

## DR. SANJUKTA SATTAR

Professor & Head

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sanjukta.sattar@gmail.com

### **AREA OF SPECIALISATION**

Urban Geography, Social Geography, Cultural Geography, Tourism Geography

## **RESEARCH INTEREST**

Urban socio-spatial segregation and exclusion, Housing and homelessness, Urban mobilities, Tourism geography, Place branding, Creative economy.

## **EDUCATION**

University of Calcutta, Kolkata.

Ph.D.

Jawaharlal Nehru University, New Delhi-110067 M.Phil.

Jawaharlal Nehru University, New Delhi-110067 M.A.

Presidency College, Kolkata.

B.Sc.

Calcutta Girls' High School, Kolkata.

ISC

Calcutta Girls' High School, Kolkata. ICSE

### AWARDS AND ACCOMPLISHMENTS

UGC – NET, 1995 National Scholarship, 1993 -1994

### **WORK EXPERIENCE**

Assistant Professor: March 04, 1999 – March 03, 2012

Department of Geography, Gokhale Memorial Girls College, Kolkata-700020.

Associate Professor: March 04, 2012 - August 06, 2012

Department of Geography, Gokhale Memorial Girls College, Kolkata-700020.

Associate Professor: August 07, 2012 to April 28, 2014

Department of Geography, Aliah University, II-A/27, Action Area II, Newtown, Kolkata, West Bengal

700156.

Associate Professor: April 29, 2014, to April 28, 2018

Department of Geography, University of Mumbai, Vidyanagari, Kalina, Santacruz (E), Mumbai 400098.

Professor: April 29, 2018, till date

Department of Geography, University of Mumbai, Vidyanagari, Kalina, Santacruz (E), Mumbai 400098.

**Head of Department:** 01<sup>st</sup> January 2020 till 31<sup>st</sup> December 2022; 03<sup>rd</sup> March 2023 till date Department of Geography, University of Mumbai

## LIST OF PUBLICATIONS

Book

"Tourism in Sikkim (India): Impact on Economy, Society and Environment" VDM Verlag, Saarbrucken HRB, Germany, 2010. ISBN :978-3-639-23609-5

# Papers in edited books

"Handloom and handicraft in India: clusters and specializations" in Abdul Shaban, Filip Vermeylen and Christian Handke (ed.) "Creative Industries in India", pp.281-299, Routledge, New York, 2023. ISBN 978-0-367-61503-1; eBook ISBN 9781003129370

"Mollywood: the rise and fall of a subaltern cinema" in Abdul Shaban, Filip Vermeylen and Christian Handke (ed.) "Creative Industries in India", pp.261-277, Routledge, New York, 2023 (Coauthored with A. Shaban & A. Faizee). ISBN 978-0-367-61503-1; eBook ISBN 9781003129370

"River Tourism in India: Its Role and Significance" in Aznarul Islam et al. "Fluvial System in the Anthropocene: Process, Response and Modelling", pp.475-487, Springer Nature, Switzerland AG, 2022. ISBN 978-031-11180-8; eBook ISBN 978-3-031-11181-5 <a href="https://doi.org/10.1007/978-3-031-11181-5">https://doi.org/10.1007/978-3-031-11181-5</a>

"Life in the Slums of Mumbai: Struggle for Survival Amidst the Unsanitary Conditions" in Abha Lakshmi Singh, Saleha Jamal (ed.) "Sanitation for the Urban Poor in Indian Cities: Issues and Challenges", pp. 31-47, B.R. Publishing Corporation, Delhi, 2022 (Co-authored with S. Bhattacharjee). ISBN: 9789391123055

"Muslim middle class in India: Size, diversity and correlates", in Manish K Jha, Pushpendra (ed.) "Beyond Consumption: India's New Middle Class in the Neo-Liberal Times", pp. 35-57, Routledge, London, 2021 (Co-authored with Abdul Shaban). ISBN: 9781003098416 (ebook) https://doi.org/10.4324/9781003098416

"Industrial and Commercial Geography of India: A Study of Changes in the Post-reform Period", in Mahabir S. Jaglan, Rajeshwari (ed.) "Reflections on 21<sup>st</sup> Century Human Habitats in India", pp. 189 – 217, Springer, Singapore, 2021 (Co-authored with Abdul Shaban). ISBN: 978-981-16-3099-6; ISBN: 978-981-16-3100-9 (ebook) <a href="https://doi.org/10.1007/978-981-16-3100-9">https://doi.org/10.1007/978-981-16-3100-9</a>

"Film, fashion, events and city branding of Mumbai, India" in Waldemar Cudny (ed.) "Place event Marketing in the Asia pacific Region", pp.125 – 142, Routledge, Oxon/ New York, 2021.ISBN: 978-0-367-42354-4 (hbk); ISBN: 978-1-032-06101-6 (pbk); ISBN: 978-0-367-82376-4(ebk)

*"Social Exclusion and Urban Segregation in Kolkata"* in M.H. Qureshi (ed.) "Geographical Studies in India: Current Concerns", pp.45-65, Pentimer Publications, New Delhi, 2019. ISBN - 978-93-88949-00-2

"Social Exclusion and Muslims of Kolkata" in Abdul Shaban (ed.) "Lives of Muslims in India", pp. 226 -249, Routledge, 2<sup>nd</sup> Edition, New Delhi/ London, 2018. ISBN: 978-0-415-50851-3; eBook ISBN9781351227612

"Women and Nature: Understanding the Relationship" in S.Bose et.al. (ed.) "Women Empowerment: A Third World Perspective", pp.3-15, Radiance, Kolkata, March 2017. ISBN: 978-93-81037-66-9

"Industrial Dispersal and Clustering in India during Post-Reform Period and the Role of Small and Medium Towns", in R.N. Sharma and R.S. Sandhu (eds) 'Small Cities and Towns in Global Era: Emerging Challenges and Perspectives", pp. 111-151, Rawat Publications, Jaipur, 2013 (co-authored with A. Shaban). ISBN: 978-81-316-0575-2

"Social Exclusions and Muslims of Kolkata" in Abdul Shaban (ed.) "Lives of Muslims in India", pp. 226-249, Routledge, New Delhi/ London, 2012. ISBN: 978-0-415-50851-3

"Methodological Approaches in Tourism Geography", in 'Teaching and Research Methodology in Geography', Proceedings of the Ninth Refresher Course in Geography' (pg.313-323), Academic Staff College & Department of Geography, University of Calcutta, Calcutta 2010

## **Papers in Journals**

# 'Mobility and transport infrastructure in Mumbai Metropolitan Region: growth, exclusion and modal choices.

Sanjukta Sattar (Co-authored with Abdul Shaban)
Urban Planning and Transport Research, vol.11, No.1. 2023
https://doi.org/10.1080/21650020.2023.2212745

## Human -Wildlife Conflict in Mumbai with especial reference to Mulund

Sanjukta Sattar (Co- authored with Sujayita Bhattacharjee)

Ensemble, Vol 3, No.1, March 2021: 227-234, https://doi.org/10.37948/ensemble-2021-0301-a027, ISSN: 2582-0427(Online).

# Pandemic and Urban Sustainability: Analyzing the Covid-19 Scenario in Mumbai, India

Sanjukta Sattar (Co- authored with Sujayita Bhattacharjee)

Geography, Environment, Sustainability, Vol.14, No 1, April 1<sup>st</sup>, 2021: 17-24, <a href="https://DOI-10.24057/2071-9388-2020-189">https://DOI-10.24057/2071-9388-2020-189</a>, ISSN No. 2071-9388 (Print), ISSN No. 2542-1565 (Online).

# The Disrupted Rhythm of Public Spaces Under the Covid-19 Lockdown: A Case Study from Mumbai Metropolitan Region

Sanjukta Sattar (Co- authored with Sujayita Bhattacharjee)

Ensemble, Special Issue No.1, March, 2021: 54- 59 DOI: <u>10.37948/ensemble-2021-sp1-a007</u> ISSN 2582-0427 (Online).

### COVID – 19 Pandemic and the Poor in the Urban Spaces of India with special reference to Mumbai

Sanjukta Sattar (Co- authored with Sujayita Bhattacharjee)

Equality, Diversity and Inclusion, Vol. ahead-of-print No. ahead-of-

print. https://doi.org/10.1108/EDI-07-2020-0196, March 2021, ISSN No. 2040-7149

# A March towards Smart Livable City: Understanding Spatial Disparity of Smart Public Infrastructure across Thane Municipal Corporation

Sanjukta Sattar (Co- authored with P. Bannerjee)

International Journal on Emerging Technologies, Vol. 11 No.3, 2020: 919-926, ISSN No. (print) 0975-8364, ISSN No. (online) 2249-3255.

# Making of Women Entrepreneurs: Journey to Economic and Social Empowerments

Sanjukta Sattar

Re-Markings, A Biannual Refereed International Journal of English Letters, vol.18 No.2 September 2019, Re-Markings in association with Authors Press, New Delhi, ISSN 0972-611X.

# Culture, Creativity and Tourism: A Study of Sikkim

Sanjukta Sattar

NGJI, An International Refereed Journal, Special Volume in Honour of Prof. S.L. Kayastha, Theme: Population Issues, Vol.64 No.3-4, September -December 2018, National Geographical Society of India, Banaras Hindu University, Varanasi, India. ISSN:0027-9374.

## Subhas Chandra Bose and Women Empowerment

Sanjukta Sattar

Re-Markings, vol.16 No.1 January 2017, Special Number, Re-Markings in association with Authors Press, New Delhi, ISSN 0972-611X.

## Critical Reflection on Contemporary Urbanization in India

Sanjukta Sattar (Co-authored with Abdul Shaban)

Shelter, vol.17 No. 1, April 2016, Human Settlement Management Institute, HUDCO publications New Delhi, ISSN 2347-4912.

# **Urban Tourism and Development: A Study of Kolkata**

Sanjukta Sattar (Co-authored with R.Mullick)

Geographical Review of India, vol. 76, No.2 June 2014, Geographical Society of India, Kolkata ISSN0375-6386.

# Potential of Tourism in Poverty Alleviation and Development of Sikkim

Sanjukta Sattar

IASSI-Quarterly Year 2013, Volume-32, Issue-3 (July–September) Online published on 19 July, 2014 Online ISSN: 0974-018X Print ISSN: 0970-9061.

#### Homeless in India

Sanjukta Sattar

Shelter, vol.15 No.1, April 2014, Human Settlement Management Institute, HUDCO publications New Delhi, ISSN 2347-4912.

### 'Rainfall Cycles, Livelihood and Migration in India'.

Sanjukta Sattar (Co-authored with Abdul Shaban)

International Journal for Sustainable Innovations, vol.3, Nos.1. 2013

http://www.igdr.ac.in/IJSI ISSN 2231- 3664 (Print Version) ISSN 2231-3672 (Online Version)

## Water Security in Urban India

Sanjukta Sattar (Co-authored with Abdul Shaban)
International Journal of Global Environmental issues, vol.11, Nos.3/4, 2011
www.inderscience.com ISSN 1466-6650

## **Tourism and Development in Sikkim**

Sanjukta Sattar

Population and Environment bulletin, ENVIS &IIPS vol:7No.3&4, December,2010- March 2011.

ISSN: 0975-7287 3

# Cultural Impact of Tourism: A Case Study of Sikkim.

Sanjukta Sattar Geographical Review of India, Vol. 70 No.3, December 2008: 206-215. ISSN:0375-6386

## Cointegration and Causality Between Population and Income in India.

Sanjukta Sattar (Co-authored with Abdul Shaban) Geographical Review of India, vol. 64 No:1, December 2002: 51-60. ISSN:0375-6386

## Development of Tourism in Sikkim: A Spatio-Temporal Analysis.

Sanjukta Sattar (Co-authored with Abdul Shaban) Geographical Review of India, vol:62 No:4, 2000: 317-334. ISSN:0375-6386

# **Conference Proceedings**

## Tourism as a Sustainable Livelihood: A Study of Sikkim

Sanjukta Sattar

Proceedings of 1<sup>st</sup> International Conference on SUSTAINABLE DEVELOPMENT, November, 2017, Institute of Development Studies and Sustainability (IDSS) & United International University (UIU), ISBN: 978-984-34-3128-8.

### PAPERS PRESENTED IN SEMINARS/WEBINARS

Sanjukta Sattar (2023). 'The Disappearing chawls and gentrification of Mumbai: Exploring the transformation through the Bollywood lens' in panel session "Gentrification through Media: Representations in News Media, Novels, and Film", presented at Global Symposium "Gentrification & Displacement: What Can We Do About It? that was held on October 26-28, 2023, organized by Boston University, Initiatives on Cities, Boston.

Sanjukta Sattar (2023). 'Sustainable Urban Transport Infrastructure and City Livability: A Study of Mumbai, India', presented at 1<sup>st</sup> International Conference on Sustainable Regional Development in Central Asia, organized by Narxoz University, Almaty, Kazakhstan in collaboration with Regional Science Association International, on 11-12<sup>th</sup> May 2023 at Narxoz University, Almaty, Kazakhstan.

Sanjukta Sattar (2023). **'Urban Transport Infrastructure in Mumbai Metropolitan Region: Examining the Sustainability'** Presented at 6<sup>th</sup> UIU-ICSD 2023, International Conference on Sustainable Development: Towards a Liveable World, in the session on *Sustainable Cities, Green Energy and Built Environment*, organized by United International University, Dhaka, Bangladesh, February 19-20, 2023 at Dhaka, Bangladesh.

Sanjukta Sattar (2021). 'Sustainable urban mobility infrastructure in cities of the Global South: Evidence from Mumbai Metropolitan Region' Presented at13th World Congress of the Regional

Science Association International (RSAI), on "Smart Regions- Opportunities for sustainable development in the digital era", in the Special Session on *Urban Future in the Global South,* Virtual Conference organized by RSAI-Morocco Section, May 25-28, 2021.

Sanjukta Sattar (2019). 'Pattern and Characteristics of Women Entrepreneurship in India' Presented at World Congress on Women 2019 "Celebrating the Past, Planning for the Future", organized by BioGenesis Health Cluster, September 8<sup>th</sup>, 2019, J.N. Tata Auditorium, Indian Institute of Sciences, Bengaluru, India.

Sanjukta Sattar (2018). 'Pattern and Characteristics of Entrepreneurship in Handloom and Handicraft Sector in India' Presented at the Two-day International Conference on 'Entrepreneurship, Poverty Reduction and Marginalised section: Learning from Cross-country Experiences' jointly organized by Tata Institute of Social Sciences (Mumbai), University of Paris Diderot (Paris7), CESSMA (Paris Diderot University) and LABEX DynamiTe, 15-16 October 2018 at Tata Institute of Social Sciences, Mumbai.

Sanjukta Sattar (2018). 'Migration and Development in India: Exploring Linkages'
Presented at the International Conference on Sustainable Development 2018 (UIU-ICSD 2018),
organized by United International University, Dhaka, Bangladesh, February 15-17, 2018.

Sanjukta Sattar (2017). 'Tourism as a Sustainable Livelihood Option: A Study of Sikkim' Presented at the International Conference on Sustainable Development 2017 (UIU-ICSD 2017), organized by United International University, Dhaka, Bangladesh, February 16-18 2017.

Sanjukta Sattar (2015). *'Role of Tourism in Sikkim'*Presented at National Seminar 'Advances in Geography', organized by Department of Geography, University of Mumbai, March 30, 2015.

Sanjukta Sattar & Rima Mullick (2013). *'Urban Renewal and Tourism Development in Kolkata'* Presented at the '35th Indian Geographers' Meet & International Conference', organized by Institute of Indian Geographers (IIG) held at the Department of Geography, The University of Burdwan, West Bengal, November 11-13, 2013.

Sanjukta Sattar & Abdul Shaban (2013). *'Rainfall Cycles, Livelihood and Migration in India'*. Presented at the 'International Symposium on a Sustainable Future - 2013' organized by Indira Gandhi Institute of Development and Research, Mumbai, October 16- 18, 2013.

Sanjukta Sattar (2013). 'Social Exclusion and Urban Segregation: A Study of Kolkata'. Presented in National Seminar on 'Revisiting Geography as a Sustainable Discipline', organized by A.M. Khwaja Chair, Department of Geography, Jamia Millia Islamia, New Delhi, February 20-21, 2013.

Sanjukta Sattar (2012). *'Role of Creative Industries'*. Presented at 'International Conference on Dimension of Development and Resource Conservation', Department of Geography, University of Kolkata, March10-12, 2012.

Sanjukta Sattar (2011). 'Homelessness in Megacities in India'. Presented at 33rd Indian Geography Congress,' organized by National Association of Geographers, India (NAGI)held at the Department of Geography, the University of Burdwan, November 11-13, 2011.

Sanjukta Sattar & Abdul Shaban (2011). 'Industrial Dispersal and Clustering in India during Post-reform Period and the Role of Small and Medium Towns'. Presented at the National Seminar on 'Small Cities and Towns in Global Era: Emerging Changes and Perspectives' organized by the Centre for Development Studies, TISS, Mumbai, August 29-30, 2011.

Sanjukta Sattar (2011). *'Rural Tourism in Sikkim'*. Presented at National Seminar on 'Natural Resource Management' organized by the Department of Geography, the University of Calcutta, March 10-11, 2011.

Sanjukta Sattar (2010). *'Tourism and Regional Development in Sikkim'*. Presented at International Conference on 'Environment, Resource and Regional Development' organized by the Department of Geography, the University of Burdwan, March 8-9, 2010.

Sanjukta Sattar (2009). *'Social Exclusion and Muslims in Kolkata'*. Presented at the national Seminar on 'Socio-economic and Educational Status of Muslims in Maharashtra' held at Tata Institute of Social Sciences, December 21-22, 2009.

Sanjukta Sattar (2007). 'Poverty Alleviation and Tourism Development in Sikkim'. Presented at International Seminar on 'Poverty and Development in South Asia', organized by Department of Geography, University of Calcutta, January 11-13, 2007.

Sanjukta Sattar (2005). 'Tourism and Environment: A Study of the Relationship'. Presented at National Seminar on 'Applied Geography & Application of Remote Sensing and GIS', organized by Department of Geography, University of Calcutta, February 4-6, 2005.

Sanjukta Sattar (2000). 'Sustainable Development of Tourism in Mountain Environment'. Presented at Regional Science Conference, Kolkata, November 17-18, 2000.

### **Invited Lectures**

"Transport Planning & Urban Mobility: A Study of Mumbai Metropolitan Region" in "7Days Special Lecture Series", on 04<sup>th</sup> January 2024, organized by the Post- Graduate Department of Geography and Geoinformatics, Nagindas Khandwala College, Mumbai, during January 2-8, 2024.

"Transport Planning and Regional Development: the Case of Mumbai" in Refresher Course on Regional Development and Planning (virtual mode) on  $16^{th}$  December 2023, organized by UGC – Malaviya Mission Teacher Training Centre (MMTTC), University of Calcutta, during December 4 – 17, 2023.

*"Advances in Population Geography"*, in PhD Course work between 1<sup>st</sup> August to 7<sup>th</sup> September, 2022, organized by Ahmednagar College, Ahmednagar, on 24<sup>th</sup> August,2022 from 4:00pm to 6:00 pm.

"Interview Techniques & Focus Group Discussion" in Indian Council of Social Science Research sponsored Ten Days Research Methodology Course for M.Phil/ PhD/ PDF Scholars in Social Sciences, 7<sup>th</sup> March -17<sup>th</sup> March 2022, organized by SNDT Women's University, Department of Geography, Pune.

"Data Sources, Data in Social Science Research" in Indian Council of Social Science Research sponsored Ten Days Research Methodology Course for M.Phil/ PhD/ PDF Scholars in Social Sciences, 7<sup>th</sup> March -17<sup>th</sup> March 2022, organized by SNDT Women's University, Department of Geography, Pune.

"Collection of Primary Data: Techniques and Significance" at National Workshop on Research Methodology in Geography, 4<sup>th</sup> October -11<sup>th</sup> October 2021, organized by Devrukh Shishan Prasarak Mandal's Nya Tatyasaheb Athalye Arts, Ved.S.R.Sapre Commerce and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh, held online on Wednesday, October 20, 2021,

"Different Facets of River Tourism: Its role and significance" at Two-Day International Webinar on "River and Changing Riverine Ecosystem", 25<sup>th</sup> -26<sup>th</sup> September 2021, organized by Foundation of Practising Geographers, Kolkata, on 25<sup>th</sup> September 2021.

"People Development and Environment" as resource person at the NET/SET/PET workshop organized by Department of Philosophy, University of Mumbai, 16<sup>th</sup> & 17<sup>th</sup> July 2020.

"Travel and tourism Post COVID-19: A New Beginning?" at National Webinar on "Changing Geographies: Living with COVID-19" organized by Department of Geography, St. Xavier's College, Burdwan, West Bengal, India, on 08<sup>th</sup> June 2020.

"Geographical Thought" as resource person for Webinar on NET/SET Preparation organized by Geography Alumni Association, University of Mumbai in collaboration with Department of Geography, University of Mumbai on 19<sup>th</sup> & 20<sup>th</sup> May 2020.

"People Development and Environment" as resource person at the NET/SET/PET workshop organized by Department of Philosophy, University of Mumbai, 22<sup>nd</sup> February & 2<sup>nd</sup> March 2020.

"People Development and Environment" as resource person at the NET/SET/PET workshop organized by Department of Philosophy, University of Mumbai, 14<sup>th</sup> & 19<sup>th</sup>October 2019.

"Tourism as a Sustainable Livelihood Approach: A Case of Sikkim" as resource person in Refresher Course on Social Sciences (Interdisciplinary) on the theme "Contemporary Issues in

Social Sciences" organized by UGC Human Resource Development Centre, University of Mumbai, on 05 September 2018, Mumbai.

"Research in Cultural Geography and its Relevance" at National Seminar on Recent Trends in Human Geography, organized by Department of Geography, Savitribai Phule Pune University, on September 22-23, 2017, Pune, Maharashtra.

"Women and Environment" at UGC Sponsored National Seminar on 'Women Empowerment: A Third World Perspective' organized by Sivnath Sastri College, Kolkata held on September 05, 2016, Kolkata.

"Culture, Creativity and Tourism: A Study of Sikkim" at International Conference on Cultural Heritage of Sikkim, organized by Department of Anthropology, Sikkim University in collaboration with Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, Madhya Pradesh, on 25 April 2015-27April, 2015, Gangtok, Sikkim.

# **SEMINAR/ WORKSHOP PARTICIPATION**

Wiley Advanced Webinar Series, Session 3: Ace Statistical Thinking for Research, September 07, 2022.

UGC Sponsored Online Workshop on NEP 2020 on Four Year Degree Programme with Multiple Entry and Exit and Pursuing two Academic Programmes Simultaneously and Twining/Dual/Joint Degrees" organized by UGC Human Resource Development Centre, University of Mumbai, held on July 18, 2022.

**4** Day Faculty Development Programme & online Workshop on MOODLE Learning Management System organized by IQAC, University of Mumbai from 11 May 2020 to 14 May 2020.

'Archaeobroma – Archaeology, Sociology, History & Ethnography of Food' organized by Centre For Archaeology, Centre For Extra-Mural Studies, University of Mumbai, INSTUCEN Trust, at University of Mumbai, Kalina, Mumbai, on 5-6 May 2018.

Two-day National Seminar on 'Challenges to Minority Women's Rights and Development in Maharashtra' organized by Tata Institute of Social Sciences (TISS), Deonar, Mumbai, and Minorities Development Department, Government of Maharashtra, Mumbai at TISS, Mumbai on 25-26 March 2016.

National Seminar on 'Status of Social Science Research in Western India: Critical Engagement and Future Direction', organized by Western Regional Centre Indian Council of Social Science Research, Mumbai, on  $14^{\rm th}-16^{\rm th}$  November, 2014

International Seminar on 'Muslim Situation in India: Contemporary Questions', Jointly organized by Centre for Studies in Social Sciences (CSSS), Kolkata, and ICSSR Eastern Regional Centre on February 24-26, 2010.

National Seminar on 'Recent Changes in Deltaic Environment', organized by Department of Geography, University of Calcutta, March 14-15, 2008.

UGC Sponsored Seminar on 'Hazard Perception and Disaster Management with Special Reference to India' organized by Sivanath Sastri College, Kolkata, March 18, 2006.

National Seminar cum Workshop on *'Contemporary Issues in Geography'*, organized by Department of Geography, University of Calcutta, September 31 and October 1, 2005.

Workshop on 'Environmental Studies- Teaching and Assessment', organized by Academic Staff College, University of Calcutta, March 2, 2001.

UGC sponsored two-day seminar on 'Environment Studies in Collegiate Education', organized by Bangabasi College of Commerce, Kolkata, September 23-24, 2000.

XVIII INCA International Congress, organized by INCA and NATMO on December 15-18, 1998, Science City, Kolkata.

INCA Pre-congress Seminar on GIS, organized by INCA and NATMO on December 13-14, 1998, NATMO, Kolkata.

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