

Dr. Bal Krishan Choudhary
 Assistant Professor (Stage-III)
 Dept. of Environmental Sciences
 Ramthakur College, Agartala
 Tripura-799003
 9402168847
 bkmchoudhary@gmail.com



Web Links:

www.researchgate.net/profile/Balkrishan_Choudhary

https://scholar.google.com/citations?hl=en&user=SiNbv_EAAAAJ

Reviewer- Cogent Environmental Science (Taylor & Francis Group)

Reviewer- Journal of Forest and Environmental Science- Institute of Forest Science- KOREA.

Academic Qualifications:

Sl. No.	Examination Passed	Name of Institution/ University	Year of Passing	Specialization if any
1	Ph.D.	Tripura University, Agartala	2018	Science
2	M.Phil.	Jawaharlal Nehru University, New Delhi	2007	Environmental Science
3	M.Sc.	Jawaharlal Nehru University, New Delhi	2005	Environmental Science
4	B.Sc (H).	BVU, Hazaribagh, Jharkhand	2003	Botany (Hons.) Chemistry, Zoology
5	HS+2stage	AISSE, CBSE, BISSS 9E, Bokaro Steel City, Jharkhand	1999	Science
6	Madhyamik (HS)	CBSE, BIV, 9C, Bokaro Steel City, Jharkhand	1997	All Allied Subjects

Research Experiences

Sl. No.	Post Held	Title of the Research	Department	Period
1	PG - Student	<i>Abundance of Mycorrhizal Spores in relation to physico-chemical properties of Soil</i>	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.	2005
2	M.Phil. JRF & SRF	<i>Impact of Land use intensification on Soil Organic Carbon and Nutrient pools: A case study of Dhaulagi village, Tehri Garhwal</i>	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.	2005-2007
3	Ph.D.	<i>Ecological characteristics of some selected land use land cover systems of Tripura, India.</i>	Department of Botany, Tripura University	2012-2018

Research papers published in Refereed Journals with ISSN :

1. **Bal Krishan Choudhary**, Mustafa Ali Khan and K. G. Saxena (2010). Mycorrhizal spore density in relation to Physico-chemical properties of soil. *Environ. We Int. J. Sci. Tech.* 5 243-251.ISSN: 0975-7120 (Online).
2. Uma Sarkar, **Bal Krishan Choudhary** and Bipin Kumar Sharma (2014).Vascular Arbuscular Mycorrhizal (VAM) Spore Diversity and Density across the Soil of Degraded Forest and Rubber Plantation in Tripura, India. *American-Eurasian J. Agric. & Environ. Sci.*, 14 (10): 1080-1088.
3. **Bal Krishan Choudhary** (2014). Environmental Constrains and Sustainability in Tripura. *Tripura Journal of Social Science*. Vol-II, ISSN. 2357-5854.
4. A. Majumder, S. Datta, **Bal Krishan Choudhary** and Koushik Majumdar (2014) Do Extensive Rubber Plantation Influences Local Environment? A Case Study from Tripura, Northeast India. *Current World Environment* Vol. 9(3) 768-779.
5. **Bal Krishan Choudhary** and Krishna Gopal Saxena (2015).An Assessment of Soil Organic Carbon, Total Nitrogen and Tree Biomass in Land Uses of a Village Landscape of Central Himalaya, India. *Global Journal of Environmental Research*. 9 (3): 27-42, 2015.
6. Koushik Majumdar, **Bal Krishan Choudhary** & Badal Kumar Datta (2016). Changes of woody species diversity, horizontal and vertical distribution of stems across interior to outside within a primate rich habitat of Northeast India. *Journal of Forestry Research*. 27: 787. doi:10.1007/s11676-016-0231-4.(IF: 1.56)(Springer).
7. **Bal Krishan Choudhary**, Koushik Majumdar and B.K. Datta (2016). Effects of land use on the soil organic carbon storage potentiality and soil edaphic factors in Tripura, Northeast India. *American Journal of Climate Change*, 2016, 5, 417-429. <http://dx.doi.org/10.4236/ajcc.2016.53031>.
8. **Bal Krishan Choudhary**, Koushik Majumdar and B.K. Datta (2016). Tree Diversity and Ecosystem Carbon Stock Patterns Along Selected Land Use, Land Cover Systems in Tripura, Northeastern India. *International Journal of Ecology and Environmental Sciences* 42(S): 91-106, 2016.
9. Koushik Majumdar, **Bal Krishan Choudhary**, Badal Kumar Datta (2016) Aboveground Woody Biomass, Carbon Stocks Potential in Selected Tropical Forest Patches of Tripura, Northeast India. *Open Journal of Ecology*, 2016, 6, 598-612. <http://dx.doi.org/10.4236/oje.2016.610057>.
10. **Bal Krishan Choudhary**, Koushik Majumdar and B.K. Datta (2016). Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of

Rubber in Tripura, Northeastern India. [http://dx.doi.org /10.12944/CWE.11.3.10](http://dx.doi.org/10.12944/CWE.11.3.10).

11. Prem Chandra Pandey, Prashan K Shrivastava, Tilok Chetri, **Bal Krishan Choudhary** and Pawan Kumar. Forest Biomass estimation using remote sensing and field inventory: a case study of Tripura, India. *Environment Monitoring and Assessment* (2019):191-593. (IF: 2.86).(Springer).
12. **Bal Krishan Choudhary**, Koushik Majumdar and B.K. Datta (2019). Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India. *International Journal of Ecology and Environmental Sciences* 45 (3): 00-00, 2019 ISSN: 2320-5199 (Online).
13. Bishu Karmakar, Sudhir Kumar Singh and **Bal Krishan Choudhary** (2021). Investigation of the hydrogeochemistry, groundwater quality and associated health risks in industrialized regions of Tripura, northeast India. *International Journal of Environmental Studies* (Under review: ID214021442); *Taylor and Francis*. (IF: 1.26).
14. Mmasabata Dolly Molekoa; Pankaj Kumar; **Bal Krishan Choudhary**; Ali P. Yunus; Ali Kharrazi; Khaled Mohamed Khedher; Tarun Yadav; Tonni Agustiono Kurniawan; Ram Avtar (2021) Spatio-temporal variations in the water quality of the Doorndraai Dam, South Africa: An assessment of sustainable water resource management. *Applied Water Science* (Under Review) (IF: 2.81).

Book/Book Chapters/Proceeding having ISBN:

1. **Bal Krishan Choudhary** (2012). Biological diversity, Environmental ethics and traditional Ecological Knowledge: concerns in North East India: In R. Mondal (Eds.) *Biodiversity and Ecology*. Discovery Publishing House Pvt. Lt D. ISBN: 978-93-5056-152-2.
2. **Bal Krishan Choudhary**, Koushik Majumdar & Subrata Deb. (2016). An overview of application of Nanotechnology in Environmental Restoration: In S. Deb et al. (Eds) *Proceeding of the "National Conference on Recent trends in Physics"*. Moumita Publications, Agartala. ISBN 978-93-81631-38-6.
3. Biswajit Sutradhar, **Bal Krishan Choudhary**, Koushik Majumdar & Badal Kumar Datta (2018). Soil Nutrients and Plant Association Analysis Under Different Habitats of a Threatened Carnivorous Plant *Drosera burmannii*.Vahl, in Tripura, northeast India: In S. Sinha & R Sinha (Eds.) "Recent Trends in Frontal Areas of Plant Science Research". Narosa Publishing House, Mumbai.ISBN-978-81-8487-605-5., 308 pages.
4. **Bal Krishan Choudhary**, Puneeta Pandey, R. K. Kohli, V V Garg and Ashok

Dhawan (2017). Application of Remote Sensing & GIS in Land Resource Management. Course Module for E-PG Pathsala, Published by MHRD & UGC.(online) .Module ID.EVS/RSGIS-EVS/29.Paper No:6.

5. **Bal Krishan Choudhary**, Puneeta Pandey, R. K. Kohli, V V Garg and Ashok Dhawan (2017). Application of Remote Sensing & GIS application in Conservation of resources. Course Module for E-PG Pathsala, Published by MHRD & UGC.(online) .Module ID.EVS/RSGIS-EVS/38 .Paper No:6.
6. **Bal Krishan Choudhary**, Puneeta Pandey, R. K. Kohli, V V Garg and Ashok Dhawan (2017). Application of Remote Sensing & GIS application in Wasteland mapping. Course Module for E-PG Pathsala, published by MHRD & UGC.(online) .Module ID.EVS/RSGIS-EVS/37.Paper No:6.
7. Koushik Majumdar, **Bal Krishan Choudhary**, & Badal Kumar Datta. Impact of disturbance on ecosystem stability: implication for indigenous tree species management along the protected reserve and unprotected village forests in Tripura, Northeast India. (Accepted as Book Chapter).
8. **Bal Krishan Choudhary**, Koushik Majumdar and Badal Kumar Datta. Status of soil organic carbon and nutrient pool in the tea plantation ecosystem of Tripura, India. (Accepted as Book Chapter in Proceeding of National Seminar).
9. **Bal Krishan Choudhary**, Koushik Majumdar and Badal Kumar Datta. A preliminary Assessment of Ecological Services and Functions in Tripura: India. In Book: Environmental Administration concepts, issues and challenges, BR Publishing Corporation, New Delhi. ISBN: 13:978-93-88789-011. (March 2019).
10. **Bal Krishan Choudhary**, Koushik Majumdar & Badal Kumar Datta. Women Environment Interaction and Traditional Ecological Knowledge: concerns in Mountain Region. In book: Livelihood and sustainable development in north-east India. Concept Publishing Company, New Delhi. ISBN: 13:978-93-86682-56-7.(March-2019).

Training:

1. Attended UGC sponsored "*Orientation Course*" at The University of Burdwan, West Bengal, Dated 08 May to 4th July 2010.
2. Attended UGC sponsored "*Refresher Course*" in Environmental Sciences at Jawaharlal Nehru University, New Delhi; Date 04-28th March 2013.
3. Training on "*National Disaster Risk Management -Comprehensive Disaster Risk Management Framework*" conducted by The World Bank Institute in partnership with the National Institute of Disaster Management, New Delhi. Dated Jan- 7 -Feb 17, 2008.
4. Training programme on "*Environment awareness*" at Agartala, organized by

- SIPARD (State Institute of Public Administration and Rural Development) -August, 30th , 2010
5. Training programme of *“National Drinking water Quality Monitoring and Surveillance programme (NRDWQM & SP)”* at Kumarghat, organized by PWD, Govt. of Tripura, Dated August, 8th, 2008.
 6. State level *“Training of field investigators on documentation assessment and promotion of local health traditions in Tripura”*, organized by NEIFM, IAIM and Department of Botany, Tripura University, February, 18th -25th , 2012.
 7. Training Workshop on *“SPSS Statistical Software”*. Ambedkar College, Tripura, sponsored by Indian Council for Social Science and Research, Shillong, Dated 24 to 30th July, 2014.
 8. Hands on *“Training on Molecular Biology Techniques”* Organized by College of Fisheries, Lembucherra, Agartala. Department of Biotechnology, Govt. of India, Dated 22nd -25th 2014.
 9. Actively participated and contributed to the *“Conservation Assessment and Management Prioritization (CAMP)”* process using IUCN Red list categories and criteria, for the wild medicinal plants of Tripura, held during 3rd to 5th August 2016 at Agartala, Tripura.
 10. Participated in National Level Training Programme on Medicinal and Aromatic Plant Diversity, Utilisation and their conservation, sponsored by National Medicinal Plant Board, Dated 1 to 10th June 2021.
 11. Attended and successfully completed NRDMS- DST sponsored *“Winter School on Geospatial Technologies (Level-1)* conducted from 29th November to 19th December 2019 in the Department of Civil Engineering, NIT, Agartala.
 12. Attended and successfully completed One Week (23/07/2020 to 29/7/2020) *“95th Online Short Term Course on E-Content Development”* during organised by UGC-Human Resource Development Centre, Gujarat University, Ahmedabad.
 13. Attended and successfully completed One week (August 18-August 25, 2020) online Faculty Development Programme on *“ICT ENHANCE TEACHING LEARNING AND CREATING MOOCs*, organised by MHRD & Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Teaching Learning Centre, Ramanujam College, University of Delhi and Shivaji College, University of Delhi.
 14. Attended and successfully completed One week (15-21 September, 2020) online Workshop on *“Online Teaching Tools& Development of E-Contents*, organised by

Internal Quality Assurance Cell, Women's College, Agartala.

15. Participated in the 05 days national e_WORKSHOP on LINUX FUNDAMENTALS (NWLIF-2020), organised by Department of Information Technology, Women's College, Agartala, Tripura from 3rd to 8th December, 2020.

Co-curricular activities:

1. Participated National Symposium on "Searching Missing Links of Conservation and Management for Sustainable Development of the Environment" held on 2nd February, 2007 at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.
2. Completed web based certificate course on "National Disaster Risk Management - Comprehensive Disaster Risk Management Framework" (Jan- 7 -Feb 17, 2008) provided by The World Bank Institute in partnership with the National Institute of Disaster Management, New Delhi.
3. Participated in the Workshop on "Orientation Programme for Academicians of Government Degree College of Tripura" held during July 25-27, 2008 Agartala. Organized by IGNOU in Collaboration with DHE (Higher), Govt. of Tripura.
4. Participated and successfully completed training programme of "National Drinking water Quality Monitoring and Surveillance programme (NRDWQM & SP)" on 13/08/2008 at conference Hall of P.W.D office Complex, Kumarghat, North Tripura.
5. Participated in the "Orientation Programme for Partner Institutions under Convergence Scheme", IGNOU at Tripura University, Suryamaninagar held on 24th Nov, 2008.
6. Participated in the 3rd Tripura State Level NSS Festival, Agartala: 25-27 February 2009 Organized by State NSS Cell, Department of Education (YAS), Govt. of Tripura.

Conference

1. Presented paper entitled "*Changes in plant diversity and ecosystem carbon stock along natural forests, plantations and Jhum fallow in Tripura, Northeast India*" in Tropical Ecological Congress, 2014. JNU, New Delhi. 10-12 December, 2014.

Seminar

1. Presented paper entitled "Environmental Issue and Human Rights in north east India" in National Seminar on " Human Rights in North East India- Issue and Challenges, sponsored by National Human Rights Commission, New Delhi and organized by Ramakrishna Mahavidyalaya, Kailashahar, Tripura , Dated 3rd

January 2010

2. Presented paper entitled "Women and Environment: Concerns in Mountain Region" in Indian Council of Philosophical Research (ICPR) sponsored National Seminar on "Development, freedom, power and justice" organized by Karimganj College, Assam Dated 13th- 14th February 2010.
3. Organized Seminar on "Gender Equity For Prosperity With Peace" sponsored by Tripura State Council for Science and Technology, Agartala and organized by Science Forum of Ambedkar College, Fatikroy, Tripura, 12th March 2010
4. National seminar cum Workshop on "Bamboo Cultivation and Resource Utilization" Bamboo Cultivation and Resource Utilisation, Department of Botany, Tripura University. March, 2nd -6th, 2013.
5. Attended National seminar on "Emerging Environmental Issues in Today's Society with special reference to Northeast India" Agartala, Department of Environmental Science, BBM College, Tripura. February, 22-23rd, 2014.
6. Presented paper entitled "Status of ecosystem carbon stocks along the protected and unprotected land uses in Tripura, Northeast India", in National Seminar on "Contemporary Researches in Frontal Areas of Plant Sciences" sponsored by UGC-SAP (DRS-I) and organised by Department of Botany Tripura University dated 17th and 18th March, 2015.
7. Presented paper entitled "Phytosociology and carbon stock contribution of different trees species in Tripura, Northeast India. ", in National Seminar on "Biodiversity and Sustainable Development" organized by Tripura Biodiversity Board & Department of Botany, Tripura University dated 25th and 26th May, 2015.
8. Presented paper entitled "Potential changes of carbon sequestration and edaphic properties along the plantation age of rubber in Tripura, Northeast India. ", in National Seminar on "Recent Trend in Plant Science Research" organized by Tripura Biodiversity Board & Department of Botany, Tripura University dated 15th and 16th March, 2016.
9. Participated in the CSE's first Regional Conclave, 24 and 25 August, 2017 in Kolkata for Colleges and Universities, organised by Centre for Science and Environment (CSE), New Delhi.
10. Presented paper entitled "A preliminary assessment of ecological services and functions in Tripura, India", organised by Department of Public Administration, MBB University, Agartala, dated 8-9th March, 2018.
11. Participated in National Seminar entitled " Tribal Youth in Tripura: Issue and

Challenges and Perspectives”, organised by Department of Sociology, Women’s College, Agartala, dated 7th and 8th April 2018.

Symposium

1. National Symposium on “Searching Missing Links of Conservation and Management for Sustainable Development of the Environment” at Jawaharlal Nehru University, New Delhi, organized by School of Environmental Sciences 2nd February, 2007.

Workshop

1. Workshop on “Orientation Programme for Academicians of Government Degree College of Tripura” at Agartala, organized by IGNOU in Collaboration with DHE (Higher), Govt. of Tripura. July 25-27, 2008.
2. Workshop on “Orientation Programme for Partner Institutions under Convergence Scheme” in Tripura University, Suryamaninagar and IGNOU, November, 24th, 2008.
3. The 3rd Tripura State Level NSS Festival, Agartala; State NSS Cell, Department of Education (YAS), Govt. of Tripura. Dated February, 25-27th, 2009.
4. Workshop on “Syllabus preparation for Undergraduate Courses (TDC & TDCH)” Tripura University 21st March, 2009.
5. Workshop on “Application of Bioinformatics in Biological Sciences”. SIPARD, Agartala Department of Science, Technology & Environment. Govt. of Tripura. Dated 19th -20th September, 2014.
6. Workshop on Computer awareness programme on operating Windows, Linux and Internet, Organised by Department of Information Technology, Women’s College, Agartala, Dated 16th & 17th January, 2016.
7. Participated in the regional workshop entitled “National Information system for climate and Environmental studies (NICES), organised by National Remote Sensing Centre (NRSC), ISRO and National Institute of Technology on 5th February, 2018.
8. Participated in 100 Hours duration training programme titled “Information Technology and Digital Services” organised at Women’s College, Agartala and imparted by National Institutes of Electronics and Information Technology (NIELIT), Govt. of India, dated 20/08/2018 to 07/09/2018.
9. Participated in the Awareness Programme on Environmental Hazards of E-Waste conducted at NIELIT, Agartala on 15-16th December 2018.

10. Organised workshop on “Skill Development and Hands-on Training on Bonsai Making” in the Women’s College, Agartala dated 31/03/2021.
11. Hosted the *Awareness Programme on E-Waste management* in the Department of Environmental Science, in Collaboration with Ministry of Electronics and Information Technology, Government of India.
12. Organised World Environment Day 2017 and Theme was “Say No to Plastics” in collaboration with DST, Govt. of Tripura.
13. Former Co-ordinator, Women’s College, Agartala, DBT Star College Scheme, DBT, Govt. Of India.
14. Organised web based t *Awareness Programme on E-Waste and Plastic waste management* in the Ramthakur College, Agartala, dated 12-07-2021.

Membership/Fellowship of professional societies:

1. Member, BUGS, Tripura University, Suryamaninagar, Tripura.
2. Member, BUGS, MBB University, Agartala, Tripura
3. Counsellor cum Member (2016-2018) in Society for Environmental Development, India. An Organization under the Society Registration Act. XXXI of 1860, Govt. Of India.
4. Member, IUCN, UN, Commission on Ecosystem Management, 2017 onwards.

Invited Lecture

1. Delivered lecture on “*E-Waste management*” in the NSS special camp, organised by NSS unit of the Women’s College, Agartala on 7th February 2019.
2. Delivered Lecture on the “*Orientation to biodiversity conservation*” on 16/03/2019, organised by Tripura State Pollution Control Board at Parivesh Bhavan, Agartala, Tripura.
3. Delivered Lecture on the “*Water conservation*” on 09/07/2019, organised by NSS, Women’s College, Agartala, Tripura.
4. Delivered Lecture on the “*Vanmahotsav and Environmental Sustainability*” on 31/08/2020, organised by NSS, Women’s College, Agartala, Tripura.
5. Teaching the candidates under Green Skill Development Programme on Pollution Monitors: Air & Water Pollution at TSPCB, Agartala, Tripura.