

CURRICULUM VITAE

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Category : GENERAL

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EDUCATION QUALIFICATION

Exam Passed	Subjects	Board / University	Year	Division	% Marks
10 th	Maths., Science., Social Science., English Comm., Comm. Sanskrit.	C.B.S.E	2007	First	79
Intermediate	PHY., CHEM., BIO., Eng core., Physical education.	C.B.S.E	2009	First	74
B. Sc.	Zoology	VKSU, Ara.	2014	First	69
M. Sc.	Zoology	VKSU, Ara.	2017	First	68.3

Additional Qualification

1.GATE Qualified in Life Sciences

2.CSIR UGC-NET JRF Qualified in Life Sciences.

Ph. D. (2020-2025)

Title of Ph. D. topic: EVALUATING THE RESPONSE OF BENTHIC MACROINVERTEBRATES AND ICHTHYOFAUNAL ASSEMBLAGES TOWARDS ENVIRONMENTAL STRESSORS AT BARAILA LAKE (VAISHALI), BIHAR.

PAPER PUBLISHED:

1. Evaluation of ionic composition and hydrogeochemical processes of the groundwater in Muzaffarpur, district, Bihar, India (2023). *Ind J Environ Protect*, Kalpana publishing, 43(3), 263-269.
2. Assessing the fluoride toxicity, and the source contributors to the major ionic constituents in the groundwater aquifer of Middle Ganga River Basin, Rohtas, India (2023). *International Journal of Energy and Water Resources*, Springer, 9, 483-497.
3. Fluoride contamination in groundwater of the middle Gangetic plains of India: A comparative geochemical and health risk assessment (2024). *Groundwater for Sustainable Development*, Elsevier, 25, 101-112.
4. Investigating the 96h LC 50 of Mercury and Cadmium on *Channa punctatus* (Bloch): A Comparative Acute Toxicity Bioassay (2024). *Journal of Ecophysiology and Occupational Health*, Informatics Publishing Limited, 89-98.
5. Investigating the drinking and irrigation suitability of the groundwater in the middle Ganga River basin of Muzaffarpur district, India (2024). *Ecology, Environment and Conservation*, EM International, 30 (2), 642-652.
6. Multi-metric biomonitoring of a seasonally flooded Baraila wetland using benthic macroinvertebrates as indicator organisms in the middle Ganga River Basin (Vaishali), India (2024). *AQUA—Water Infrastructure, Ecosystems and Society*, IWA publishing, 73(6), 1211-1227.
7. Documenting the current Ichthyofaunal status of the River Ganga in the middle Gangetic plains at Patna, India (2025). **International Journal of Fisheries and Aquatic Studies**, 13(2): 178-188.

8. Deciphering the accumulation of potentially toxic metals and their relation with size in the five commercially important fish species from the middle stretch of the River Ganga (2025). *Next Research*, Elsevier.
9. First record of the ichthyofauna in the seasonally flooded Baraila wetland, India: In relation to the ecological health of the wetland. Accepted in **Inland Water Biology**, Springer.
10. Assessing the nutrient load and its source identification in the sediments of two distinctly different wetlands in the Gangetic alluvial Plains of Bihar, India (2025). Accepted in **Journal of Soil and Water Conservation**, Taylor and Francis.
11. Comparative health risk assessment of arsenic and fluoride toxicity in the rural area groundwater in the middle Gangetic Plain at Muzaffarpur, India (2025). Accepted in **Bulletin of the National Research Centre**, Springer.

BOOK CHAPTERS

1. Groundwater contamination by fluoride and mitigation measures for sustainable management of groundwater in the Indo-Gangetic Plains of India (2023). In *Groundwater in Arid and Semi-Arid Areas: Monitoring, Assessment, Modelling, and Management* (pp. 289-314). Cham: Springer Nature Switzerland.
2. A review on the outdoor air pollutants in the Indo-Gangetic Plains of India: sources, health effects and remediation (2024). *Health and Environmental Effects of Ambient Air Pollution: Volume 1: Air Pollution, Human Health, and the Environment* (pp. 179-207), Elsevier.

BOOK

1. Basic of Air pollution, **Notion Press**.

CONFERENCES AND SEMINARS

List of Research Communications in International conf./symposia

- World Environment Summit 2022 organized by Environment and Social Development Association, Delhi on 16th of October 2022.

- International Conference on Emerging Trends in Biosciences and Chemical Technology, **organized by School of Biotechnology, Shri Mata Vaishno Devi University, Katra** from 03rd to 05th December 2022.
- Recent trends in Biosciences and Healthcare, **Organised by Department of Zoology, Patna University, Patna** on 22nd to 23rd November, 2023.

List of Research Communications in National conf./symposia

- National Conference on Rejuvenation of The Ganga River Ecosystem Opportunities and Challenges at Gangetic Plains Regional Centre, **organized by Zoological Survey of India, Patna.**
- National Seminar on Recent advances in environmental engineering towards sustainability, **organized by Department of civil engineering, NIT Patna** from 10 to 14 October 2022.
- National Symposium on Emerging Contaminants: Monitoring, Risk Assessment and Environment Health **organized by Environmental Science & Management and Department of Zoology, Patna University, Patna** on 30th November 2023.