

CURRICULUM VITAE

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EDUCATION QUALIFICATION

Exam Passed	Subjects	Board / University	Year	Division	% Marks
10 th	All subject	Bihar School Examination Board, Patna	2011	First	84.6
Intermediate	PHY., CHEM., BIO., Eng, Alt Eng.	Bihar School Examination Board, Patna	2013	First	75
B. Sc.	Zoology	Patna University	2017	First	77
M. Sc.	Zoology	Patna University	2019	First	79.56

Additional Qualification

- Qualified GATE XL exam in 2020.
- Qualified UGC-NET/JRF exam in Life Sciences in the year 2020.

Ph. D. (2020-2025)

- **Title of Ph. D Topic:** EVALUATING GENOTOXIC EFFECT OF SOME SELECTED HEAVY METALS ON COMMERCIALY IMPORTANT FISH SPECIES OF RIVER GANGA AT PATNA, BIHAR.

PAPER PUBLISHED:

1. Impact of lockdown on air pollutants during COVID-19 at Patna, India (2021). **Asian Journal of Atmospheric Environment, Springer**, 15(4), 1-16.
2. Evaluation of the suitability of groundwater for irrigational purposes using irrigation water quality indices and geographical information systems (GIS) at Patna (Bihar), India (2022). **International Journal of Energy and Water Resources, Springer**, 8(2), 241-254.
3. Assessing the geochemical processes controlling groundwater quality and their possible effect on human health in Patna, Bihar (2023). **Environmental Science and Pollution Research, Springer**, 30(49), 107138-107157.
4. 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.
5. A multivariate statistical approach to evaluate the hydro-geochemistry of groundwater quality in the middle Ganga River basin, Patna, India (2024). **Acta Geophysica, Springer**, 72(3), 1913-1926.
6. 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.
7. Comparison of avian diversity between managed and unmanaged wetlands in Patna, Bihar, India (2023). **Ornis Hungarica, Sciendo**, 31(2), 13-28.
8. Birding surprise: New distributional record of Baikal teal in Rajdhani Jalashay, Patna, Bihar, India (2024). **Journal of Entomology and Zoology Studies**, 12(1), 8-10.
9. 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.
10. 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.
11. GIS-Based Mapping of the Water Quality and Geochemical Assessment of the Ionic Behavior in the Groundwater Aquifers of Middle Ganga Basin, Patna, India

- (2024). *Nature Environment & Pollution Technology, Technoscience Publications* 23(3), 1433-1447.
12. 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.
 13. Unveiling the rising threat of cadmium pollution and alarming health risks associated with the consumption of 15 commercially important fish species in the middle stretch of River Ganga, at Patna, India (2025). **Biological Trace Element Research, Springer**, 203(1), 422-441.
 14. Documenting the current Ichthyofaunal status of River Ganga in the middle Gangetic plains at Patna, India (2025). **International Journal of Fisheries and Aquatic Studies**, 13(2): 178-188.
 15. 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**.
 16. 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**.
 17. 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**.
 18. 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. Assessment of Ecological Quality Based on Benthic Macro-invertebrates in the Ganga River, Patna (2021). In Euro-Mediterranean Conference for Environmental Integration (pp. 759-762). Cham: **Springer Nature** Switzerland.

2. Statistical Analysis for the Assessment of Hydrogeochemical Characteristics of River Ganga at Patna, India (2021). In international conference on Mediterranean Geosciences Union (pp. 73-77). Cham: **Springer Nature** Switzerland.
3. 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.
4. Heavy metals in the sediment of River Ganga: a review (2023). Weathering and Erosion Processes in the Natural Environment (pp. 1-25), **WILEY publishing**.
5. 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

- 8th Bihar Science Conference **Organised by Patna University, Patna in collaboration with BBrains Development Society** on 03 to 05 September, 2020.
- 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

- Issue pertaining to sustainable management of water quality, **Organised by Department of Zoology, Patna University, Patna in collaboration with UNICEF Bihar**, March 2019.
- 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.