



Reeya Ghosh

Specialization: Ore Geology, Geochemistry (Critical Minerals and REE Mineralization)

Current Status: Assistant Professor in Geology (W.B.E.S)

Address- Department of Geology, Durgapur Government College, Pin- 713214, West Bengal, India.

Qualification: M.Sc in Applied Geology

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Google Scholar Profile Link:

<https://scholar.google.com/citations?user=SIikr1MAAAAJ&hl=en>

ORCID Id: <https://orcid.org/0000-0002-0990-8950>

TEACHING EXPERIENCE:

Date of joining in the present institution: 06/01/2025

Duration: 1 year 6 months (January, 2025-continuing)

Organization: Durgapur Government College

Curriculum taught: Undergraduate (B.Sc.) and Post Graduate (M.Sc.) in Geology

Research Supervision: No

Subjects taught: PG semester 1: Structural Geology

PG semester 2: Economic Geology

UG semester 2: Mineral Science

Value added course: Environmental Studies

UG semester 3: Structural Geology.

UG semester 3: Essentials of Petrology

UG semester 4: Structural Geology & Geodynamics.

PhD AND RESEARCH EXPERIENCE:

Duration: 5 years 6 months (July 2019-December 2024)

Organization: Department of Earth and Environmental Studies. National Institute of Technology Durgapur

Subject: Ore geology

Currently working on: "Petrology and Geochemistry of low grade REE bearing apatite ores to understand their petrogenesis (Geochemical and Temporal evolution.)".

INVITED TALK:

Invited as Resource Person for delivering a lecture on 'A Journey to the Frozen Frontier: Rise of

Sustainable Tourism in Antarctica ‘on 28/10/2024 at **Kabi Jagadram Roy Government General Degree College, Mejia**

OTHER ACADEMIC AND ADMINISTRATIVE EXPERIENCES

1. Acted as member of an administrative committee (Students' Health, Welfare and Psychological Counselling Cell) formed for the smooth functioning of the college.
2. Acted as member in Exam committee of UG semester 3 (regular and backlog) examination, 2024-2025 of Kazi Nazrul University, Asansol.
3. Mentoring undergraduate and post graduate students so that they can easily discuss various aspects of their all-round development.
4. Acted as member in Exam committee of UG semester 4 (regular and backlog) examination, 2025-2026 of Kazi Nazrul University, Asansol.
5. Acted as members in several TC committees (a. Central Instrument Facility Sub-Committee; b. Cultural Sub-Committee; c. Girls' Common Room Sub-Committee).(2025-2026).
6. Acted as convener (Internship Activity Coordinator) of an administrative committee (Institution's Innovation Council: IIC) formed for the smooth functioning of the college (2025-2026).

ACADEMIC ACHIEVEMENTS / AWARDS:

1. **Post Graduate Indira Gandhi Scholarship for Single Girl Child** from 2015 to 2017.
2. Qualified **GATE** 2019.
3. Qualified **Joint CSIR-UGC Net** 2019.
4. Regular **Research Scholar with Institute Fellowship** from July, 2019 to July, 2024.
5. Received **SERB International Travel Support (ITS)** grant in December, **2023**.
6. Received **Outstanding Presentation award** and **Certificate of Excellence** by Department of Science and Technology, and Biotechnology (DSTBT) Government of West Bengal, in January, **2024**.

PUBLICATIONS:

Article in Peer reviewed journal

1. **Ghosh, R.**, Patel, A. K., Ozha, M. K., & Chinnasamy, S. S. (2025). Phosphorus-induced REE enrichment and hydrothermal alteration in the Beldih fluorapatite-bearing rock, Purulia, West Bengal: Implications for REE mineralization. *Geochemistry*, 85 (4), 126352. DOI: 10.1016/j.chemer.2025.126352.”
2. Badhe, K., Ozha, M. K., Chaurasia, C. and **Ghosh, R.** (2023). U–Th–PbTotal monazite geochronology of the felsic volcanic rocks from the Hutti greenstone belt: Evidence of magmatic and hydrothermal events. *Geological Journal*, 59(1), 260-271. DOI: 10.1002/gj.4859

Conference Proceedings

1. Ozha, M. K., Patel, A.K., and **Ghosh, R.** (2025), Magmatic Critical Mineral Enrichment and their secondary enhancement in the Beldih Phoscorite-Carbonatite: Implications for Primary and Secondary Resource Potential. National Conference on Critical Minerals-Exploration and Exploitation by **Geological Survey of India** (Central region) in collaboration with **Ministry of mines, 2025.**
2. Ozha, M. K., **Ghosh, R.**, and Patel, A.K. (2025), Critical Metal Potential of Apatite and Phosphogypsum: Insights from the Beldih, Eastern India. National conference on Technological Advancements in Waste Management: Challenges and Opportunities: **TAWMCO-2025** by IIT-ISM Dhanbad
3. **Ghosh, R.**, and Ozha, M. K. (2024). Textural studies of Magnetite from the rocks of Beldih, Purulia, West Bengal. European Geosciences Union (**EGU**) General Assembly, **2024**, DOI: 10.5194/egusphere-egu24-514
4. **Ghosh, R.**, and Ozha, M. K. (2024). Geochemistry of Apatite from Beldih Mine, West Bengal, Eastern India: A Potential Prospect for Critical Elements. **31st West Bengal State Science & Technology Congress, Kolkata, 2024**
5. **Ghosh, R.**, and Ozha, M. K. (2023). Magmatic-Hydrothermal Style of Nb -Mineralization within Apatite-Magnetite Vein from Beldih, Eastern India. American Geophysical Union (**AGU**), **2023.**
6. **Ghosh, R.**, and Ozha, M. K. (2023). Fluid assisted alteration of Apatite from Beldih, West Bengal, Eastern India: Evidences of REE Mobilization. **Goldschmidt, 2023**, DOI: 10.7185/gold2023.14451
7. **Ghosh, R.**, and Ozha, M. K. (2023). Petrographic and Geochemical Characterization of Apatite from Beldih, Purulia, West Bengal: Evidence of REE Mobilization. National Conference on Valuing Low-grade Ore and Waste: Challenges and Remedies (**VLOW: CR - 2023**)
8. Ozha, M. K., and **Ghosh, R.** (2020). Radiation-induced alteration in minerals surrounding radioactive phases and its implication vis-à-vis radioactive waste disposal. International conference on “Water, Energy and Environmental Sustainability 2020” (**WEES 2020**).

CONFERENCES:

Oral presentations in:

1. **International** conference on “**Water, Energy and Environmental Sustainability 2020**” (**WEES 2020**) organized by National Institute of Technology Durgapur in association with RMIT University Australia.
2. **Goldschmidt International Conference 2023, Lyon, France** organized by European Association of Geochemistry.
3. **National** Convention of Metallurgical & Materials Engineers “**Valuing Low-grade Ore and Waste: Challenges and Remedies (VLOW: CR -2023)**” organized by National Institute of Technology Durgapur in association with Institution of Engineers, Durgapur Local Centre.
4. **American Geophysical Union (AGU) International conference 2023, San Francisco, California, USA.**
5. “**6th Regional Science & Technology Congress**”, jointly organized by Durgapur Government College and Department of Science and Technology, and Biotechnology (DSTBT) Government of West Bengal.

6. **31st West Bengal State Science & Technology Congress 2024** organized by Department of Science and Technology, and Biotechnology (DSTBT) Government of West Bengal.
7. National Conference on Critical Minerals-Exploration and Exploitation Organised by **Geological Survey of India** (Central region) in collaboration with **Ministry of mines, 2025**.
8. National conference on Technological Advancements in Waste Management: Challenges and Opportunities: **TAWMCO-2025**, organised by IIT-ISM Dhanbad

Poster presentations in:

9. **European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria**

Date: 02.08.2026

Place: Durgapur