pankhi Senapati

Cover page-



Content page-

अनुक्रम

भाग : 1

छायावाद : विषय-प्रवर्तन

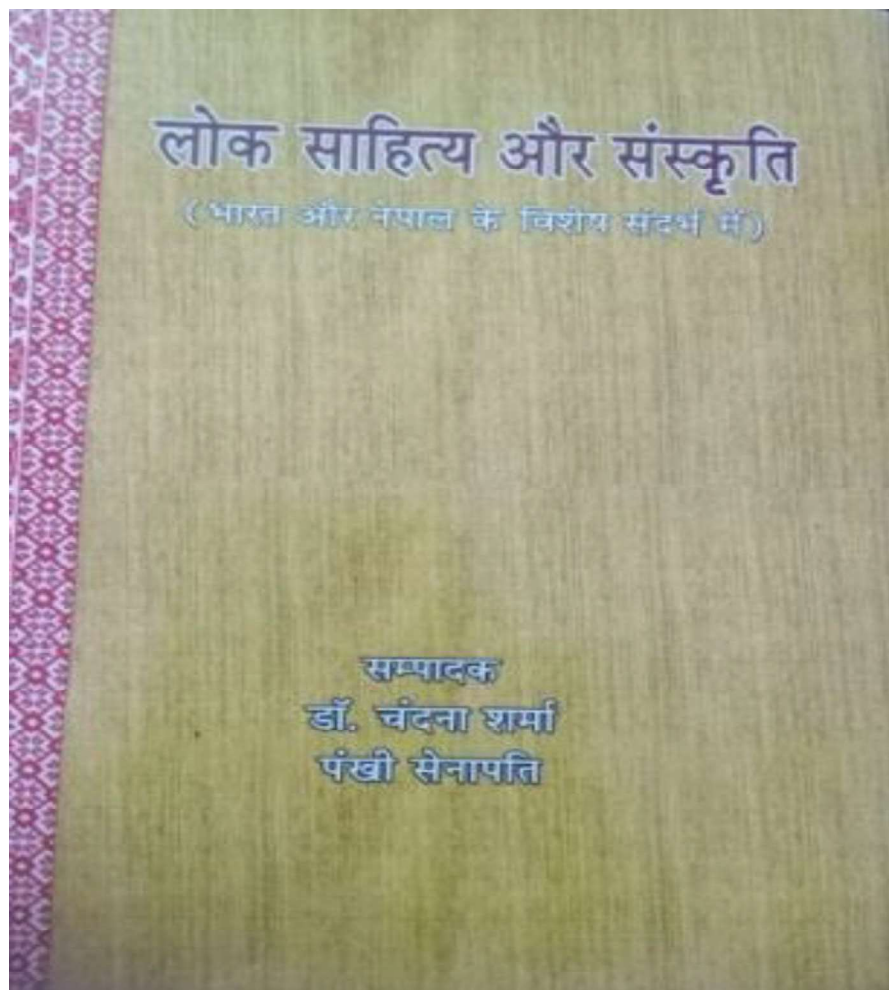
1. छायावाद : विद्वान् जीवन-साथ का काव्य	पदवी अधिकाय प्रणाल	3
2. छायावाद के भी चर्चे	डॉ. जयधर प्रधान	5
3. छायावाद का सर्वोन्मेष (मुकुटधर पाण्डेय की स्मृति में)	गणेश चन्द्र बंसल	16
4. छायावाद के प्रयोग : मुकुटधर पाण्डेय	डॉ. केशरीलाल वर्मा	22
5. छायावाद : प्रवर्तन के पथ पर	डॉ. जी.डी. शर्मा	24
6. छायावाद और राष्ट्रीय काव्य-धारा	डॉ. विनय कुमार शर्मा	27
7. छायावाद के मुख्य सारथी; मुकुटधर पाण्डेय	डॉ. सुधीर कुमार शुक्ल	31
8. छायावादी कवियों की सीढ़ी-दृष्टि	डॉ. विनय कुमार शर्मा	36
9. विदेशों में छायावादी काव्य पर सीध	डॉ. रामप्रसाद शर्मा	45
10. छायावादी काव्य में आधुनिक विषय-विधान	डॉ. सीमा श्रीवास्तव	50
11. "कल सुखे ये विद्वान् विदेशी"	डॉ. विनय पाण्डेय	54
12. छायावाद के जनक : मुकुटधर पाण्डेय	डॉ. विद्याजी लाल शर्मा	57
13. मुकुटधर पाण्डेय एवं उनकी छायावाद	डॉ. रमेश शरण पाण्डेय	61
14. लोक के आन्दोलन में 'विहवसोध' का काव्य	डॉ. विश्वजीत शर्मा	64
15. छायावाद की जीवन शैली	डॉ. धीरेंद्र शर्मा	68
16. छायावाद के अग्रदूत; मुकुटधर पाण्डेय	डॉ. रामप्रसाद शर्मा	75
17. छायावाद की मुकुटधर पाण्डेय का जन्मदिन	विश्वकुमार पाण्डेय	81

[CONT]

47. आर्यावर्ती काव्य में राष्ट्रीय-चेतना	विद्या मिश्र	239
48. राष्ट्रप्रेम के कवि : सुमित्रसेन पंत	डॉ. रवी अग्रवाल	244
49. निराला की सामाजिक-सांस्कृतिक दृष्टि	डॉ. प्रफुल्ल कुमारी	248
50. आर्यावर्ती कवियों की सौंदर्य-चेतना	डॉ. चंद्रकुमार शिव कुमारी	252
51. आर्यावर्ती काव्य में नारी-सौंदर्य	प्रतिभा कुमारी	257
52. आर्यावर्ती काव्य में सौंदर्य-चेतना	डॉ. सोहन जी शर्मा जगुल	263
53. आर्यावर्ती सौंदर्य-चेतना	सौम्यी ट्रेफाल्ट चारील	268
54. आर्यावर्त की पाठ-रैली और गीतमयकाव्य	अभिनेक मिश्र	274
55. निराला के काव्य में प्रेम एवं युवा	डॉ. अरुण शर्मा	286
56. आर्यावर्त के सौंदर्य कवि : जयशंकर प्रसाद	डॉ. सुनील शर्मा	290
57. आर्यावर्त की विचारा-राज्य	डॉ. लक्ष्मी कुमारी जगुल	293
58. आर्यावर्ती काव्य में नारी-चेतना	पद्मी सेनगुप्ता	298
59. आर्यावर्ती काव्य में सौंदर्यसुन्दरी	डॉ. सोहन चरण शर्मा	302
60. जयशंकर प्रसाद का साहित्यिक प्रेम के संदर्भ में	डॉ. विद्यामि मिश्र श्रीवास्तव	309
61. आर्यावर्त में सांस्कृतिक एवं सौंदर्य-चेतना	डॉ. जगुल शर्मा	320
62. आर्यावर्त का राष्ट्रीय-चेतना	डॉ. अर्पिता मिश्रा	325
63. आर्यावर्ती कवियों का परिचय	डॉ. चंदनी शर्मा	330
64. आर्यावर्त और कवि-युवा 'निराला'	डॉ. कल्पना शर्मा	333
65. आर्यावर्त के प्रसिद्ध कवियों की रचनाएं	बी. के. शर्मा	338
66. आर्यावर्ती काव्य में नारी-अभिव्यक्ति	डॉ. सुशेखा कुमारी शर्मा	345
67. हिन्दी साहित्य में आर्यावर्त	डॉ. के. के. मिश्रा	350
68. आर्यावर्ती काव्य, निराला एवं साहित्य	डॉ. ज्योति किरण	352
69. आर्यावर्त और भारतीय साहित्य	अमित, एम	356
70. आर्यावर्ती काव्य में राष्ट्रीय-चेतना	डॉ. सिद्धेश्वर प्रसाद मिश्र शर्मा	360
71. आर्यावर्ती काव्य में प्रेम और सौंदर्य	विद्यामि एम	363
72. आर्यावर्ती काव्य में नैतिक-राज्य	डॉ. जयदेव प्रसाद शर्मा	370
73. राष्ट्रीय-सांस्कृतिक काव्य-चेतना और आर्यावर्त	डॉ. सुनील शर्मा	376
74. भारतीय सौंदर्य-चेतना और आर्यावर्त	दीपक कुमारी	379
75. सुमित्रसेन पंत और जगुल	डॉ. नील शर्मा	381
76. आर्यावर्त और पुनर्जागरण	डॉ. रीतिका मिश्र	384
77. आर्यावर्त: सांस्कृतिक युवा की स्वरचना	सलिल कुमारी	388
78. आर्यावर्ती की दृष्टि में 'आर्यावर्त'	कुमारिका	391
79. आर्यावर्ती काव्य में राष्ट्रीय-चेतना के प्रतिबिम्ब	सौंदर्य मिश्र शर्मा 'सत्य'	395
80. आर्यावर्त के प्रमुख कवि : एक विश्लेषणात्मक	सौम्यी शिव कुमारी	399
81. निराला के काव्य में प्रकृति के प्रतिबिम्ब रूप	डॉ. कुमारी शर्मा	402
82. आर्यावर्त का चरित्र	डॉ. रीतिका कुमारी शर्मा	409

Name of the author- Pankhi Senapati

Cover page-

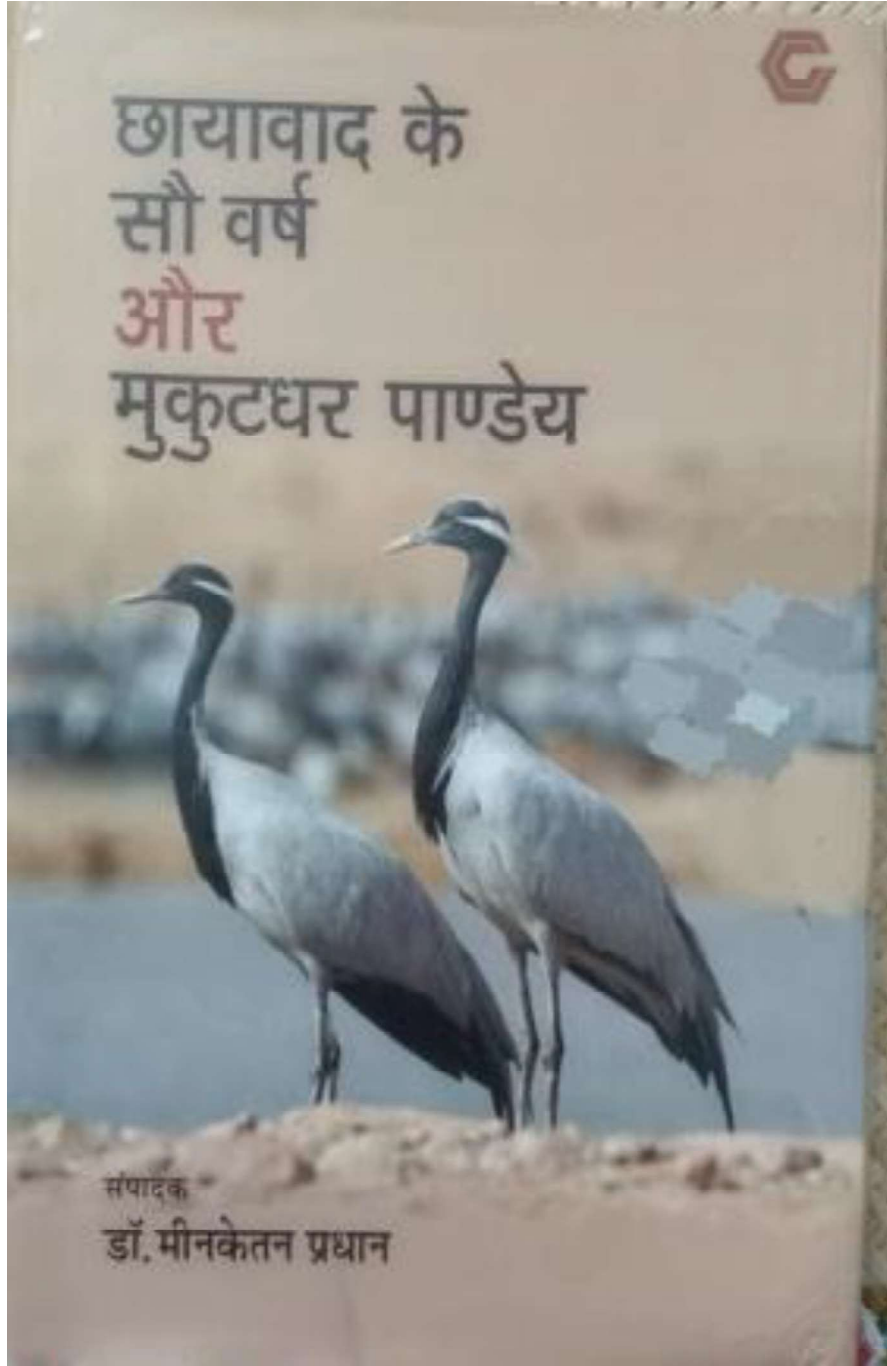


Content page-

अनुक्रमणिका	
1. अक्षय का पाठ 'लोकिका पढ़ने' : _____ ✎ डॉ. संतोष शर्मा _____ 7	एक सांस्कृतिक विप्लव
2. लोक साहित्य के संदर्भ में हिन्दी के _____ ✎ डॉ. कुमुद कुंज शरणकर _____ 16	सांग्रहालय और अक्षय का सांग्रहाली लोकगीत : एक अवलोकन
3. हिमाचल प्रदेश के लोकनृत्य _____ ✎ डॉ. चन्दन शर्मा _____ 20	
4. लोकगीतों में अन्तर्द्विहित विद्या समाज _____ ✎ डॉ. संतोष शर्मा _____ 39	
5. लोक साहित्य और संस्कृति : _____ ✎ डॉ. शर्मिष्ठा दीक्षित _____ 45	एक अवलोकन
6. लोकसंस्कृति में अनुवाद की भूमिका _____ ✎ श्रीमती सुदि पत्रिकारक _____ 53	
7. भारत के स्वतंत्रता संग्राम में अक्षय के _____ ✎ डॉ. काशी देवी _____ 58	ज्योतिप्रसाद आशास्त्राज्य का योगदान
8. राजस्थानी लोक सभ्यता: हवाई विवरण _____ ✎ डॉ. चन्दन शर्मा _____ 73	
9. अक्षय में प्रचलित चरन काल के गीत _____ ✎ डॉ. दिव्य शर्मा _____ 80	
10. विभिन्न लोकसंस्कृति के विविध स्वरूप _____ ✎ डॉ. चन्दन शर्मा _____ 86	
11. अक्षय जनजाति के लोकगीतों में _____ ✎ डॉ. जयशंकर शर्मा _____ 96	प्रचलित लोकगीत
12. स्त्रीवादी दृष्टिकोण से मैथिली लोकगीत _____ ✎ श्रीमती चिंता तिवारी _____ 102	
13. लोक-संस्कृति : एक अवलोकन _____ ✎ डॉ. जयशंकर शर्मा _____ 113	
14. भोजपुरी लोकगीतों का _____ ✎ श्रीमती चिंता तिवारी _____ 120	समाजशास्त्रीय अध्ययन

Name of the author- Dr Chandana Sarma

Cover page-



Content page-

अनुक्रम

[i]

भाग : 1

छायावाद : विषय-प्रवर्तन

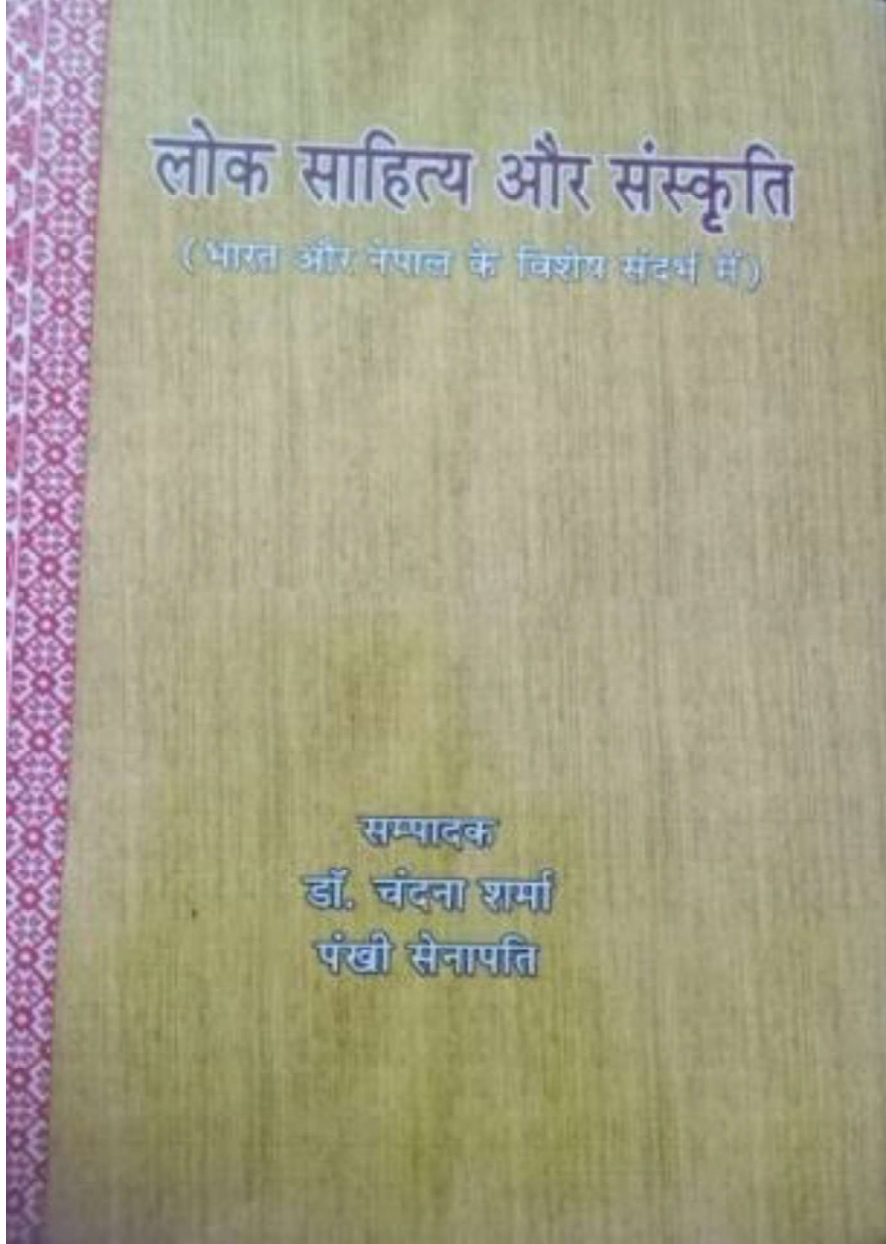
1. छायावाद : विरल जीवन-साथ का काव्य	पद्मजी श्रीनिवास उद्गुण	3
2. छायावाद के भी चर्च	डॉ. जगधर प्रधान	5
3. छायावाद का सर्वोच्च (मुकुटभार पाण्डेय की स्मृति में)	गणेश चन्द्र शंकर	16
4. छायावाद के प्रस्तावक : मुकुटभार पाण्डेय	डॉ. केशरीलाल वर्मा	22
5. छायावाद : प्रस्तावक के पथ पर	डॉ. जी.डी. शर्मा	24
6. छायावाद और राष्ट्रीय काव्य-धारा	डॉ. विश्व कुमार शर्मा	27
7. छायावाद के मुख्य स्रोत; मुकुटभार पाण्डेय	डॉ. सुधाशु कुमार शुक्ल	31
8. छायावादी कवियों की शीर्ष-दृष्टि	डॉ. विवेक कुमार मिश्र	36
9. विदेशों में छायावादी काव्य पर शोध	डॉ. रामशरण शर्मा	45
10. छायावादी काव्य में अष्टमि विषय-विधान	डॉ. सीमा श्रीनिवास	50
11. "बस मुझे दो विरल विदेशी."	डॉ. दिनेश पाण्डेय	54
12. छायावाद के जनक : मुकुटभार पाण्डेय	डॉ. विद्याजी लाल शर्मा	57
13. मुकुटभार पाण्डेय एवं उनका छायावाद	डॉ. हरिहर शरण पाण्डेय	61
14. लोक के आवाज में 'विरलबोध' का काव्य	डॉ. विशालजी का	64
15. छायावाद की जीवन शैली	डॉ. शीरीषी शर्मा	68
16. छायावाद के अन्तर्गत; मुकुटभार पाण्डेय	डॉ. लक्ष्मणलाल शर्मा	73
17. छायावाद की मुकुटभार पाण्डेय का अन्वयन	विश्वकुमार पाण्डेय	81

[cont]

47. आर्यावर्ती काव्य में राष्ट्रीय-चेतना	विद्या मिश्र	239
48. संस्कृत के कवि : सुमित्रसेन चर	डॉ. रवी अग्रवाल	244
49. निराला की सामाजिक-सांस्कृतिक दृष्टि	डॉ. प्रमोद कुमारी	248
50. आर्यावर्ती कवियों की सौंदर्य-चेतना	डॉ. चंद्रकुमार शिव कुमारी	252
51. आर्यावर्ती काव्य में नारी-सौंदर्य	प्रतिभा कुमारी	257
52. आर्यावर्ती काव्य में सौंदर्य-चेतना	डॉ. सोहन जी राय जगुल	263
53. आर्यावर्ती सौंदर्य-चेतना	सौम्यी ट्रेफाल्ट चारील	268
54. आर्यावर्ती काव्य-शैली और मौखिकता	अभिनेक मिश्र	274
55. निराला के काव्य में प्रेम एवं युवा	डॉ. अरुण शर्मा	286
56. आर्यावर्ती के शीर्ष कवि : जयशंकर प्रसाद	डॉ. सुनील शर्मा	290
57. आर्यावर्ती काव्य का विकास-समय	डॉ. लक्ष्मी कुमारी जगुल	293
58. आर्यावर्ती काव्य में नारी-चेतना	सखी सेठपाणि	298
59. आर्यावर्ती काव्य में सौंदर्यसुन्दरी	डॉ. सोहन चरण शर्मा	302
60. जयशंकर प्रसाद का साहित्यिक प्रेम के संदर्भ में	डॉ. विद्या मिश्र शौहन	309
61. आर्यावर्ती में सांस्कृतिक एवं सौंदर्य-चेतना	डॉ. जगुल शर्मा	320
62. आर्यावर्ती का राष्ट्रीय-चेतना	डॉ. अरुण मिश्र/विद्या	325
63. आर्यावर्ती कवियों का जीवन	डॉ. चोरी शर्मा	330
64. आर्यावर्ती और कवि-युवा 'निराला'	सौम्यी मिश्र शर्मा	333
65. आर्यावर्ती के प्रसिद्ध कवियों की रचनाएं	डॉ. अरुण शर्मा	338
66. आर्यावर्ती काव्य में नारी जीवन	डॉ. सुश्री कुमारी शर्मा	345
67. हिन्दी साहित्य में आर्यावर्ती	डॉ. के. ए. मिश्री	350
68. आर्यावर्ती काव्य, निराला एवं साहित्य	डॉ. अरुण शर्मा	352
69. आर्यावर्ती और भारतीय साहित्य	अमित, एम	356
70. आर्यावर्ती काव्य में राष्ट्रीय-चेतना	डॉ. सिद्धेश्वर प्रसाद मिश्र शर्मा	360
71. आर्यावर्ती काव्य में प्रेम और सौंदर्य	विद्या मिश्र	363
72. आर्यावर्ती काव्य में नारी-चेतना	डॉ. जयशंकर प्रसाद शर्मा	370
73. राष्ट्रीय-सांस्कृतिक काव्य-चेतना और आर्यावर्ती	डॉ. सुनील शर्मा	376
74. भारतीय जीवन-दर्शन और आर्यावर्ती	दीपक कुमारी	379
75. सुमित्रसेन चर और जगुल	डॉ. नील शर्मा	381
76. आर्यावर्ती और पुनर्जागरण	डॉ. रीतिका मिश्र	384
77. आर्यावर्ती: सांस्कृतिक युवा की स्वरचना	सुनील कुमारी	388
78. आर्यावर्ती की दृष्टि में 'आर्यावर्ती'	कुमारी	391
79. आर्यावर्ती काव्य में राष्ट्रीय-चेतना के प्रतिबिम्ब	सौम्यी मिश्र शर्मा 'सुनील'	395
80. आर्यावर्ती के प्रमुख कवि : एक सांस्कृतिक-चेतना	सौम्यी शर्मा सुनील	399
81. निराला के काव्य में प्रकृति के प्रतिबिम्ब रूप	डॉ. कुमारी शर्मा	402
82. आर्यावर्ती का चरित्र	डॉ. रीतिका कुमारी शर्मा	409

Name of the author- Monalisha Chakrabarty

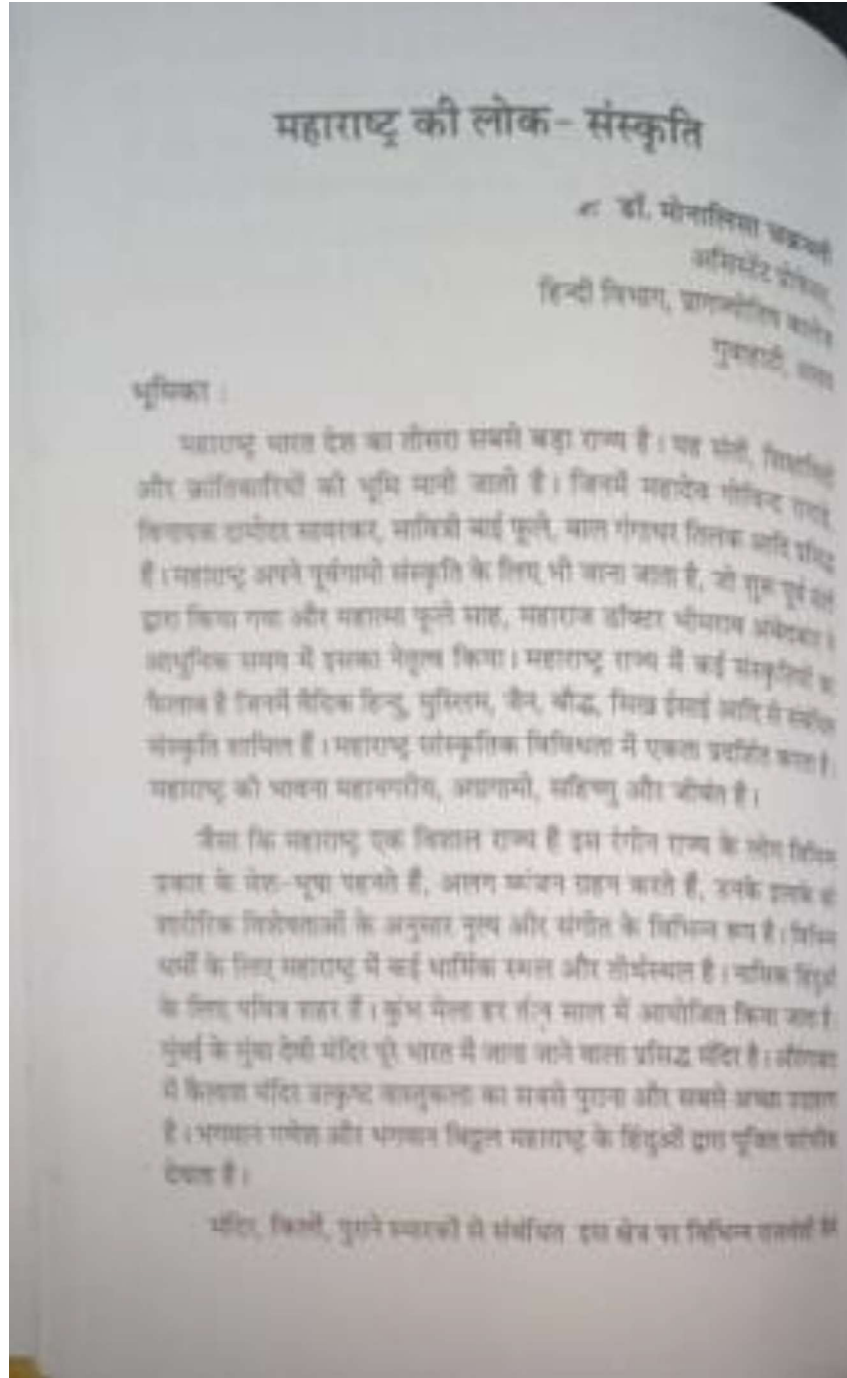
Cover page-



Content page-

<u>अनुक्रमणिका</u>	
1. अक्षय का पात्र 'होलिका दहन' : _____ ✎ डॉ. संतोष वर्मा _____ 7 एक सांस्कृतिक विश्लेषण	
2. लोक साहित्य के संदर्भ में हिन्दी के _____ ✎ डॉ. कुसुम कुंज मालविका _____ 14 साहित्यिक और असाहित्यिक के सातवाही लोकगीत : एक अवलोकन	
3. हिमाचल प्रदेश के लोकगीत _____ ✎ डॉ. चन्दन शर्मा _____ 20	
4. लोकगीतों में अन्तर्निहित शिक्षा संघर्ष _____ ✎ श्री देवराज _____ 39	
5. लोक साहित्य और संस्कृति : _____ ✎ डॉ. श्वेता दीपि _____ 45 एक अवलोकन	
6. लोकसंस्कृति में अनुवाद की भूमिका _____ ✎ श्रीमती सुनि मणिमकर _____ 53	
7. भारत के स्वतंत्रता संघर्ष में असम के _____ ✎ डॉ. काशी देवी _____ 58 ज्योतिप्रसाद आगरवाला का योगदान	
8. राजस्थानी लोक साधना: हल्दी विरासत _____ ✎ डॉ. चन्दन जोशी _____ 73	
9. असम में प्रचलित बरनन काल के गीत _____ ✎ डॉ. दिवु बा _____ 80	
10. विधवा लोकसंस्कृति के विविध स्वरूप _____ ✎ डॉ. मधन कुमारी झा _____ 86	
11. सराण जवजति के लोकोत्सव में _____ ✎ डॉ. जयपुत मानन _____ 96 प्रचलित लोकगीत	
12. खीवादी दृष्टिकोण से वैधिली लोकगीत _____ ✎ श्रीमती मित्र तिवारी _____ 102	
13. लोक-संस्कृति : एक अवधारणा _____ ✎ डॉ. जकिर हुसैन _____ 113	
14. भोजपुरी लोकगीतों का _____ ✎ सुनील दुबे _____ 120 समाजशास्त्रीय अध्ययन	

First page of the publication-



Name of the author- Dr Gargee Sharmah

Cover page-



Content page-

First page of the publication-

Iconography of Some Sculptures of Early Assam: Evolutions and Local Influences

Gargee Bhattacharya
Department of History, Pogyorish College
Guwahati 781 009
Assam
Email: gargeebhattacharya@gmail.com

Introduction

The worship of deities in their iconographic forms in Assam has been prevalent from early period. Siva and Devi are worshipped in the form of legs and feet respectively. These forms are found extensively in Assam. The stone sculpture of De-Parvati with icon of Ganga and Yamuna may be assigned to 5th -6th century CE where the influence of Gupta classical art is clearly visible.

Assam's neighboring region, Bengal, witnessed the regional variations in art from the rule of the Palas dynasty. The Palas were great patrons of art and under their patronage a new local school of expression evolved developing its own characteristics. This new school continued for almost four centuries till the coming of the Turko-Afghans. This group of art came to be known as the Eastern Indian School of Medieval Art (EISMA) (Sircar, 1992: 48). The Palas ruled Bengal and Bihar for the period from 8th to 12th centuries CE, and occasionally extended westwards over Assam. Until 8th century CE, Assam witnessed a sculptural style which followed the classical tradition but was greatly influenced by local idiom. Influence of local tribal style on some sculptures of Assam is clearly visible. The Eastern Indian School of Medieval Art (EISMA) penetrated into the early medieval Assam. This was proved by the sculptures of Sri Surya Pahar and Na-Nah that belonged to 8th century CE.

Rationale

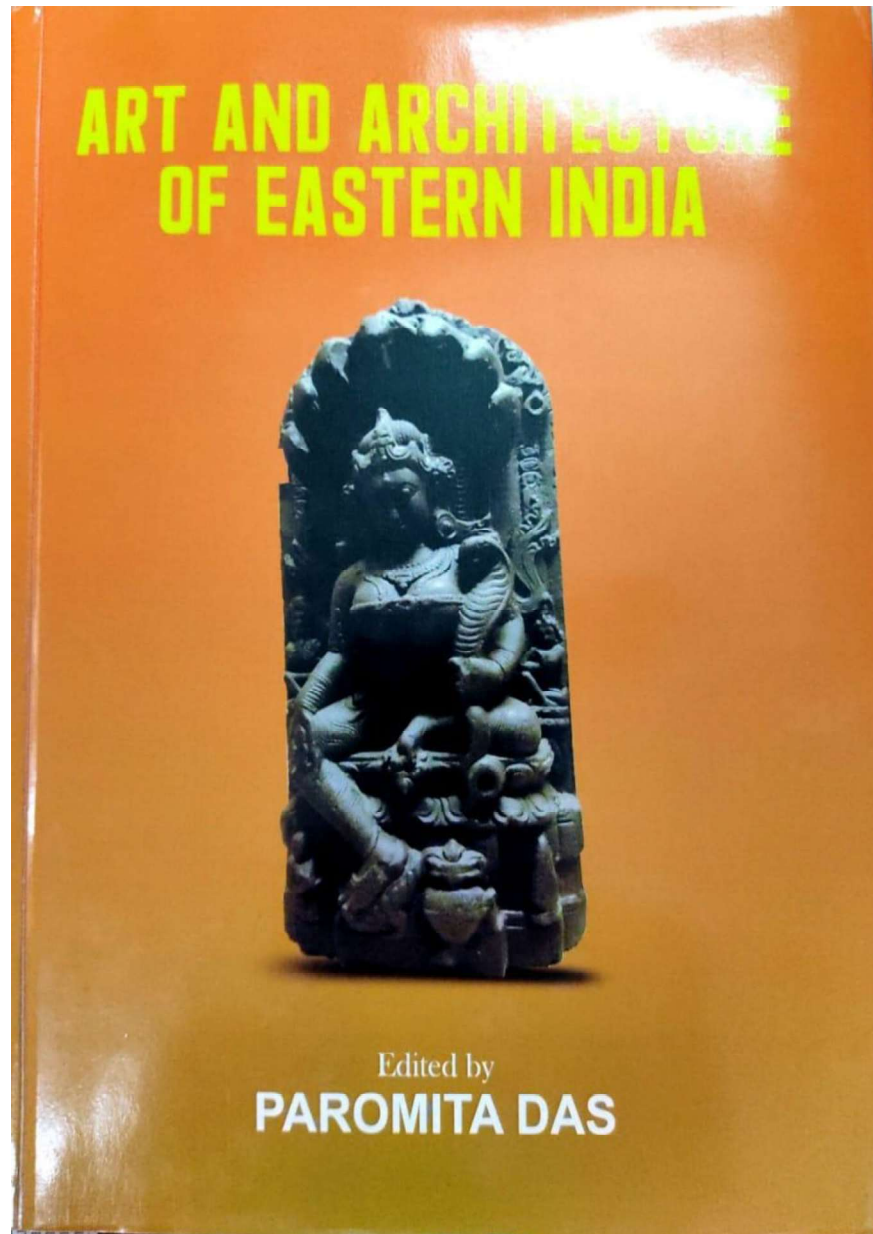
Study of art history of Assam is very important for the reconstruction of the past of this region. Due to the lack of literary material, one has to depend on the archaeological sources for the history of early Assam. Iconography is one of the important parts of archaeological sources. This paper looks into the evolution and local influence of the iconography of some sculptures of early Assam.

Methodology

The study is largely based on iconographic methodology. In order to get an in-depth analysis, a multidisciplinary approach is taken. Proper methodological tools from history and archaeology are selectively used for the study. A field survey method was also adopted.

Name of the author- Dr Gargee Sharmah

Cover page-



Content Page-

Contents

<i>Preface</i>	<i>vii</i>
1. Reconstructing Architectural History of India through Architectural Motifs <i>Sudipa Ray Bandyopadhyay</i>	1
2. Temple Door as Ritual Space: Illustrations from Ancient Assam <i>Rena Laisram</i>	16
3. Some Door Panels of Sattrā Hāti Bohā: An Analysis <i>Biman Hazarika</i>	26
4. Tamreshwar in Myth and Archaeology: A Historical Survey <i>Kamal Nayan Patowary</i>	36
5. Stone Sculptures Preserved in the District Museum, Haflong <i>Linajyoti Medhi</i>	46
6. A Study of the Footprint Impression at Bhairavpada Devalaya <i>Sweta Mahanta</i>	55
7. Structural Remains of Goalpara, Assam <i>Sofiul Islam Khan</i>	61
8. Iconography and Identification of Sun Sculptures: Two Cases from Assam <i>Banasree Phukan</i>	93
9. Idea behind the Image: War Goddesses in Early Assam and Bengal <i>Gargee Sharmah</i>	100
10. Manasā Legends and its Representation in the Art of Assam <i>Gargi Raha</i>	107
11. Temple Architecture of the Terracotta Temples of Bishnupur, West Bengal <i>Parangam Sarma Basistha</i>	113
12. Rock-Cut Sculptures of Kapili-Jamuna Valley, Assam <i>Mrigakhee Saikia</i>	124

9

Idea behind the Image: War Goddesses in Early Assam and Bengal

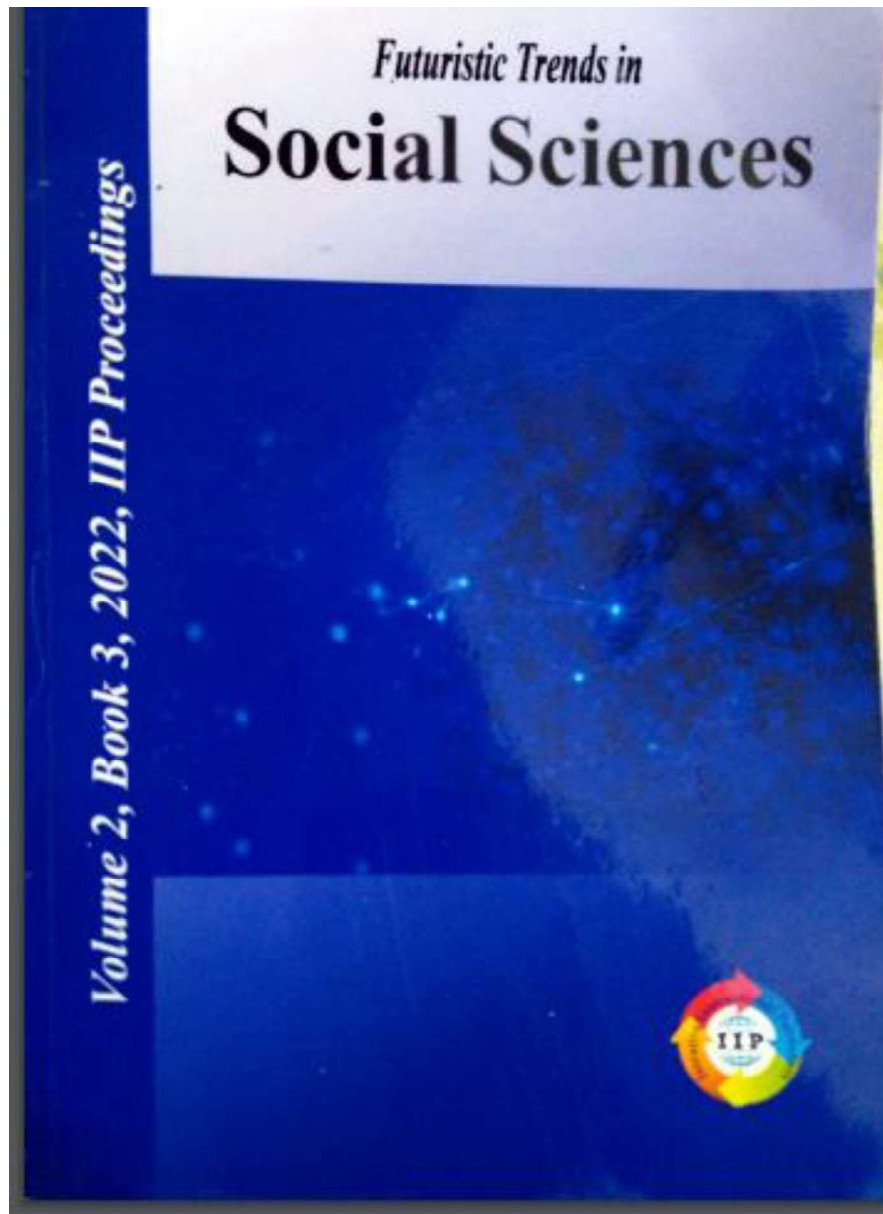
Gargee Sharmah

Iconography deals with the idea behind the image. Iconography is helpful not only for the purpose of identifying images, but also for that of dating the works of art. The study of iconography is blended with the study of religion, because the word Icon (Greek *eikon*) means a devotional image, a figure representing a deity or a saint, in painting, mosaic, sculpture terracotta etc. which is specially meant for worship or which is in some way or other associated with rituals¹. So the proper understanding of *iconography* enables one to be quite conversant with one of the most important aspects of the religious life of different races of mankind. This paper focuses on the iconography of the war goddess of Assam and Bengal up to 13th century CE. R.C. Majumdar states that up to the seventh century CE Indian art displayed an all- Indian character. Regional tendencies both in political and cultural life grew and found expression in eighth century C.E². In Bengal, under the Pala rule new local idioms of expression evolved, developing its own characteristic which is generally known as *Eastern Indian School of Medieval Art (EISMA)*. The Pala ruler occasionally exercised suzerainty over Assam and Pala School of Bengal also influenced art of Assam.

In popular Indian perceptions of divinity, the dominant image is of a male god, accompanied by his consort, who is his benevolent Sakti³. However, war-goddess Mahishamardini is portrayed independently and her iconography is very popular in both Assam and Bengal. Sarvani image of Deulbari proves that war goddess was popular in Bengal from the seventh century CE. Most of the Mahishamardini image of Assam belonged to ninth to eleventh century CE. In both the regions ten-handed Mahishamardini, known as Katyayani, is popular. Sakta Upa-Puranas written in Bengal also gave prominence to the

Name of the author- Dr Parmita Choudhury

Cover page-



Title of the Book: Futuristic Trends in Social Sciences
Edition: Volume 2, Book 3, 2022, IIP Proceedings

Content page-

CONTENTS	
PART 1	
Chapter 1 ROLE OF INFORMATION TECHNOLOGY AND SOCIAL MEDIA PLATFORMS IN E-LEARNING.....	Page No. 1-7
Chapter 2 THE EFFECT OF PERSONALITY TRAITS (BIG- 5 FACTORS) ON THE USAGE OF SOCIAL MEDIA AMONG THE COLLEGE STUDENTS OF NORTH BENGAL.....	8-18
Chapter 3 ACADEMIC ACHIEVEMENT AND INTELLIGENCE: INVESTIGATION INTO GENDER AND CATEGORY DIFFERENCES.....	19-28
Chapter 4 A STUDY ON SUBSTANCE ABUSE AMONG THE YOUTH IN UMPHYRNAI VILLAGE, EAST KHASI HILLS DISTRICT, MEGHALAYA.....	29-51
Chapter 5 PARENTAL INFLUENCE ON THE ACADEMIC BEHAVIOUR OF CHILDREN IN NAGALAND	52-61
Chapter 6 EVOLUTION OF MEDIA EDUCATION IN INDIA AND THE POSSIBLE EFFECT OF NATIONAL EDUCATION POLICY: AN ANALYSIS AND STUDENTS' PERSPECTIVE.....	62-68
Chapter 7 SOCIAL MEDIA AND COMMUNICATION DURING COVID- 19.....	69-76
Chapter 8 IMPACT OF MGNREGA ON EMPLOYMENT AND COMMUNITY ASSETS CREATION: A COMPARATIVE CASE STUDY BETWEEN MOKOKCHUNG AND MON DISTRICTS OF NAGALAND.....	77-92
PART 2	
Chapter 1 INTUITION IN CLASSICAL INDIAN THOUGHT.....	93-98
Chapter 2 RAMAKRISHNA'S CONCEPT OF BHAKTI.....	99-107

First page of the publication-

Futuristic Trends in Social Sciences
ISBN: 978-93-95632-59-1
IIP Proceedings, Volume 2, Book 3, Part 2, Chapter 2
RAMAKRISHNA'S CONCEPT OF BHAKTI

RAMAKRISHNA'S CONCEPT OF BHAKTI

Abstract

Ramakrishna who is considered as the God-man of modern India, is an eminent thinker and social reformer of 19th century. He is also recognised as an embodiment of Vedānta or Vedamurti. His sole aim is to awaken the spirituality of man for which he tries to restore the agnostic and atheistic mind set of people into spirituality. This study particularly deals with his emphasis upon Bhakti. In this paper I will try to focus on certain queries like why Ramakrishna has put forwarded so much of importance on Bhakti for this era of materialism or Kaliyuga? Moreover, the nature of Bhakti as it is understood by Ramakrishna is tried to be put forth as well as for practicing Bhakti is there any pre-requisite condition upheld by Ramakrishna is also a matter of inquiry in this paper.

Keywords- Bhakti, Bhakta, Kaliyuga, Mind, Premā, Jñāna, Karma

Author

Dr. Parmita Chowdhury
Dept. of Philosophy
Gauhati University
Guwahati, India

1. INTRODUCTION

Ramakrishna is a Vedantist who believes in an Ultimate Reality who possesses both the aspects of transcendental and immanence. He even accepts that the Ultimate Reality/Brahman is with and without names and forms. He has many faces, even *māyā* is one of the faces of Brahman in Ramakrishna's philosophy. Thus for him, truth or reality is same in both absolute and relative level and as such just to give a practical significance of the realization of reality particularly in the era of materialism which is known as Iron age or Kaliyuga, he tries to focus on the relative aspect of the Reality which is prevalent in the form of God. Moreover, he has maintained that everything whatever happens only because of the will of God and that is why man's sole aim is to get the grace of God and thus he is found to be stressing on the path of Bhakti which is for him the best suitable path for the people of this period of materialism to realize the Ultimate Reality. Here the study concentrates upon the nature of Bhakti as emphasized by Ramakrishna which is explained in the following.

1. Nature of bhakti : In Ramakrishna's philosophy Bhakti has been given the utmost importance. Ramakrishna has emphasized Bhakti as the most essential for life as it is the ultimate end of life to do 'Bhakti' or to love God. But the most important thing is that love is to be selfless or only with great desire to have the vision of God. As Ramakrishna remarks, "The bliss of worship and communion with God is the true wine, the wine of ecstatic love. The goal of human life is to love God."¹ In bhakti, God is loved like mother, brother, sister, friend as well as a companion and also as a child. Even the devotee loves to think himself as servant and the God as Master. This kind of love is possible towards God because in Bhakti, God in the human form is worshipped and Ramakrishna asserts that it is because of this love that God incarnates Himself in the form of man, as God is very much fond of this kind of ecstatic love of His devotees. Ramakrishna maintains that it is only for this love of the devotees that God incarnates Himself in this world to play His sport or *līlā*, which is nothing but the relative aspect of the reality. I-consciousness of the devotee remains while practicing bhakti, although when the love gets intense more and more, the devotee becomes one with God.

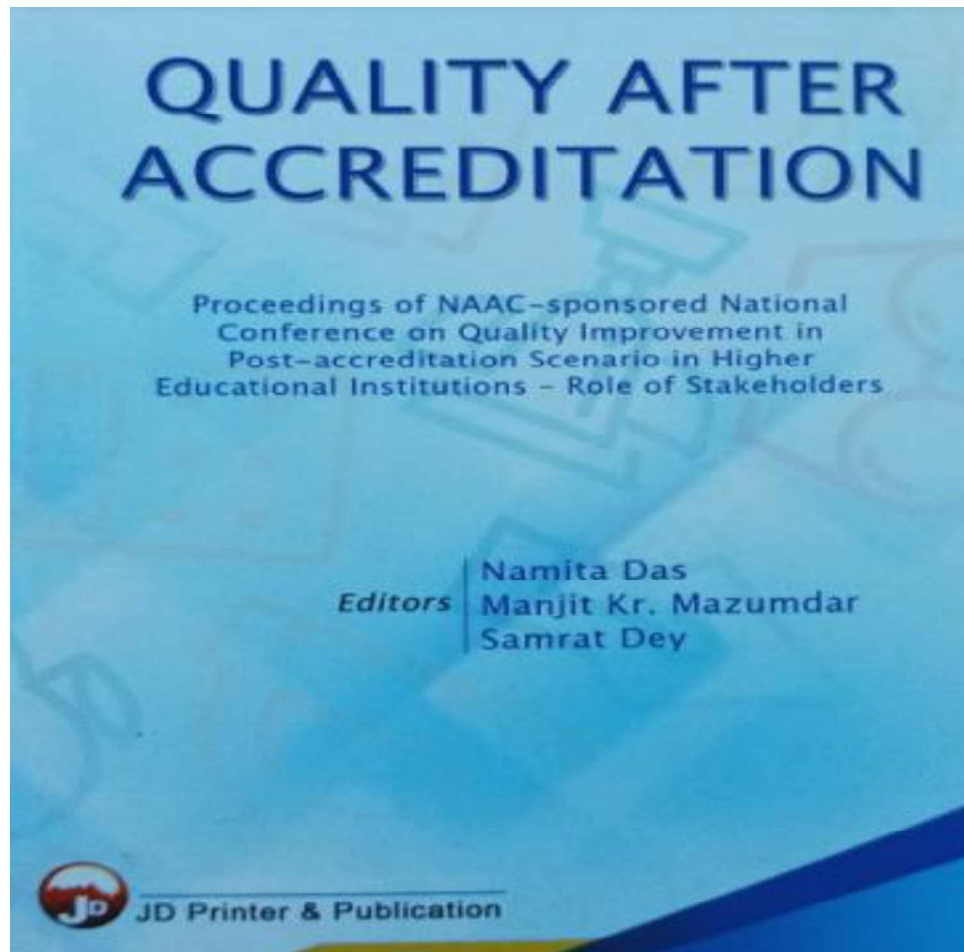
However, Bhakti is not the end in itself as it is the means to attain God. The term Bhakti has been emphasised as the most effective path for this age of materialism to realize God, though Bhakti as the path to attain Divinity is there from the Upanishadic time period, as it is maintained in the Śvetāśvatara Upanisad, "He who has supreme devotion (bhakti) towards God, and towards the teacher, to him verily, all these things declared (thus far) will reveal themselves.

According to Ramakrishna, Bhakti is the single pointed devotion. It is *pranīta* or selfless love for God. Ramakrishna admits that it is through bhakti one gets naturally renunciation and discrimination which are requisites for the vision of God and as such Bhakti is considered by Ramakrishna as the core of all spiritual discipline because when it is asked how renunciation is possible through bhakti, Ramakrishna answered that out of love when man will pray, God gives them the will power to renounce what is unreal. Moreover, Bhakti in the initial stage involves prayer and singing the praises of God because this will help to purify the mind of the devotee or bhakta.

According to Ramakrishna, Bhakti or love of God is the ultimate because it gives you everything else. In this regard it may be said that Bhakti and *Jñāna* are blended in his

Name of the author- Saumar Rajkhowa

Cover page-



CONTENTS...

- ❖ POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES OF TOP
FIRST-TIME ACCREDITED AFFILIATED
COLLEGES IN INDIA 7
 ➤ **Samrat Dey, Pranab Jyoti Bhuyan,
 Ranjan Kalita & Saumar Rajkhowa**
- ❖ ROLE OF STAKEHOLDERS IN HIGHER
EDUCATION INSTITUTIONS 12
 ➤ **Rashmirekha Hazarika**
- ❖ ROLE OF STAKEHOLDERS IN QUALITY
IMPROVEMENT IN HIGHER EDUCATIONAL
INSTITUTIONS AFTER RECEIVING
ACCREDITATION 23
 ➤ **Dhriti Borah**
- ❖ QUALITY IMPROVEMENT IN POST-
ACCREDITATION SCENARIO IN HIGHER
EDUCATIONAL INSTITUTIONS - ROLE OF
STAKEHOLDERS 32
 ➤ **Pranita Goswami & Nandita Borah**
- ❖ ROLE OF STAKEHOLDERS IN CURRICULUM
IMPLIMENTATION 38
 ➤ **Parmita Chowdhury & Kalyani Devi**

CHAPTER - 1

**POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES
OF TOP FIRST-TIME ACCREDITED
AFFILIATED COLLEGES IN INDIA**

**Samrat Dey*, Pranab Jyoti Bhuyan,
Ranjan Kalita & Saumar Rajkhowa**

*Physics Department, Praggyotish College,
Guwahati - 781009, India*

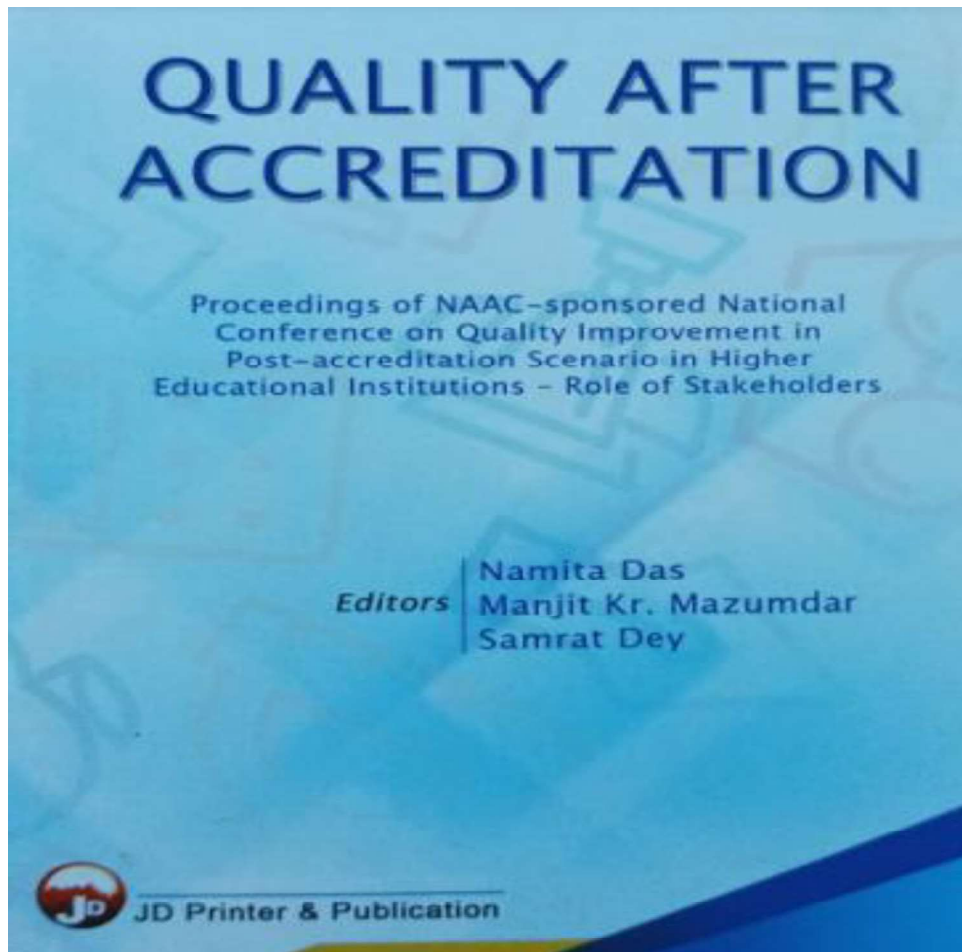
*For correspondence. (samratdgr8@gmail.com)

ABSTRACT

Top 10 (as per the grades given by NAAC) affiliated colleges in India accredited for the first time in last 5 five years, as available in the official NAAC website, are chosen for our study. Out of these, three of the colleges are affiliated in the current year (2022) and as such, are not having data for subsequent years and thus, are not studied. We find that 4 out of remaining 7 colleges have lesser number of publications in the next or next to next year after the accreditation as compared to the number of publications in the year of accreditation. Here publication refers to articles in Scopus indexed journals. This shows that in majority of the cases, in the following two years after accreditation by NAAC there is a decrease in research articles published per year in at least one of those two years when compared with publications in the year of accreditation. The authors also plan to extend this study for

Name of the author- Dr Ranjan Kalita

Cover page-



CONTENTS...

- ❖ POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES OF TOP
FIRST-TIME ACCREDITED AFFILIATED
COLLEGES IN INDIA 7
 ➤ **Samrat Dey, Pranab Jyoti Bhuyan,
 Ranjan Kalita & Saumar Rajkhowa**
- ❖ ROLE OF STAKEHOLDERS IN HIGHER
EDUCATION INSTITUTIONS 12
 ➤ **Rashmirekha Hazarika**
- ❖ ROLE OF STAKEHOLDERS IN QUALITY
IMPROVEMENT IN HIGHER EDUCATIONAL
INSTITUTIONS AFTER RECEIVING
ACCREDITATION 23
 ➤ **Dhriti Borah**
- ❖ QUALITY IMPROVEMENT IN POST-
ACCREDITATION SCENARIO IN HIGHER
EDUCATIONAL INSTITUTIONS - ROLE OF
STAKEHOLDERS 32
 ➤ **Pranita Goswami & Nandita Borah**
- ❖ ROLE OF STAKEHOLDERS IN CURRICULUM
IMPLIMENTATION 38
 ➤ **Parmita Chowdhury & Kalyani Devi**

CHAPTER – 1

**POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES
OF TOP FIRST-TIME ACCREDITED
AFFILIATED COLLEGES IN INDIA**

**Samrat Dey*, Pranab Jyoti Bhuyan,
Ranjan Kalita & Saumar Rajkhowa**

*Physics Department, Praggyotish College,
Guwahati – 781009, India*

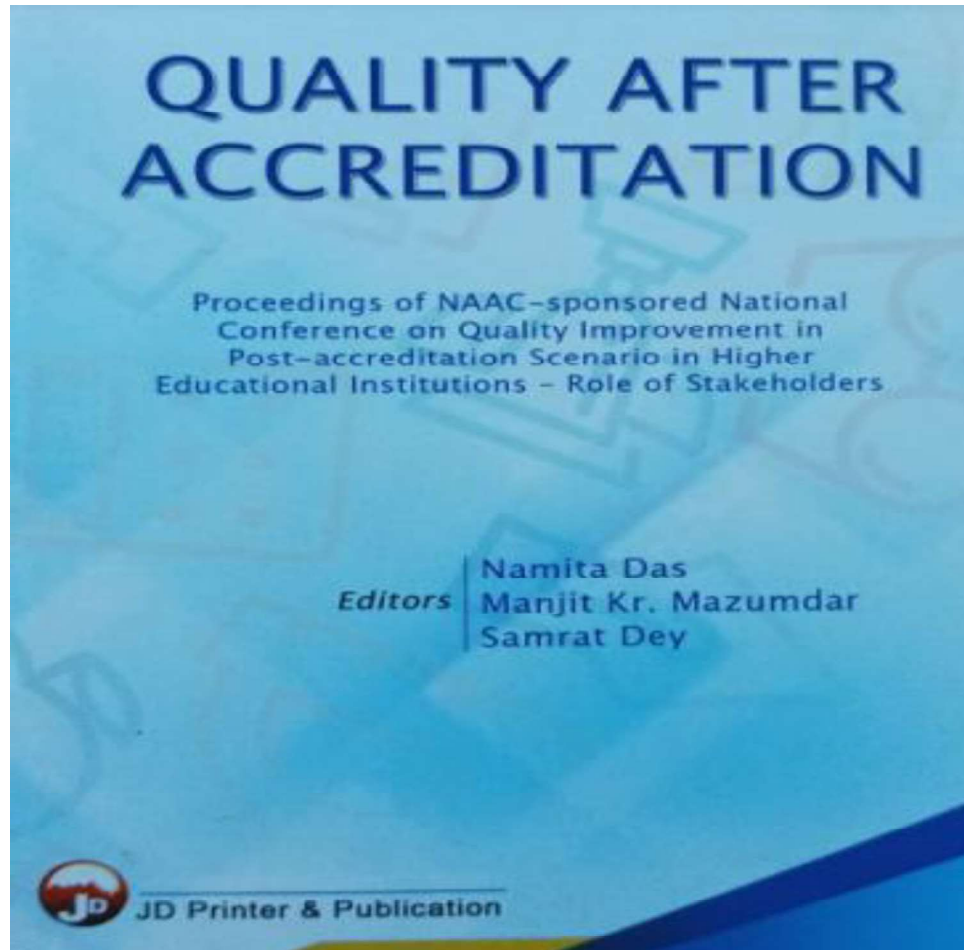
*For correspondence. (samratnigr8@gmail.com)

ABSTRACT

Top 10 (as per the grades given by NAAC) affiliated colleges in India accredited for the first time in last 5 five years, as available in the official NAAC website, are chosen for our study. Out of these, three of the colleges are affiliated in the current year (2022) and as such, are not having data for subsequent years and thus, are not studied. We find that 4 out of remaining 7 colleges have lesser number of publications in the next or next to next year after the accreditation as compared to the number of publications in the year of accreditation. Here publication refers to articles in Scopus indexed journals. This shows that in majority of the cases, in the following two years after accreditation by NAAC there is a decrease in research articles published per year in at least one of those two years when compared with publications in the year of accreditation. The authors also plan to extend this study for

Name of the author- Dr Pranab Jyoti Bhuyan

Cover page-



CONTENTS...

- ❖ POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES OF TOP
FIRST-TIME ACCREDITED AFFILIATED
COLLEGES IN INDIA 7
 ➤ **Samrat Dey, Pranab Jyoti Bhuyan,
 Ranjan Kalita & Saumar Rajkhowa**
- ❖ ROLE OF STAKEHOLDERS IN HIGHER
EDUCATION INSTITUTIONS 12
 ➤ **Rashmirekha Hazarika**
- ❖ ROLE OF STAKEHOLDERS IN QUALITY
IMPROVEMENT IN HIGHER EDUCATIONAL
INSTITUTIONS AFTER RECEIVING
ACCREDITATION 23
 ➤ **Dhriti Borah**
- ❖ QUALITY IMPROVEMENT IN POST-
ACCREDITATION SCENARIO IN HIGHER
EDUCATIONAL INSTITUTIONS - ROLE OF
STAKEHOLDERS 32
 ➤ **Pranita Goswami & Nandita Borah**
- ❖ ROLE OF STAKEHOLDERS IN CURRICULUM
IMPLIMENTATION 38
 ➤ **Parmita Chowdhury & Kalyani Devi**

CHAPTER - 1

**POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES
OF TOP FIRST-TIME ACCREDITED
AFFILIATED COLLEGES IN INDIA**

**Samrat Dey^{*}, Pranab Jyoti Bhuyan,
Ranjan Kalita & Saumar Rajkhowa**

*Physics Department, Praggyotish College,
Gowahati - 781009, India*

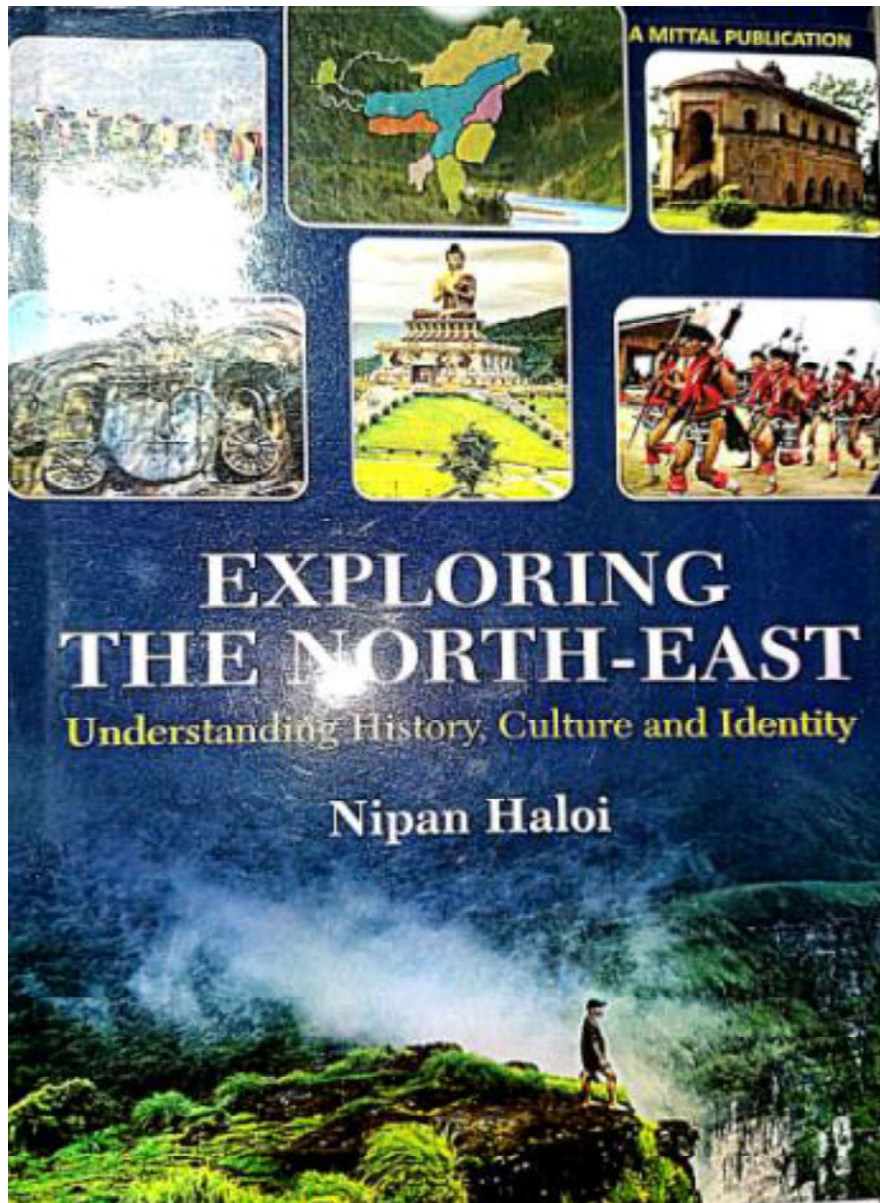
**For correspondence. (samratdgr8@gmail.com)*

ABSTRACT


Top 10 (as per the grades given by NAAC) affiliated colleges in India accredited for the first time in last 5 five years, as available in the official NAAC website, are chosen for our study. Out of these, three of the colleges are affiliated in the current year (2022) and as such, are not having data for subsequent years and thus, are not studied. We find that 4 out of remaining 7 colleges have lesser number of publications in the next or next to next year after the accreditation as compared to the number of publications in the year of accreditation. Here publication refers to articles in Scopus indexed journals. This shows that in majority of the cases, in the following two years after accreditation by NAAC there is a decrease in research articles published per year in at least one of those two years when compared with publications in the year of accreditation. The authors also plan to extend this study for

Name of the author-Sun Gogoi

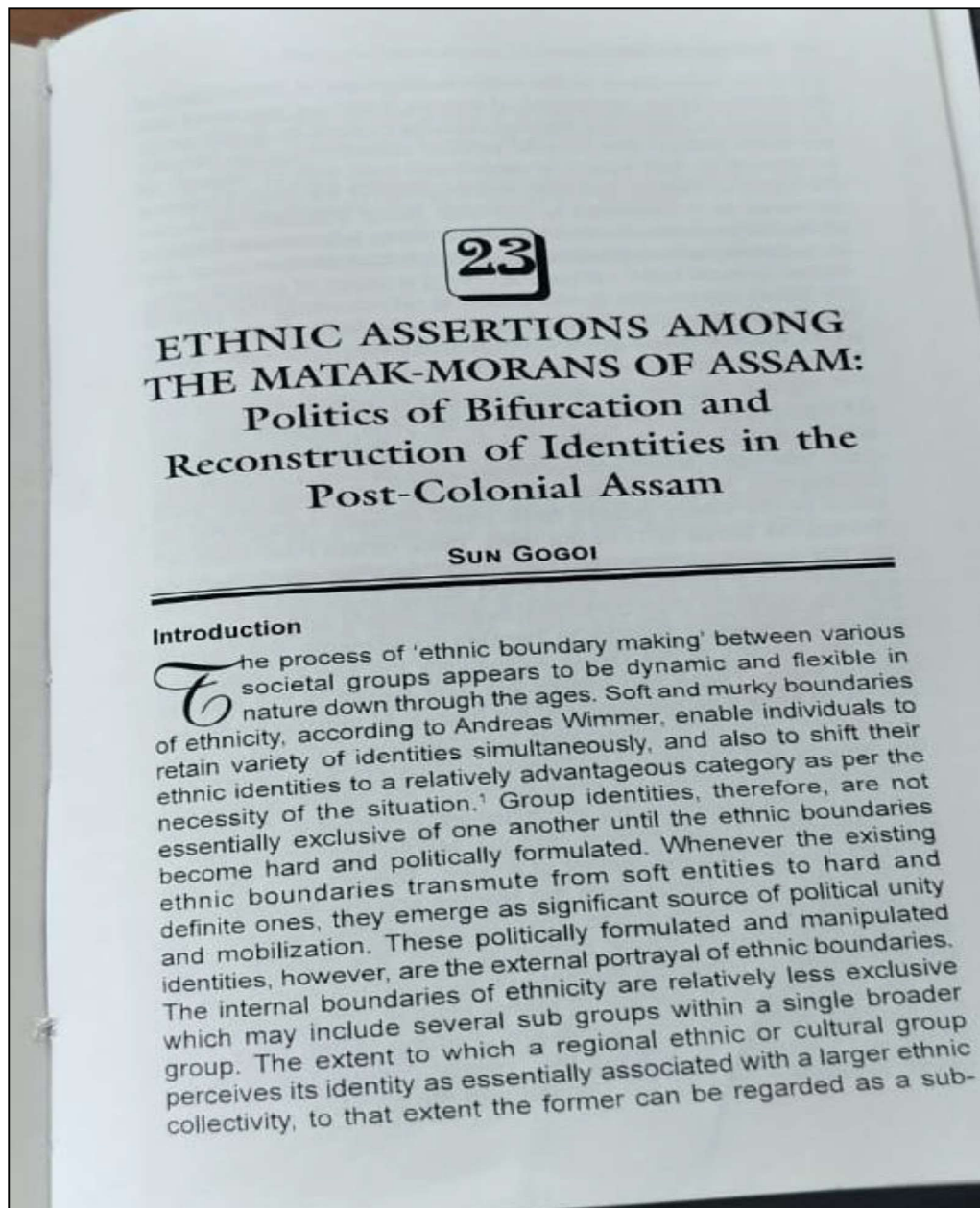
Cover page-



Content page-

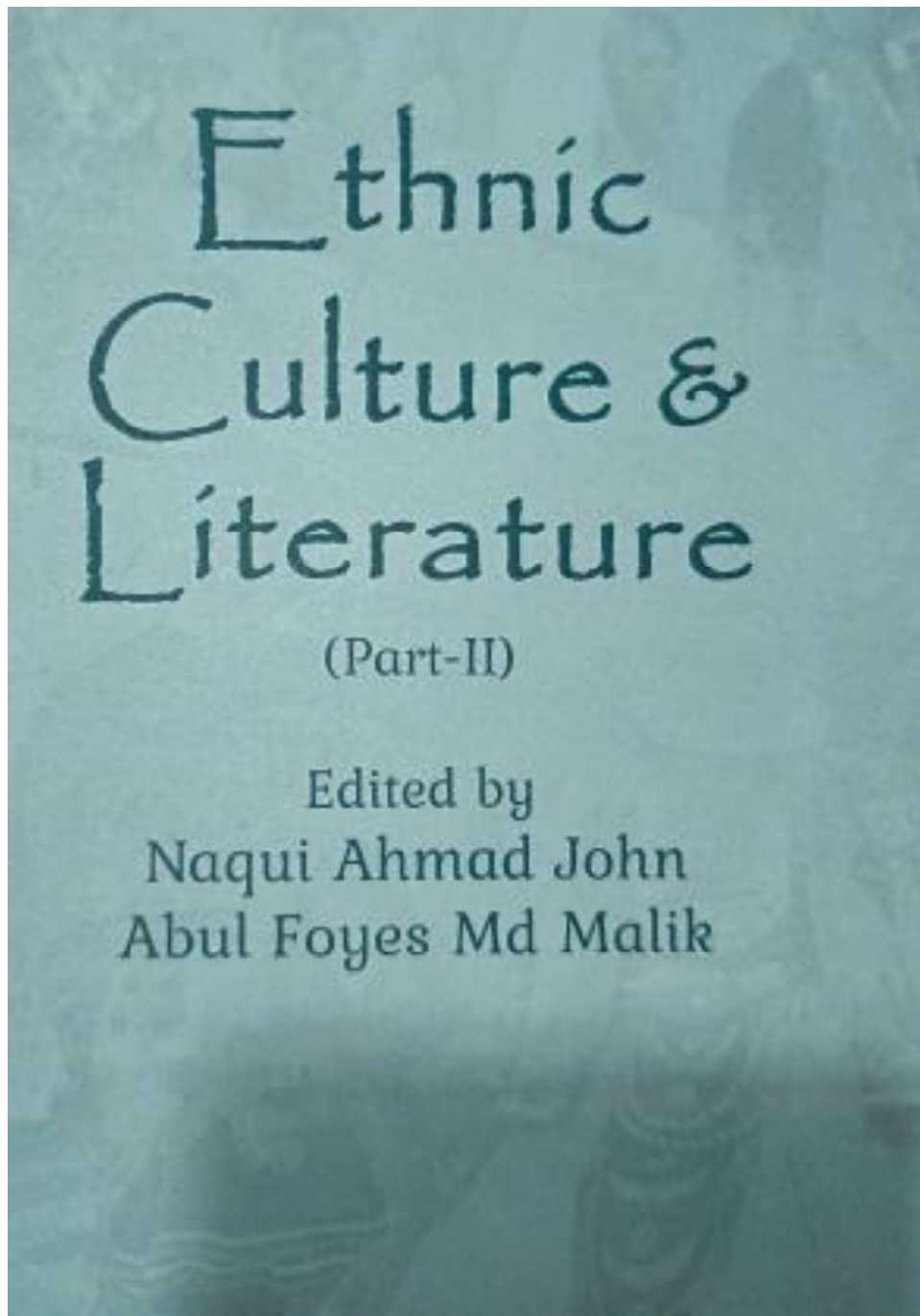
		<i>Contents / xvii</i>
20.	The Emerging Thought of Hill Tribes: A Philosophy Based Study on North East India	179
	– SANJIB PHUKAN	
21.	Chomkan: A Karbi Ritualistic Festival for The Departed Soul	185
	– NIPAN HALOI AND MONGOLSING BEY	
22.	Indian Federation and the Declaration of National Emergency (1975-77): Its Socio-Political Implications in Assam	191
	– VIOLET HAZARIKA	
 23.	Ethnic Assertions among the Matak-Morans of Assam: Politics of Bifurcation and Reconstruction of Identities in the Post-Colonial Assam	209
	– SUN GOGOI	
	<hr/>	
	<i>Index</i>	223

First page of the publication-



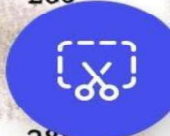
Name of the author- Sun Gogoi

Cover page-



Content page

Chapter 27	Marginalization, Insurgency and Quest for Identity: An Introspective Study of Temsula Ao's Selected Short Stories - Patrika Handique	223
Chapter 28	Mask Making Culture in Assam - Priti Bora	227
Chapter 29	Indian Diaspora and its Economic Impact on the host country : A Theoretical Perspective of United States - Ms. Ritumoni Saikia	235
Chapter 30	Mainstreaming Ethnicity through Skill Development and Entrepreneurship: A Perspective View from North East - Sadiqur Rahman	242
Chapter 31	Socio-Economic Status of Mising Women in Assam: A Special Reference to Sivsagar District - Shubha Lakshmi Dehingia	250
Chapter 32	Identity Politics and Mising Autonomy Movement in Assam - Smirti Priya Das	263
✓ Chapter 33	The Morans of Assam: Ethnic Politics and Mobility of Ethnic Boundaries (1939-1968) - Sun Gogoi	269
Chapter 34	Resurgence of Ethnic Identity: The case of Tai Ahom identity Construction in post-colonial Assam - Tulika Senapati	280
Chapter 35	Class Conflict and Identity in Arvind Adiga's The White Tiger - Udeshta Brahma	286



The Morans of Assam: Ethnic Politics and Mobility of Ethnic Boundaries (1939-1968)

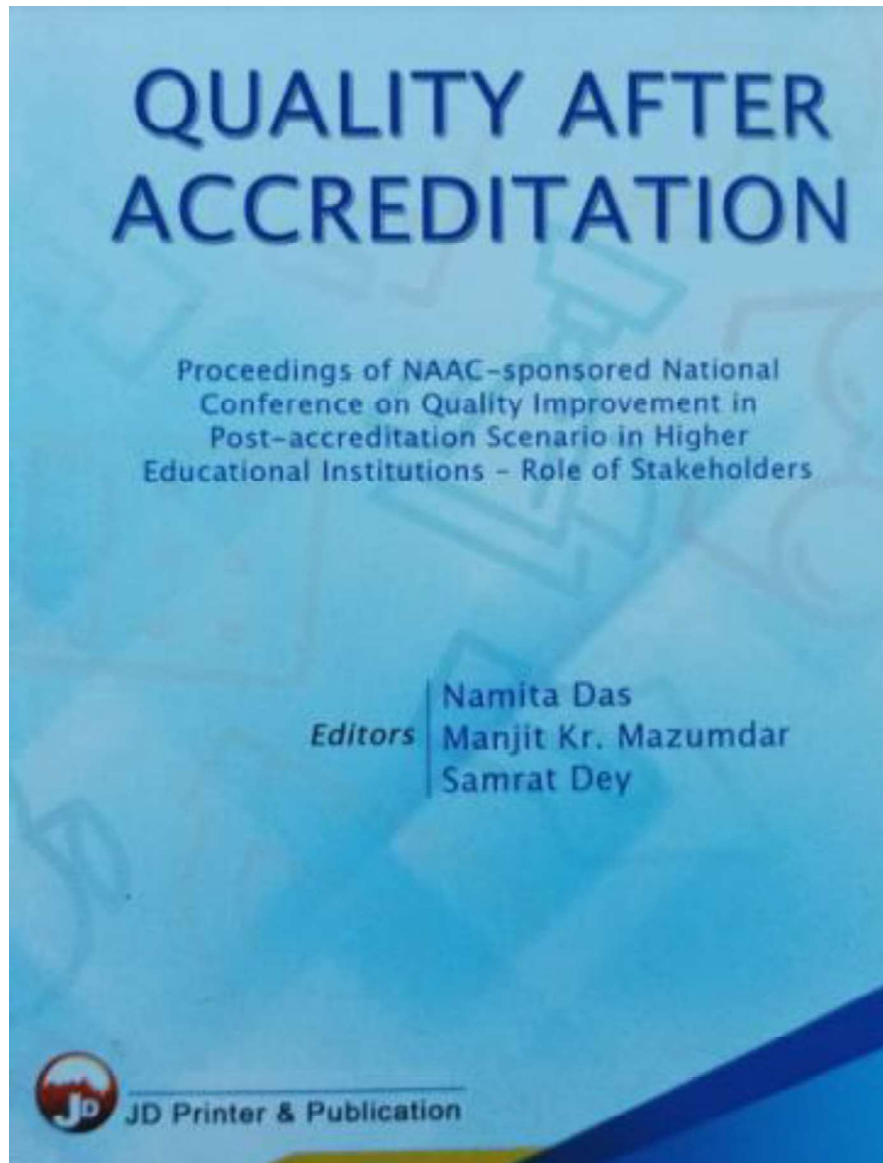
Sun Gogoi

In Northeastern India, conflicts between nationalities and communities are academically labeled as ethnic conflicts, whereas such a group's quest for framing a distinct identity and the subsequent collective mobilization of its members are branded as ethnic assertion or ethnic movement. Ethnicity lies in the outward socio-political expression of the members of a group who perceive themselves as a collectivity sharing similar descent, race, kinship, territory, language, history, etc. 'Ethnicity' refers to collective identity, shared beliefs and traits relating to a group or sub-group of population with a common national and cultural tradition, which has hitherto existed within a larger or dominant national or cultural group. The term 'ethnic community' is used in academics to denote different politicized cultural groups: racial, tribal, religious, linguistic and immigrant communities.

The terms ethnic communities, tribes and nations are frequently used as inter-exchangeable expressions in the context of India, it can be noticed that while some of the groups have been officially recognized as 'Scheduled Tribes' (ST) by the state, some others have been left out due to various reasons. Over recent decades several ethnic communities in Northeast India have tended to invoke their tribal roots by

Name of the author- Dr Pranita Goswami

Cover page-



CONTENTS...

- ❖ POST-ACCREDITATION (BY NAAC)
DECREASE IN RESEARCH ARTICLES OF TOP
FIRST-TIME ACCREDITED AFFILIATED
COLLEGES IN INDIA 7
 ❧ **Samrat Dey, Pranab Jyoti Bhuyan,
 Ranjan Kalita & Saumar Rajkhowa**

- ❖ ROLE OF STAKEHOLDERS IN HIGHER
EDUCATION INSTITUTIONS 12
 ❧ **Rashmirekha Hazarika**

- ❖ ROLE OF STAKEHOLDERS IN QUALITY
IMPROVEMENT IN HIGHER EDUCATIONAL
INSTITUTIONS AFTER RECEIVING
ACCREDITATION 23
 ❧ **Dhriti Borah**

- ❖ QUALITY IMPROVEMENT IN POST-
ACCREDITATION SCENARIO IN HIGHER
EDUCATIONAL INSTITUTIONS - ROLE OF
STAKEHOLDERS 32
 ❧ **Pranita Goswami & Nandita Borah**

- ❖ ROLE OF STAKEHOLDERS IN CURRICULUM
IMPLIMENTATION 38
 ❧ **Parmita Chowdhury & Kalyani Devi**

First page of the publication-

CHAPTER - 4

**QUALITY IMPROVEMENT IN
POST-ACCREDITATION SCENARIO IN
HIGHER EDUCATIONAL
INSTITUTIONS-ROLE OF
STAKEHOLDERS**

Pranita Goswami and Nandita Borah

Department of Statistics, Pragjyotish College, Guwhati-791009

**For correspondence. (pranita_goswami@yahoo.com)*

ABSTRACT

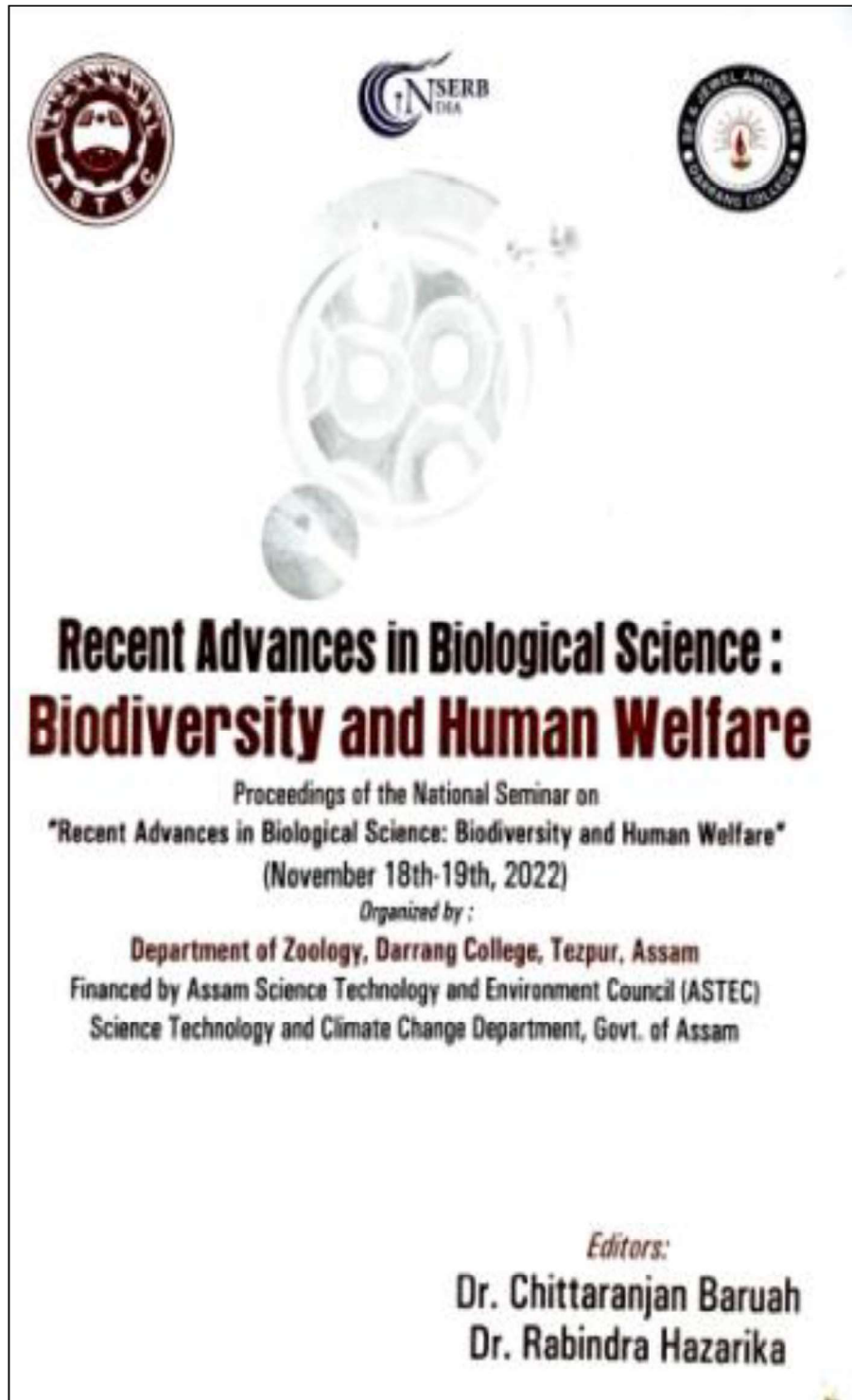
In improving the Quality of Higher Educational institutions NAAC which is an Autonomous body of UGC has given Highest weightage to the Criteria II i.e Teaching-Learning and Evaluation in Higher Educational Institutions . It is the Students who play a very important role as a Stakeholder. This paper gives us a brief idea about some of the role of different stakeholder giving more importance to teachers and students as they frame the society and country as a whole in giving and taking knowledge. The teachers play a vital role in imparting knowledge to the Students in Higher educational institutions in Post Accreditation Scenario according to their talent and interest.

KEYWORDS

institutions; student, teacher; stakeholder

Name of the author- Seema Kaur

Cover page-



Chapter-12	Diversity of Odonata Species along the waterside of Kopili River at Hawaipur, West Karbi Anglong	125
	✎ Ashim Biswas, Seema Kaur	
Chapter-13	Studies on vegetative propagation rate of some genera of Orchids from Nagaon district of Assam	130
	✎ Dr. Basistha Kalita	
Chapter-14	Studies on feeding deterrent properties of plants in Kaliabor Sub-division, Assam against Assamese macaque (<i>Macaca assamensis</i>)	139
	✎ Abhijit Sonowal, Chiranjeev Bezbaruah, Aakrit Kashyap, Madhurya Das	
Chapter-15	Bioprospection of lichens concerning human welfare	145
	✎ Rosni Jabin, Rajashree Deka, Jogen Chandra Kalita, Farishta Yasmin	
Chapter-16	Prospects of Non-conventional Plant-based Formulations of Probiotics	156
	✎ Minakshee Sarmah, Dr.Manab Deka	
Chapter-17	Proximate and fatty acid content of edible viscera and muscle of Ghungroo pig breed of Assam, India	165
	✎ Rijumoni Daimari, Silistina Narzari, Jatin Sarmah	
Chapter-18	A pilot study on Food adulteration practices and it's Awareness among people in Nagaon Town, Assam	172
	✎ Aryan Kumar Singh, Priyanki Sharma	
Chapter-19	Longevity and Equality at ages of death in <i>Homo Sapiens</i> : A Comparative study with special reference to India and its states	183
	✎ Rajan Sarma, Shreya Sarma	
Chapter-20	Assessment of the Physiological and Psychological Attributes of PCOS Patients of Western Assam	188
	✎ Juli Bairagi, Sreeja Dutta, Ajit Hazarika	
Chapter-21	A study on indigenous knowledge of Medicinal Plants in the treatment of various Diseases among the Tribal Community of Jorhat, Assam	200
	✎ Priyanka Saikia, Manashi Bortamuly	
Chapter-22	Effect of thyroid disorder on hematological parameters in tribal pregnant women of different trimester in Dima Hasao district, Assam	211
	✎ Trisha Sonowal, Jatin Sarmah, Paresh Kumar Sarma	
Chapter-23	A study on comparative analysis and prevalence of some communicable diseases in 5 Health Centre of Kaliabor Sub Division, Nagaon, Assam	224
	✎ Akankhya Sharma, Anupam Kumar Medhi, Abhijit Sonowal, Latashree Kalita, Gosai Chan Das.	

Chapter 12 :

**DIVERSITY OF ODONATA SPECIES ALONG THE
WATERSIDE OF KOPILI RIVER AT HAWAIPUR, WEST
KARBI ANGLONG**

**Ashim Biswas¹,
Seema Kaur²**

¹*Gauhati University, Gopinath Bordoloi Nagar, Jalukbari, Guwahati*
² *Seema Kaur, Department of Zoology, Pragjyotish College, Guwahati-09.*
**Corresponding authors' email: ashim611@gmail.com*

ABSTRACT

Odonates are skilled aerobatics and merciless predator and also act as pollution indicator. Odonata (Dragonfly and Damselfly) species diversity was studied along Kopili river at Hawaipur, West Karbi Anglong during pre-monsoon and monsoon session, 2022. This study aims to understand the species diversity of dragonflies and damselflies along the waterside of Kopili river. A total of 37 species belonging to 7 families were recorded. The highest number of odonates belonged to the family Libellulidae (21 species) followed by Coenagrionidae (11 species). The species diversity was calculated using Shannon index and Simpson's index.

Keywords: Dragonfly, Damselfly, Odonata

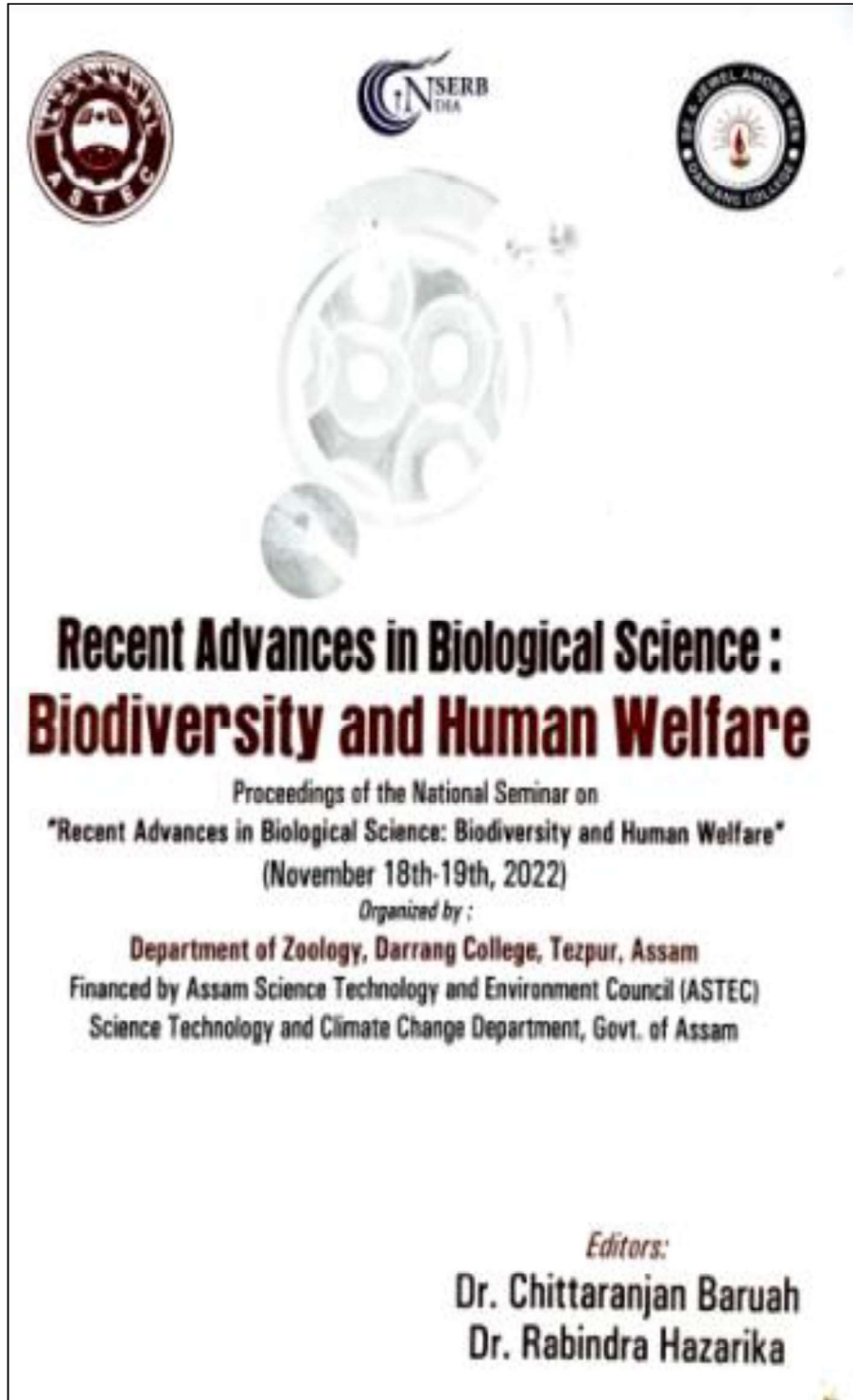
INTRODUCTION

Dragonflies and damselflies come under the order Odonata, which is taxonomically isolated and very ancient. Dragonflies are one of the most majestic, beautiful and ancient creatures that roamed the Earth. Dragonflies are recognized for their long, slender abdomen and two pairs of elegantly veined long wings, often flying like a helicopter. Dragonflies are skilled aerobatics and merciless predator, from the beginning they have been perfect sky hunters. All dragonflies are excellent flyers but they fly in different styles, the smaller damselflies tend to be more cautious as they are more of the elegant ballet dancer than the wadded attackers. Big dragon flies look like modern attack helicopters that dart off to top speed from a standing gliding position.

Odonata fauna of India is known by 475 species belonging to 142 genera and 18 families (Subramanian 2014; Nair & Subramanian, 2014). Laidlaw (1914) described 20 species of dragonflies and damselflies from Assam and Burma.

Name of the author-Langtuk Terang

Cover page-



CONTENT

Chapter-1	Present status and potential distribution prediction of Indian Peafowl <i>Pavo cristatus</i> in Assam, India using MaxEnt model ✎ Vivek Chetry, Pranjal Mahananda, Prasanta Kumar Saikia	9
Chapter-2	Estimation of Carbon stock of Tree Communities along the Three selected roads of Guwahati city, Assam, India ✎ Jijnyasha Bayan, Maitreyee Goswami, Uma Dutta, Arup Kumar Hazarika, Kuladip Sarma	21
✓ Chapter-3	Web Stability : A Possible Function of Stabilimentum in <i>Argiopepulchella</i> webs (Araneae : Araneidae) ✎ Sangeeta Das, Jatin Kalita, Nilutpal Mahanta, Langtuk Terang, Reshmi Bhattacharjee	43
Chapter-4	Diet of Tadpoles of Streams of West Manipur Hills ✎ Shelina D. Yumkham, Saibal Sengupta	51
✓ Chapter-5	Prediction of Potential Distribution of <i>Dendrocygna javanica</i> in North East India using Maxent ✎ Langtuk Terang, Chandan Mahanta, Sangeeta Das, Sumantra Chaudhury	63
Chapter-6	A study of the human-elephant conflict in the fringe villages of Kakoi Reserve Forest of Lakhimpur district, Assam ✎ Bhaswat Ranjan Borah, Jogen Chandra Kalita	74
Chapter-7	A study on diverse Heteropteran fauna of Kamrup (M), Assam ✎ Santana Saikia, Anjana Singha Naorem	85
Chapter-8	Diversity of earthworm species used by the farmers in udalguri District of Assam ✎ Daijy Kalita, Binita Das	94
Chapter-9	Pollinating insect diversity and its conservation ✎ Pollobi Duara	99
Chapter-10	Understanding Human-Elephant conflict at the fringe of Bornadi Khalingduar Forest Complex ✎ Gayatri Deka, Sangita Baruah, Sunit kumar Das	103
Chapter-11	Rural Tourism and its impacts on fauna- A study in Nameri National park, Assam ✎ Tanuja Tamuli Phukan.	111

Chapter 3 :

**WEB STABILITY : A POSSIBLE FUNCTION OF
STABILIMENTUM IN *Argiopepulchella* WEBS (ARANEAE :
ARANEIDAE)**

**¹Sangeeta Das¹, Jatin Kalita²,
Nilutpal Mahanta³, Langtuk Terang⁴
Reshmi Bhattacharjee⁵**

¹*Department of Zoology, Pragjyotish College, Assam, India*

²*Department of Zoology, Gauhati University, Assam, India*

³*State Associate, TOFI- World Agroforestry, Assam, India*

⁴*Department of Zoology, BirjhoraMahavidalaya, Assam, India*

⁵*Corresponding authors' e-mail: sangeeta@pragjyotishcollege.ac.in /
sangeetadasccss@gmail.com*

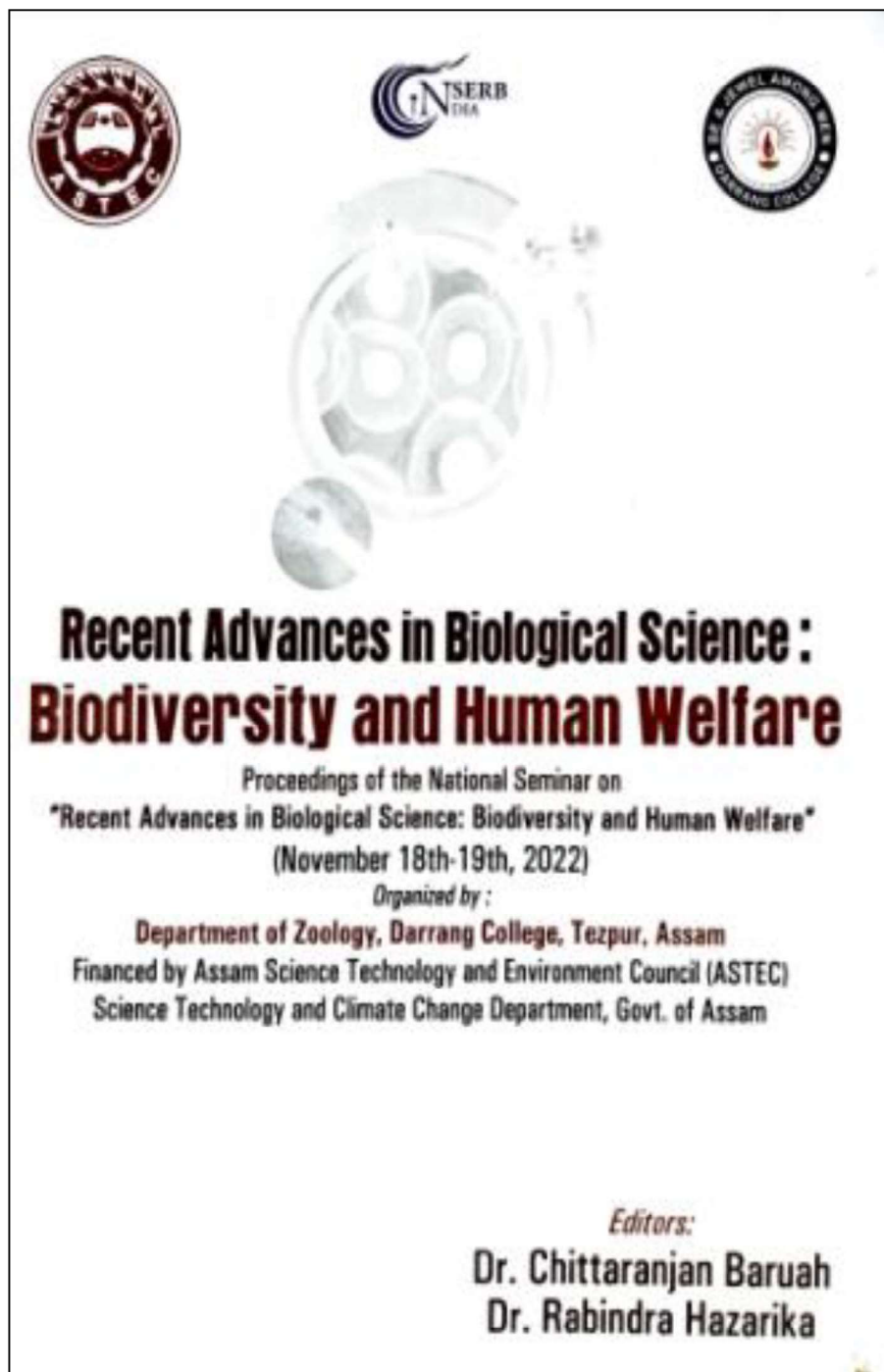
ABSTRACT

Argiopepulchella, Thorell 1881, is commonly known as the signature or garden cross spider because of its elaborate silk decoration called stabilimentum present on its web. For an orb web spider, the silk web acts as a foraging device which ensures prey capture. Investment of additional silk in form of web decorations is common to this group of spiders which led many workers to investigate the actual function of the stabilimentum. In the current work, the web stability hypothesis was tested for *Argiope* webs. If stabilimentum functions to provide web stability then- i. it should be present in all *Argiope* webs and, ii. small-sized webs and webs with less radial threads should have elaborate decorations to compensate with the less silk invested in web. We found that stabilimentum is not a constant element of *Argiope* webs. Stabilimentum when present were either circular or linear type. Though larger webs had smaller or no stabilimentum and vice-versa, but this inverse relationship could be proved statistically. Multiple regression analysis revealed that the number of radial threads was found to be the direct predictor of the inverse relationship, i.e. webs with lesser number of radial threads often displayed elaborate stabilimentum ($t = -2.920, p = .004$). Since, radial threads are the primary framework on which the spiders starts web construction. Therefore, lesser radial threads would result in less stability of the web. This is in turn compensated by investing silk in form web decoration after the web is fully constructed for better web stability optimization.

Keywords: Web decoration, stability, *Argiope*, stabilimentum

Name of the author- De Sangeeta Das

Cover page-



Content page-

CONTENT

- Chapter-1 Present status and potential distribution prediction of Indian Peafowl *Pavo cristatus* in Assam, India using MaxEnt model 9
✎ Vivek Chetry, Pranjal Mahananda, Prasanta Kumar Saikia
- Chapter-2 Estimation of Carbon stock of Tree Communities along the Three selected roads of Guwahati city, Assam, India 21
✎ Jijnyasha Bayan, Maitreyee Goswami, Uma Dutta, Arup Kumar Hazarika, Kuladip Sarma
- ✓ Chapter-3 Web Stability : A Possible Function of Stabilimentum in *Argiopepulchella* webs (Araneae : Araneidae) 43
✎ Sangeeta Das, Jatin Kalita, Nilutpal Mahanta, Langtuk Terang, Reshmi Bhattacharjee
- Chapter-4 Diet of Tadpoles of Streams of West Manipur Hills 51
✎ Shelina D. Yumkham, Saibal Sengupta
- ✓ Chapter-5 Prediction of Potential Distribution of *Dendrocygna javanica* in North East India using Maxent 63
✎ Langtuk Terang, Chandan Mahanta, Sangeeta Das, Sumantra Chaudhury
- Chapter-6 A study of the human-elephant conflict in the fringe villages of Kakoi Reserve Forest of Lakhimpur district, Assam 74
✎ Bhaswat Ranjan Borah, Jogen Chandra Kalita
- Chapter-7 A study on diverse Heteropteran fauna of Kamrup (M), Assam 85
✎ Santana Saikia, Anjana Singha Naorem
- Chapter-8 Diversity of earthworm species used by the farmers in udalguri District of Assam 94
✎ Daijy Kalita, Binita Das
- Chapter-9 Pollinating insect diversity and its conservation 99
✎ Pollobi Duara
- Chapter-10 Understanding Human-Elephant conflict at the fringe of Bornadi Khalingduar Forest Complex 103
✎ Gayatri Deka, Sangita Baruah, Sunit kumar Das
- Chapter-11 Rural Tourism and its impacts on fauna- A study in Nameri National park, Assam 111
✎ Tanuja Tamuli Phukan.

First page of the publication-

Recent Advances in Biological Sciences - Biodiversity & Human Welfare, pp. 43-50
ISBN 978-81-960355-4-0

Chapter 3 :

**WEB STABILITY : A POSSIBLE FUNCTION OF
STABILIMENTUM IN *Argiopepulchella* WEBS (ARANEAE :
ARANEIDAE)**

**Sangeeta Das¹, Jatin Kalita²,
Nilutpal Mahanta³, Langtuk Terang⁴
Reshmi Bhattacharjee⁵**

¹Department of Zoology, Pragjyotish College, Assam, India

²Department of Zoology, Gauhati University, Assam, India

³State Associate, TOFI- World Agroforestry, Assam, India

⁴Department of Zoology, Birjowa Mahavidyalaya, Assam, India

*Corresponding authors' e-mail: sangeeta@pragjyotishcollege.ac.in /
sangeetadtrccss@gmail.com

ABSTRACT

Argiopepulchella, Thorell 1881, is commonly known as the signature or garden cross spider because of its elaborate silk decoration called stabilimentum present on its web. For an orb web spider, the silk web acts as a foraging device which ensures prey capture. Investment of additional silk in form of web decorations is common to this group of spiders which led many workers to investigate the actual function of the stabilimentum. In the current work, the web stability hypothesis was tested for *Argiope* webs. If stabilimentum functions to provide web stability then- i. it should be present in all *Argiope* webs and, ii. small-sized webs and webs with less radial threads should have elaborate decorations to compensate with the less silk invested in web. We found that stabilimentum is not a constant element of *Argiope* webs. Stabilimentum when present were either circular or linear type. Though larger webs had smaller or no stabilimentum and vice-versa, but this inverse relationship could be proved statistically. Multiple regression analysis revealed that the number of radial threads was found to be the direct predictor of the inverse relationship, i.e. webs with lesser number of radial threads often displayed elaborate stabilimentum ($t = 2.920$, $p = 0.014$). Since, radial threads are the primary framework on which the spiders starts web construction. Therefore, lesser radial threads would result in less stability of the web. This is in turn compensated by investing silk in form web decoration after the web is fully constructed for better web stability optimization.

Keywords Web decoration, stability, *Argiope*, stabilimentum

Accepted
PRINCIPAL
PRAGJYOTISH COLLEGE
BHARALUMUKH
GUWAHATI - 9