

CURRICULUM VITAE

Dr. Mahadev Bera

B.Sc. (Hons), M.Sc., Ph.D.

Teaching and Research Assistant

School of Environment and Disaster Management

IRDM Faculty Centre, RKMVERI, Kolkata-103



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EDUCATIONAL QUALIFICATION

Ph.D.

2018-2022

(Thesis submitted on

17th December 2021;

Awarded on

27th June 2022)

Institute:

IRDM Faculty Centre, Ramakrishna Mission Vivekananda
Educational and Research Institute, Narendrapur, Kolkata:
700103

Department/Subject: Environment and Disaster Management

Title of Thesis: Aspects of Bioclimate: Rural and Semi-urban Community
Environment

Supervisor: Prof. Pranab Kumar Nag
Ph.D., D.Sc.
Swami Vivekananda Chair Professor
School of Environment and Disaster Management
IRDM Faculty Centre, RKMVERI, Kolkata: 700103

M.Sc.

2012-2014

Institute: Presidency University, Kolkata

Department/Subject: Environmental System Management
(Passed with 1st Class)

Title of Dissertation: Assessment of Salinity and Extent of Sea Water Ingression in
Sundarban Coastal Province: A Ground Exemplar from
Patharpratima Island Block, 24 Parganas (South), West Bengal

Supervisor: Dr. S. Chakraborty,
Assistant Professor
School of Environmental System Management
Presidency University, Kolkata

B.Sc. (Hons) **2009-2012**

Institute: University of Calcutta

Department/Subject: Environmental Science (Hons), Chemistry and Botany (Minor)
(Passed with 1st Class)

Higher Secondary **2009**

Board: WBCHSE

Subject: English, Bengali, Mathematics, Physics, Chemistry, Biology
(Passed with 1st Division)

Secondary **2007**

Board: WBBSE
(Passed with 1st Division*)

PERSONAL INFORMATION

Father Name: Aviram Bera

Date of Birth: 2nd February 1990

Nationality: Indian

Category: General

Gender: Male

Aadhar No: 5801 1419 1736

ADDRESS FOR COMMUNICATION

Address for communication (Permanent) - Vill. + P.O.: Achintyanagar, P.S.:
Patharpratima, Dist.: South 24 Parganas, Pin: 743383

Present address: C/O: Barun Kumar Bera, Kamrabad, Saratsarani,
Bankplot, Sonarpur, Kolkata: 700150

PUBLICATION

1. Bera, M., & Nag, P.K. (2022). Bioclimatic Design of Low-cost Rural Dwellings. *Frontiers in Built Environment*, 8, 773108. DOI: 10.3389/fbuil.2022.773108. (*Scopus, IF: 2.56*)
2. Bera, M., Bose, P., & Nag, P.K. (2022). Household Carbon Footprint: Rural and Urban Community. *Journal of Ecology and Natural Resources*, 6(2), 00278. DOI: 10.23880/jenr-16000278. (*IF: 2.454*)
3. Bera, M., & Nag, P.K. (2021). Bioclimate in Built Environment. *Ergonomics International Journal*, 5(5), 000277. DOI: 10.23880/eoij-16000277. (*IF: 1.9568*)
4. Bera, M., & Nag, P.K. Bioclimatic Strategies of the Built Environment: An Overview. *International Journal of Environment and Climate Change* (Accepted). (*NAAS, IF: 5.13*)
5. Bera, M., & Nag, P.K. Bioclimatic Performance Analysis of Coastal Low-cost Dwellings. *Environmental Monitoring and Assessment* (Under Review). (*Scopus, IF: 3.307*)
6. Bera, M., & Nag, P.K. Energy Performance of Low-cost Rural Dwellings: An Analysis of Bioclimatic Aspects. *Building and Environment* (Under Review). (*Scopus, IF: 7.093*)

GUIDANCE OF M.Sc. STUDENTS DISSERTATION PROJECT

1. Paulomee Bose (Reg. No: N1930009), School of Environment and Disaster Management, RKMVERI, 2021 (**Title: Household Carbon Footprint: Rural and Semi-urban Settings**)
2. Rittika Dasgupta (Reg. No: N1930005), School of Environment and Disaster Management, RKMVERI, 2021 (**Title: Concepts and Criteria in Sustainable Buildings: Urban and Semi-urban communities**)
3. Suparna Banerjee (Reg. No.: N1930016), School of Environment and Disaster Management, RKMVERI, 2021 (**Title: Indoor Environmental Quality of Rural Settings**)

EMPLOYMENT DETAILS

- Teaching and Research Assistant, School of Environment and Disaster Management, IRDM Faculty Centre, RKMVERI, Kolkata-700103 (**3rd May to Present**)
- Project Manager, Nature Environment and Wildlife Society (*sponsored by Terre des hommes, Germany*) (**20 January, 2022 to 2nd May 2023**)

TEACHING EXPERIENCE

- ❖ Taught and support the M.Sc. Students, School of Environment and Disaster Management, IRDM Faculty Centre, RKMVERI, Narendrapur, Kolkata: 700103 (**July, 2018 to December, 2021**).
 - Environmental Regulation and Standard
 - Water quality monitoring and wastewater treatment
 - Environment, health and safety management system
 - Energy and environment
- ❖ Taught compulsory Environmental Studies – Department of Sanskrit, RKMVERI, Belur (**May 2018 to June 2019**).
- ❖ Appointed as an examiner for Environmental Studies related papers of integrated MA Sanskrit (3 years BA Hons + 2 years MA) Semester Examination June 2019, Dept. of Sanskrit, RKMVERI, Belur.

RESEARCH INTEREST

- Climate change and human vulnerability;
- Bioclimate aspects, design, and strategies;
- Building environmental performance;
- Indoor environmental quality and thermal comfort;
- Energy and environment

TEACHING INTEREST

- Climate Change;
- Thermal comfort and different heat stress indices;
- Energy and Environment;
- Environmental policy, law and regulation;
- Environmental impact assessment;
- Environmental system management

SOFTWARE AND COMPUTER SKILL

Climate Consultant 6.0 (tool used for find out the appropriate passive design strategies to achieve the maximum comfort in the building); IBM-SPSS; MS-Excel; DreamPlan Home Design Software; HEED (Home Energy Efficient Design); RayMan Pro (Tool used for assessment of different heat stress indices), NVivo, RAX

PRACTICAL KNOWLEDGE

Air quality analysis: PM 2.5, 10, VOCs, CO₂

Climatic data analysis: Temperature, Relative humidity calculation, heat indices calculation (PMV, PET, SET, mPET, UTCI, PI, WBGT)

Statistical analysis: ANOVA, t-test, Chi-square test, PCA

PARTICIPATED IN FACULTY DEVELOPMENT PROGRAM

1. Participated in Five days AICTE Training and Learning (ATAL) Academy online Faculty Development Program (FDP) on "Research and Innovation for Growth" from 23rd August 2021 to 27th August 2021, organized by BNM Institute of Technology
2. Participated in IGBC's online Faculty Development Program (FDP) on "Green Building and Build Environment" held from 2nd to 6th August 2021, organized by Indian Green Building Council
3. Participated in Five days AICTE Training and Learning (ATAL) Academy online Faculty Development Program (FDP) on "Capacity Building Program" from 14th Dec 2020 to 18th Dec 2020, organized by National Institute of Technology, Patna
4. Participated in Five days AICTE Training and Learning (ATAL) Academy Online Faculty Development Program (FDP) on "Green Technology & Sustainability Engineering" from 16th Nov 2020 to 20th Nov 2020, organized by Gandhi Institute of Technology and Management, Gitam Off Campus, Bengaluru
5. Participated in International E- Faculty Development Program(E-FDP) on "Research Indicators, Resources, Plagiarism, and Academic Integrity" held from 22nd to 26th June 2020 organized by the knowledge Resources Center of Patrician College of Arts and Science, Chennai, Tamil Nadu, India
6. Participated in six days Capacity Building Program (CBP) on "Basics of Research Methods and Techniques" held from 17th to 22nd August 2020 organized by Dept. of Management Studies, GL Bajaj Educational Intuitions, Greater Noida, UP

PARTICIPATED IN WORKSHOP/SEMINAR/WEBINAR

1. Presented paper "Bioclimatic Aspects of Rural and Semi-urban Community Environment" in National Seminar held on 31st March 2022 (Science and Technology for Sustainable Development with Women Empowerment) organized by Patharpratima College, South 24 Parganas
2. Participated in "European Commission ERASMUS + TUTORIAL Meeting" held on 23rd and 24th January 2020, organized by School of Environment and Disaster Management, Ramakrishna Mission Vivekananda Educational and Research Institute.

3. Participated One day Nation level Webinar on “Multi-disciplinary approach of environmental research and its benefit sharing towards society” held on 7th June 2021, organized by CERED
4. Participated in World Environment Day Webinar on “Ecosystem Restoration” held on 5th June 2021, organized by Society for Clean Environment in association with IIT Bombay and D.G. Ruparel College and SAGE, Mumbai
5. Participated in the two days National Webinar on “Mining Environment” during 14-15th December organized by IIT(ISM) ENVIS Centre-RP, Department of Environmental Science and Engineering, Indian Institute of Technology (ISM), Dhanbad
6. Participated in the international Webinar on “Ethics in Research” held on 22nd June 2020, organized by Dept. of Management Studies, B.V.V.Sangha's Basaveshwar Engineering College (Autonomous), Bagalkot, Karnataka, India
7. Participated in the international Webinar on “Inclusive Education: Reaching the Unreached” held on 27th June 2020, organized by State Council of Educational Research Training (SCERT), New Delhi, India
8. Participated in the International Workshop on “How to use AI-powered tool RAX for Research” held on 20th September 2020, organized by Dayanand Brijendra Swaroop Postgraduate College Dehradun, Uttarakhand, India
9. Participated in the international E-Conference “Reciprocal interfaces of Literature and Social Sciences” organized by the Departments of Languages and Social Sciences, Ismail Yusuf College of Arts, Science & Commerce, Jogeshwari East, Mumbai - 60 held on 23rd, 24th and 25th June 2020
10. Participated in the Three Days Workshop on “Publishing Ethics and Research Methodology” organized by Dr. B. R. Ambedkar Central Library, Jawaharlal Nehru University, New Delhi, from Aug 12 - 14th, 2020
11. Participated in the Workshop on “Research Methodology and Hypothesis (Beginners)” held on 14th June 2020, organized by Academic Research Practices
12. Participated in the Webinar on “Benefits and Implementation of ISO 50001-2018” held on 3rd October 2020, organized by Industrial Waste Management Association (IWMA), Chennai, Tamil Nadu, India
13. Participated in the Webinar on “Achieving Excellence in Resource Efficiency Through- GreenCo Rating” held on 27th June 2020, organized by Industrial Waste Management Association (IWMA), Chennai, Tamil Nadu, India
14. Participated in National Webinar on “Aspects of Biodiversity and climate change Issues in present Scenario” held on 3rd September 2020, organized by Netaji Nagar day college, Kolkata
15. Participated in the international Webinar on “Global Climate Change: Evidences, Causes, Effects and Solutions” held during 5th-7th July 2020, organized by the Department of Botany, Ewing Christian college (University of Allahabad), Prayagraj, India
16. Participated in the international Webinar on “Impact of climate change on rural

- livelihood: A geographical overview” held on 27th September 2020 organized by Sambhu Nath College, Labpur, Birbhum, West Bengal, India.
17. Participated in the international Webinar on “Mathematical Applications in Human Cognition and Neuroscience” held on 16th September 2020, organized by Department of Mathematics, Assam Don Bosco University, Guwahati, Assam, India
 18. Participated in the Workshop on “Virtual workshop on the implications of Environment Impact Assessment 2020” held on 18th August 2020, organized by the Department of Economics, Malabar Christian College, Calicut, Kerala.
 19. Participated in the Webinar on “Introduction to Intellectual Property Rights Concept and Cases” held on 11th July 2020, jointly organized By Rukmini Devi Institute of Advanced Studies Delhi and Department of Management Studies, National Institute of Technology, Silchar.
 20. Participated in the Webinar on “World Environment Day” (Theme: Time for Nature) held on the occasion of World Environment Day (5th June 2020) organized by JNU-ENVIS Resource Partner on Geodiversity & Impact on Environment.
 21. Participated in the Webinar on “Global Tiger Day” held on 29th July 2020, organized by School of Environmental Science, JNU-ENVIS Resource Partner on Geodiversity & Impact on Environment.
 22. Participated in the Webinar on” World Ozone Day-2020” (Theme: Ozone for life) held on 16th September 2020, organized by Jawaharlal Nehru University.
 23. Participated in National Webinar on “Literature: Plight and Portrayal” held on 29th June 2020, organized by Smt. Ram Piari Aggarwal Adarsh Bhartiya College, Pathankot.
 24. Participated in the National Webinar on” Solid Waste Management and Garbage free India During pandemic COVID 19” held on 4th September 2020 organized by National Service Scheme, Atal Behari Vajpayee Vishwavidyalaya, Bilaspur and Chaitanya College, Pamgarh.
 25. Participated in the International Webinar on” Biological Science” held during 20th-22nd June 2020, organized by PG and Research Department of Zoology, Rajah Serfoji Government College, Tamilnadu, India.
 26. International Webinar on “COVID-19: Challenges and opportunities for Sustainable Environmental Development” held during 5-7th June 2020, organized by Dept. of Environmental Science, ASK University, Satna.
 27. Participated in National Webinar on “Leadership perspectives from history” held on 24th June 2020, organized by Dept. of Management Studies, B.V.V. Sangha’s Basaveshwar Engineering College (Autonomous) Bagalkot, Karnataka, India.
 28. Participated in the two days program on “How to write a Research Paper” held during 20th -21st June 2020, organized by Matterhere.
 29. National Workshop on “Towards a greener environment concept, strategies and action plans” organized by Dept. of Sociology, Presidency University held on 26th

March 2013, Park hotel

30. UGC Sponsored National Seminar on Advance in Environmental Science and Technology, held on 5th and 6th February 2011, organized by Dept. of Environmental science and Dept. of chemistry, Vivekananda College, Thakurpukur, Kolkata-63.

Declaration:

I hereby declare that the above information is correct and genuine as per my record. I will be liable for any misstatement given by me.

Date: 13.05.2023

Mahadev Bera

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(Signature)