

C.V. OF PROFESSOR M.P. SINHA



Dr Manoranjan P Sinha (14.10.1956), MSc (Gold Medallist), Ph.D., D.Sc., FAZ, FZSI, FNEA, a graduate from St Columba's College, Hazaribag, with Honours in Zoology, securing First Class First position in the University (1976), did his Master's degree in Zoology with specialization in Environmental Biology from Ranchi University (1980), Ranchi, securing first position in the University. He obtained the PhD degree from Ranchi University on aquatic organic pollution (1985) and also D.Sc. Degree from Ranchi University on 'Niche Relation among Benthic Organisms' in 1997. Dr Sinha was University Professor in Department of Zoology, Ranchi University, prior to the present assignment of ProVice-Chancellor and is credited with successfully guiding 25 research scholars leading to Ph D degree, 5 leading to M Phil and for publication of more than 200 original research papers in reputed national and international journals (citation indices more than 1100, H index 8), more than 20 popular articles and 9 books.

He served as Deputy Director and Director In-Charge of Academic Staff College, Ranchi University effectively and successfully apart from various academic post and assignments. He is member on the editorial boards of a number of national and international journals and Executive Editor of two international journals, *The Bioscan* (NAAS rating 4.57, Scientific Journal Impact Factor 2.925) and *The Ecoscan* (NAAS rating 5.06, Scientific Journal Impact Factor 2.662, Copernicus index 5.29).

Professor Sinha is Fellow, life member and member of a number of national and international organizations. He is also office bearer of many academic organizations. Professor Sinha is presently Secretary of National Environmentalists Association. He was actively associated with International Youth Federation for Environmental Studies and Conservation (IYF), Denmark for quite a long period. Professor Sinha has been involved in organizing a number of national and international seminars and conferences as member of National Advisory Board of the events and has chaired a number of sessions of different national and international conferences, seminars and symposia as well as delivered key-note addresses, plenary lectures, and invited lectures on different aspects of Life Sciences and Environmental Sciences. Dr Sinha has been invited to more than 50 universities, different UGC Academic Staff Colleges (ASCs) as well as the Indian Science Congress Association (thrice) to deliver lectures on different topics of Environmental Science.

Professor Sinha has been awarded National Merit Scholarship by the Government of India, as well as Promising Indian Zoologist/Environmental Scientist of the 20th Century Gold Medal, Senior Scientists Award, Ecologist of the Era award, etc by various organizations.

Professor Sinha has successfully handled good number of minor and major research projects sponsored by University Grants Commission. He has worked for Richardson and Cruddas as expert on base line data generation for Environmental Management. Professor Sinha is credited for doing consultancy apart from the research projects.

Considerable contribution has been made by Professor Sinha in the field of Nano- biotechnology through synthesis of nanoparticle mediated by plant extract and validation of its efficacy on animal model.

Professor Sinha is the first person in Jharkhand and one of a few in India to conduct research on the earthworm diversity of Jharkhand, soil bacteria in Jharkhand, on their population, their genomic analysis and identification, on impact of the nuisance weed Parthenium hysterophorus on consumer and decomposer community and mammalian model, on pharmacological potentiality of more than 30 medicinal plants of Jharkhand on animal model and preparation of green and white nanoparticles, their characterization and testing their impact. Dr. Sinha is one of a few academicians to get twining project of Department of Biotechnology, Govt. of India and is presently working as Principal Investigator in such project with Guwahati University .He is credited to getnetwork project and is also working as Principal Investigator for Jharkhand, Bihar and West Bengal sponsored by Department of Biotechnology, Govt of India.

CURRICULUM VITAE

Dr. Manoranjan P. Sinha (14.10.1956), M.Sc. (Gold Medalist), Ph.D., D.Sc., F.A.Z., F.Z.S.I., F.N.E.A, a graduate from St. Columba's College, Hazaribag with Honours in Zoology, securing **first class first** position in the University (1976), did his Master degree in Zoology with specialization in **Environmental Biology** from Ranchi University (1980), Ranchi **securing first position in the University** and also obtained **Ph.D.** degree from Ranchi University, Ranchi on aquatic organic pollution (1985). He obtained **D.Sc.** Degree from Ranchi University on Niche relation among benthic organisms in 1997. Appointed as Lecturer in Zoology by University Service Commission currently Dr. Sinha is **University Professor (w.e.f. 27/07/1998)** in Department of Zoology, Ranchi University on recommendation of Jharkhand Public Service Commission and is credited for publication of more than **162** original research papers, more than 20 popular articles and 9 books. He served as **Deputy Director and Director in-Charge** of Academic Staff College Ranchi University (2005-07) very effectively and successfully. He is **member of Editorial Board** of the journals like Pollution Research, Nature Environment & Pollution Technology and International Journal of Ecology, Environment and Conservation and **Executive Editor** of two international journals **The Bioscan (NAAS rating 4.57)** and **The Ecoscan (NAAS rating 5.06)**. Dr. Sinha is fellow, life member and member of a number of organizations and is also working as Officer Bearer of some of the organizations. He was actively associated with International Youth Federation for Environmental Studies and Conservation (IYF) for quite a long period. Dr. Sinha has been associated in organizing national and international seminars, conferences as **member of National Advisory Board** of the event and chaired a number of sessions of different conferences, seminars and symposia as well as delivered **Key Note Address, Plenary Lectures, Invited Lectures** on different aspects Life Sciences and Environmental Sciences. Dr. Sinha has been invited to various **Universities**, different **UGC Academic Staff Colleges (ASCs)** as well as the **Indian Science Congress Association (thrice)** to deliver lectures on different topics of Environmental Science. Presently Prof. Sinha appointed as **Pro-Vice-Chancellor of Vinoba Bhave University**, Hazaribagh, Jharkhand and he has also been appointed as **Principal Investigator of Eastern zone of India in DBT- Twinning and Network Project**, sanctioned by Government of India.

Papers published: 170, citation index: more than 330, h-index: 6

- 7. Publications** : Lists of publications attached.
- (i) Books- 16 (14 published, 2 in press)
 - (ii) Full length Research Papers (170 published, 03 accepted/ communicated).
 - (iii) Popular Articles – 20 (All published)
 - (iv) Abstract - 182
- 8. Book Writing** :
- Impact of Mining on Environment published in 1991. (ISBN: 81-7024-359-9)
 - Recent Advances in Eco-biological Research Vol.- I 1997.(ISBN: 81-7024-842-6)
 - Recent Advances in Eco-biological Research Vol.-II 1998.(ISBN: 81-7024-993-7)
 - A Text Book of Practical Biology Vol.- I 2005.
 - A Text Book of Practical Biology Vol.- II In press
 - Recent Advances in Eco-biological Research Vol.- III In Press.
 - Facets of Current Researches in Life Science 2008.
 - Advances in Pollution Research 2009.
 - The Bioscan Special issue Vol-I (ISSN: 0973-7049),2010
 - The Bioscan Special issue Vol-II (ISSN: 0973-7049),2010
 - The Ecoscan Special Issue Vol-I (ISSN: 0974-0376),2011
 - The Ecoscan Special Issue Vol-I (ISSN: 0974-0376),2012
 - The Ecoscan Special Issue Vol-III (ISSN: 0974-0376),2013
 - The Ecoscan Special Issue Vol-IV (ISSN: 0974-0376),2013
 - The Ecoscan Special Issue Vol-V : Published by Elsevier(ISSN: 0974-0376),2014
 - The Ecoscan Special Issue Vol-VI (ISSN: 0974-0376),2014
- 9 Research Journal Editing** :
- Edited the Souvenir, Abstracts and Articles of the First National Seminar on Role of Youth Non-governmental Organizations on Convention on International Trade of Endangered Species in 1981.
 - Member of Editorial Board of Research Journal
 - Pollution Research
 - Nature Environmental and Pollution Technology
 - Executive Editor of an International Journal Entitled
 - The Ecoscan
 - The Bioscan
 - Associate Editor of an International Journal
 - Journal of Ecology, Environment and Conservation.

10. Participation in National and International Seminars, Symposia, Conferences etc.

Apart from participation in the Sessions of India Science Congress Association and National Academy of Sciences and other regional seminars, symposia, workshops since 1980, also participated in:

- South Asia Regional Symposium of International Association of Human Biologists, National Symposium on Child Handicap and 7th Annual Conference of Indian Society of Human Genetics; Ranchi, December 26-28, 1980.
- International Youth Training Courses and Conference; Karad (Maharashtra), March 11-18, 1981.
- First Congress of Environment on Environmental Pollution in Developing Countries; Kota, October 1-3, 1981.
- Third International Conference on Environmental Education; New Delhi, January 27-29, 1982.
- World Conference on Ahimsa, Animal Protection and Human Nutrition; New Delhi, October 31 - November 2, 1985.
- National Conference on Biosphere Reserves; Similipal (Orissa), June 3-5, 1985.
- IN TACH/FNF workshop on Socio-ecological Impact on the Conservation of Natural Resources in the Eastern Region; Hazaribagh, April 22-23, 1990.
- National Seminar on Perspective in Ecology and Environmental Sciences; Sambalpur (Orissa), October 1-3, 1994.
- National Seminar on prospective in Ecology and Environmental Sciences sponsored by UGC and Sambalpur University. 1-3 October 1994. Sambalpur.
- 13th National Symposium on Recent Trend in Life Sciences- 30-31 Dec. 1995 and 1st Jan 1996. Ch. Charan Singh University, Meerut. U.P.
- 83rd Indian Science Congress – 3-8 Jan 1996 Punjabi University, Patiala. Punjab.
- National Conference on “Pollution Control and Management in Coal Mining and thermal Power plants. 22-24 Dec. 1996. Sambalpur University, Sambalpur.
- 10th All India Congress of Zoology and National Symposium on environmental degradation and animal biodiversity - the problems of India and its remedial measures. 14-18 Oct. 1998, Magadh University. Bodh Gaya.
- 85th Indian Science Congress, 3-8 January 1998, Osmania University, Hyderabad.
- Indian Science Congress, 3-8 January 1999, Anna University, Chennai.
- State level conference on environment and conservation January 16, 99 J.L.N. College, Chakradharpur, Bihar.
- National seminar on Socio-Economic Morbidity Pattern, Demographical changes and Cultural Heritage in Damodar Basin. 26-27 Nov. 99, Giridih, Bihar.
- 87th Session of Indian Science Congress, 3-8 January 2000, Pune University, Pune.

- 21st Annual session of the academy of environmental biology and national symposium on “Ecophysiological consequences of environmental pollution. 6-8 Nov. 2000 N.D. University, Faizabad.
- ILRI Platinum Jubilee Symposium on ‘Lac in the new millennium’, September 20-21, 2000.
- 11th All India Congress of Zoology and National Seminar on: Population explosion in relation to Environment and National development. 17-19 Nov. 2000, B. N. Mandal University, Madhepura, Bihar.
- National Symposium on conservation management and sustainable development of freshwater resources of India (strategy for new millennium). 24 –26 March, 2000, T. M. Bhagalpur University, Bhagalpur, Bihar.
- National seminar on Environmental Mutagenesis and Carcinogenesis. 22-23 January 2001. Giridih College, Giridih, V. B. University, Jharkhand.
- 3rd Indian agricultural scientists and farmer’s congress, 3-5 February, 2001, Bioed Research & Communication Centre, Allahabad.
- International conference of SAARC Countries on Biotechnology in agriculture, Industry & environment, 28-30, December, 2001. Y. C. Science College, Karad, Maharashtra.
- National seminar on Human population growth: problem & control. 27-28 January 2002. Lok Mahavidyalaya, J.P. University, Chapra.
- National seminar on Environmental biotechnology, 21-23 December 2002, Deptt. of Biotechnology and Environmental Sciences, Nagarjuna University, Guntur, A.P.
- National Conference on Zoology vision for 21st Century. 28-31 December, 2002. Deptt. of Zoology, Bangalore University, Bangalore, Karnataka.
- National conference on Pollution Scenario and its effects on the biosphere. 28-29 January, 2003, RSP College, Jharia, V.B. university.
- 20th Annual conference of Indian Society for Comparative Animal Physiology and Symposium on Physiological Approaches to Conserve Biodiversity and to tackle environmental health Hazards. 26-28 February 2003, Department of Zoology, S. V. University, Tirupati, A.P.
- Rehabilitation of land under anthropogenic stress and degradation - Institute of Forest Productivity, Ranchi, 20 Jan. 2004.
- National Conference on population growth pollution and biodiversity loss- a biosocial approach, 18-19 Feb. 2005, organised by SSM College, Ranchi.
- National seminar on Molecular Biology and Biodiversity, 5-7 June 2005, organised by Centre of Bioinformatics, Ranchi.
- National Seminar on the Impact of Pollutants on Fishes and Other Aquatic Life in Different Water Bodies, 5 – 6 February 2006, organized by Department of Zoology Jamshedpur CO-Operative College, Jamshedpur.
- UGC sponsored National Conference on Environmental Education for sustainable lifestyle, 10-11 February 2006, organized by Patna Women’s College Patna.

- National Conference on Recent Advance in Environmental Biotechnology for Forest and Bio-Diversity Management, 7 – 8 March 2006, Organised by Ranchi Women's College, Ranchi.
- National Seminar on Importance of Medicinal Plants cultivation in Promoting the Rural Economy and Supporting Rural Health Care System, 11 – 12 March 2006, organized by society for Environment and Social Awareness – S. E. S. A., Jharkhand.
- International Conference in Zoology INCOZ – 2006, 19 – 22 November 2006, organized by UGC Academic staff College and Department of Zoology, Bangalore University, Bangalore.
- National Seminar on Recent Advances in Animal Ecology, 23 – 24 November 2006, organised by J. M. J. College for Women (Autonomous), Tenali.
- National Conference on The Role of Biotechnology in the Development of Mankind 17 – 18 March 2007, organized by R. S. P. College, Jharia.
- National Seminar on Environment and Sustainable Development (ESD – 2007) 17 – 18 March 2007, Organised by P. G. Department of Environment Science, Sambalpur University.
- National Symposium on Bio-Resources: Technology and Prospects. 18 – 19 March, 2007. Organised by Department of Botany, Govt. Science P. G. College. Bilaspur (C. G.)
- National Conference on Recent Trends in Biotechnology in context of Animal Development and Environmental Biology. 28 – 30 January, 2008, Organised by Department of Zoology, Arts, Science & Commerce College, Indapur and National Environmentalist Association, India.
- International Conference on Technologies for mitigation of environmental pollution and their application in conservation of Aquatic Ecosystem. 11-13, December, 2008, Organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M. S.)
- 3rd National Conference of National Environmentalists Association on Environmental Science and Technology for sustainable Development, 18-20 January, 2009, Organised by IQAC, Government College for Women, Srikakulam, A. P.
- XXXIV Annual Conference of Environmental Mutagen Society of India (EMSI) and International Symposium on Genomics and Molecular basis of Human diseases, 17-19 March, 2009, Organised by Department of Botany, Magadh University, Bodhgaya.
- 4th National Conference of National Environmentalists Association on Present scenario of Environmental Pollution and its effect on living organisms, 9-11 December, 2009, Organised by Department of Zoology Govt. College of Arts and Science Aurangabad, Maharashtra.
- UGC Sponsored National Seminar on Environmental Degradation Its impact on living System, 22-23 October, 2010, Organised by P. G. Department of Zoology, Jai Prakash University, Dak Banglow Road, Chapra, Bihar.
- International Conference on Energy, Environment and Development (from Stockholm to Copenhagen and beyond) (ICEED 2010) 10 – 12 December, 2010, Organised by

Department of Environmental Sciences, Sambalpur University, Jyoti Vihar, Sambalpur, Orissa.

- International Conference on Climate Change, Forest Resource and Environment (ICCFRE, 2011) 09 -11 December, 2011, Organised by Department of Environmental Sciences, University of Kerala, Thiruvananthapuram, Kerala.
- International Conference on Anthropogenic Impact on Environment and Conservation Strategy (ICAIECS,2012), November 2-4,2012, organized by Department of Zoology, Ranchi University, Ranchi and Departments of Zoology and Botany, St. Xavier's College, Ranchi as Convener.
- National Conference on Biodiversity and conservation of Nature and natural Resources, 14-15 December, 2012, organized by Deptt. of Zoology, Adarsh Education Society's Arts, Commerce and Science College, Hingoli, Maharashtra.
- National Seminar on Ecology, Environment and Development organized by Deptt, of Environmental Sciences, Sambalpur University, Sambalpur, in collaboration of National Environmentalists Association, 25-27 January, 2013.
- International Conference on Harmony with nature in context of ecotechnology intervention and climate change (HARMONY, 2013), November 11-13,2013, organized by Department of Zoology, Biotechnology and Environmental Sciences, DDU Gorakhpur University, Gorakhpur U.P.
- National Conference on Aquatic Ecosystems and their Management: Recent trends and future perspectives, March 21-23, 2014, organized by Centre for Environmental Sciences, Central University of Bihar, Patna, Bihar.
- International Symposium on River Biodiversity: Ganges-Brahmaputra-Meghna (GBM) River System, April 4-6, 2014, organized by Patna University, Patna and University of Chittagong, Bangladesh at Patna, Bihar.
- National Seminar on Values of Information in Zoology, February 24-25, 2014. Organized by Tilka Majhi Bhagalpur University, Bhagalpur, Bihar.
- National Conference on Harmony with Nature in Context of Environmental issues and Challenges of 21st century (Harmony – 2014), November 28-30, 2014. Organized by Department of Environmental Sciences, Faculty of Earth Sciences, M. L. Sukhadia University, Udaipur, Rajasthan in association with National Environmentalists Association, India.
- International Conference on Innovation and Research dimensions in Nanobio Pharmaceutical Technology, October 7-8, 2014. Organized by Department of Pharmaceutical Technology, Anna University, Tiruchirappalli, Tamil Nadu.
- International Conference on Basic and Applied Sciences for next generation frontiers, novembr 14-15, 2014. Organized by Lovely Professional University, Jalandhar (Punjab) and Elsevier, India.

- National seminar on Medicinal plants Cultivation and Marketing, 11th -12th April, 2015. Department of Botany and Commerce, Chas College, Bokaro, Jharkhand.

11. Post Held in Past and holding at Present:

Acted in past and also acting at present as President, General Secretary, Executive Member of Various National Societies. Some of them are

- Co-ordinator – Media and Environment Project of International Youth Federation for Environmental Studies and Conservation (IYF), Denmark from 1980-1982.
- General Secretary- National Environmental Association, India, a member organization of IYF, Denmark, 1980-1982.
- President- National Environmental Association, India, a member organization of IYF, Denmark, 1982-84.
- Member- Manual Preparation Committee for Environmental Studies in World Countries, a IYF Project. (1982-84)
- Regional Co-ordinator- worked as Regional Co-ordinator of International Conference on Ahimsa, Animal Protection and Human Nutrition, 1985.
- Chairman- Eastern Regional Environmental Activists Association, (1990-94).

Post holding at present:

- General Secretary- National Environmentalists Association, since 1988.
- President- Bihar Environmental Association, since 1980.
- Executive Member- Indian Association of Pollution Chemists and Biologists, since 1986.
- Secretary- Zoological Society, Ranchi University, Ranchi since 1996.
- Project director, Prithvi Foundation, A registered NGO at Ranchi since 1999.
- Chief advisor, People for Animals, Ranchi since 1999.
- Deputy Director, UGC Academic Staff College, Ranchi University (2005 – 2007).
- Executive body member, Indian Society of Comparative Animal Physiology (2003-2008).
- Executive Editor, The Ecoscan and The Bioscan since 2006.

12. Research and Teaching:

More than 30 years of Research Experience and teaching Experience up to Master Degree Standard.

- 13. Research Guiding Experience:** 15 Research scholars have been awarded Ph. D. degree.
3 Research scholars have submitted Ph. D. thesis.

14. Lectures Delivered as Invited Speaker/Resource person:

Resource Person

- On impact of coal mining on environment and Niche relation in benthic community; 1st Refresher Course in Environmental Sciences, Sambalpur University, October, 1994.

- On species diversity and Biomonitoring & Epiphytic fauna and their role in trophic dynamics; 3rd Refresher Course in Environmental Sciences, Sambalpur University February 1994.
- On the world environment & Environmental conservation; 1st Orientation Course in Environmental Sciences, Staff Academy College, Ranchi University, Ranchi, July, 1994.
- On the environmental problems of the globe & Biodiversity conservation; 2nd Orientation Course in Environmental Sciences, Staff Academy College, Ranchi University, Ranchi, February 1994.
- Course coordinator of Orientation course organized by ASC Ranchi University, Ranchi 2003
- Course coordinator of Refresher course in environmental science organized by Ranchi University, Ranchi, 2005.
- Resource person in ASC, Utkal University, Bhubaneswar, January, 2008.
- Resource person in ASC, Burdwan University, Burdwan, January, 2009.
- Resource person in ASC, Dr. B. A. Marathwada University, Aurangabad, Maharashtra April 2012.

Invited Speaker

- On ecological niche in context of biodiversity conservation; Indian Science Congress Association, January, 1996 hosted by Punjabi University, Patiala.
- Sagar University – In UGC sponsored refresher course in Zoology.
- Chennai – Invited speaker in Indian Science Congress
- Magadh University – In UGC sponsored refresher course in Zoology.
- Barkatullah University, Bhopal - Refresher Course in Zoology organized by Department of Zoology
- Orientation course organized by ASC Ranchi University, Ranchi
- Refresher course in Life sciences organized by ASC Sambalpur University, Sambalpur
- Refresher course in Zoology organised by Magadh University, Bodh Gaya, 2005.
- Invited Speaker in National Conference on Environmental Education for Sustainable Lifestyle, organised by Patna Women's College, Patna.
- Invited Speaker in National Conference on The Role of Biotechnology in the Development of Mankind 17 – 18 February 2007, Organised by R. S. P. College, Jharia.
- Invited Speaker in National Seminar on Environment and Sustainable Development (ESD – 2007) 17 -18 March 2007, Organised by P. G. Department of Environment Science, Sambalpur University.
- Invited Speaker in National Conference on Recent Trends in Biotechnology in Context of Animal Development and Environmental biology. 28 – 30 January, 2008, organized by Department of Zoology, Arts, Science & Commerce College, Indapur and National environmentalist Association, India.

- Invited Speaker in International Conference on Technologies for mitigation of environmental pollution and their application in conservation of Aquatic Ecosystem. 11-13, December, 2008, Organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M. S.)
- Invited Speaker in 3rd National Conference of National Environmentalists Association on Environmental Science and Technology for sustainable Development, 18-20 January, 2009, Organised by IQAC, Government College for Women, Srikakulam, A. P.
- Invited Speaker in XXXIV Annual Conference of Environmental Mutagen Society of India (EMSI) and International Symposium on Genomics and Molecular basis of Human diseases, 17-19 March, 2009, Organised by Department of Botany, Magadh University, Bodh Gaya.
- Invited Speaker in 4th National Conference of National Environmentalists Association on Present scenario of Environmental Pollution and its effect on living organisms, 9-11 December, 2009, Organised by Department of Zoology, Govt. College of Arts and Science Aurangabad, Maharashtra.
- Delivered a Keynote address on “Harmony with nature in context of ecotechnology intervention and climate change” in International Conference on Harmony with nature in context of ecotechnology intervention and climate change (HARMONY, 2013), November 11-13, 2013, organized by Department of Zoology, Biotechnology and Environmental Sciences, DDU Gorakhpur University, Gorakhpur U.P.
- Invited Speaker in National Conference on Aquatic Ecosystems and their Management: Recent trends and future perspectives, March 21-23, 2014, organized by Centre for Environmental Sciences, Central University of Bihar, Patna, Bihar.
- Invited Speaker in International Symposium on River Biodiversity: Ganges-Brahmaputra-Meghna (GBM) River System, April 4-6, 2014, organized by Patna University, Patna and University of Chittagong, Bangladesh at Patna, Bihar.

15. Awards, Scholarships and Honors:

- Merit cum Poverty Scholarship of Government of Bihar during Graduation.
- National Merit Scholarship of Government of India during Masters Degree.
- Recipient of Gold Medal for securing First Class First Position in the University.
- Awarded Promising Indian Zoologist/Environmental Scientist of the 20th Century Gold Medal by Zoological Society of Indian in 10th All India Congress of Zoology in 1998.

16. Research Project Handling Experience:

- Base line data generation for Environmental Management sponsored by Richardson and Kurdas Chennai- completed in 1999.
- Studies on earthworm in particular reference to climo-edaphic factors- sponsored by UGC, completed in 2004.
- Major Research Project - Earthworm biodiversity and its functional significance in Jharkhand- UGC Major Research Project completed in 2008.

- Base Line Data Generation for EIA Based on Flora and Fauna Study of Core Zone and Buffer Zone under West Bokaro Coal Mines, Ghato, Hazaribagh (Work order no. – 4700008778/902), Dated 08.02.2006 (Completed).
- Morphometry and Phylogeography of honey bees and stingless bees in India – Principal Investigator of DBT funded project net work for Bihar, Jharkhand and West Bengal.
- Exploration, Antimicrobial Evaluation and Bio-molecular Characterization of Ethnomycologically Potent Macrofungi of Assam-Principal Investigator of DBT-NER Twinning project.

17. Social Service and Extension work:

- Has been an active member of National Service Scheme during student life.
- Represented Ranchi University in National Camp of N. S. S. in 1976.
- Actively engaged in Environmental Awareness complain since 1976.
- Organised first time World Environment Day celebration in Ranchi on 5th June 1980 in big way.
- Promoted the idea of Community Sanitation by creation of working groups
- Organised an International Conference on Anthropogenic Impact on Environment and Conservation Strategy (ICAIECS, 2012), November 02 - 04, 2012, as Convener.

18. First man in Jharkhand to do:

- Research on the Earthworm diversity of Jharkhand as nothing was known about the biodiversity of earthworm in the geographical region.
- Research on soil bacteria on their population, their genomic analysis and identification.
- Research on impact of nuisance weed *Parthenium* on consumer and decomposer community.
- Research on pharmacological potentiality of medicinal plants of Jharkhand on animal model.
- Prepare nanoparticles of medicinal plants and research on Green and White Nanoparticles – synthesis, characterization and impact assessment.

LIST OF PUBLICATIONS

Published

- (A) Books
- (B) Popular Articles
- (C) Research Paper

(A) Book

- i. Impact of mining on Environment 1990 – Ashish Publications, New Delhi. ISBN 81-7024-359-9
- ii. Recent Advances in Ecobiological Research Volume-I. A.P.H. Publishing Corporation, New Delhi. ISBN 81-7024-842-6
- iii. Recent Advances in Ecobiological Research Volume- II. A.P.H. Publishing Corporation, New Delhi. ISBN 81-7024-993-7
- iv. A Text Book of Practical Biology, Volume- I, Scientific Book Company, Patna.
- v. A Text Book of Practical Biology, Volume- II, Scientific Book Company, Patna (in press)
- vi. Recent Advances in Ecobiological Research Volume- III. A.P.H. Publishing Corporation, New Delhi. (In Press)
- vii. Facets of Current Researches in Life Science, 2008, National Environmentalists Association, India.
- viii. Advances in Pollution Research, 2009, National Environmentalists Association, India
- ix. The Bioscan Special issue Vol-I (ISSN: 0973-7049),2010
- x. The Bioscan Special issue Vol-II (ISSN: 0973-7049),2010
- xi. The Ecoscan Special Issue Vol-I (ISSN: 0974-0376),2011
- xii. The Ecoscan Special Issue Vol-II (ISSN: 0974-0376),2012
- xiii. The Ecoscan Special Issue Vol-III (ISSN: 0974-0376),2013
- xiv. The Ecoscan Special Issue Vol-IV (ISSN: 0974-0376),2013
- xv. The Ecoscan Special Issue Vol-V : Published by Elsevier(ISSN: 0974-0376),2014
- xvi. The Ecoscan Special Issue Vol-VI (ISSN: 0974-0376),2014

(B) Popular Articles

1. The water and air pollution problems with special reference to Chotanagpur.
2. The problem of urban- ecosystem of the Indian sub continent.
3. Deforestation in Bihar and role of youth in conservation.
4. Pesticides and their effect on environment.
- **All in Proc. International Training Course, Karad, 8-12 March 1981.**
5. On the conservation of flora and fauna – the role of CITES and youth.
- **Proc. 1st National Seminar on Role of youth in CITES 5th June 1981.**
6. CITES its Role and Relevance.
- **ibid.**
7. On conserving wildlife.
- **The Searchlight, 12th October 1981. English Daily.**
8. Root causes of environmental crisis.
- **Ekalabya, 17-21, 1983.**
9. Environmental conservation Vs Development.

- **Environmental Echo, 1 (1) : 57-61. 1983.**

10. Wildlife conservation - essential for human survival.

- **Van Sampada 1-6, 1988.**

11. Environmental Conservation : Overview.

- **Prof. P.N. Mehrotra felicitation volume, 52-56, Deptt. of Zoology,
Ranchi University, Ranchi**

12. Environmental Conservation essential for mankind, Ecosoc – 1 (2) 1998.

13. Problems of Biodiversity Conservation Ecosoc – 2 (3) 1999.

14. Jahar Ka Bhandar Jivan Ka Adhar

- **The Aaj, Hindi Daily, 23rd Jan'99.**

15. Biodiversity management – Ecosoc. 6 (3): 1999.

(Many popular articles published in News Papers, Photocopy attached)

(C) Research Papers

1. **M. P. Sinha. 1986.** Limnobiologic study on trophic status of Polluted freshwater reservoir of coal field area. *Poll. Res.* **5(1)**: 13-17.
2. **M. P. Sinha** and K. Sinha. **1986.** Seasonal succession in Rotifer population in a freshwater body at Ranchi. *The Indian Zoologist.* **10(1 & 2)**: 91-93.
3. **M. P. Sinha** and K. Sinha. **1987.** Characterization of coal mine effluent from Jharia Coalfields. *J. Ind. Poll. Cont.* **3(1)**: 11-18.
4. K. Sinha, **M. P. Sinha** and C. M. Srivastava. **1988.** Histochemical changes during hepatocarcinogenesis after exposure of diethylnitrosamine in wister albino rats. *Poll. Res.* **7(3-4)**: 93-97.
5. **M. P. Sinha**, P. N. Pandey and P. N. Mehrotra. **1989.** Studies on Some aspect of pollution due to distillery effluent at Kokar, Ranchi-1. Characterization of the effluent. *Oikoassay.* **6(1)**: 49-51.
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