

INTERNATIONAL Seminar

**“Unearthing the Past, Shaping the Future:
175 Years of the Geological Survey of India”**

**Jaipur, Rajasthan
20–21 November 2025**

Geological Survey of India: A Legacy of Scientific Service and National Development

Founded in 1851, the Geological Survey of India (GSI) stands as one of the oldest and premier geoscientific organizations in the world. Established with the initial mandate of identifying coal reserves to fuel the India's railways network, GSI has since evolved into a cornerstone of the nation's scientific and industrial development. Over the course of more than 170 years, it has played a pioneering role in mineral exploration, geological mapping, and the creation of critical baseline geoscientific data across the subcontinent.

Landmark discoveries—such as the East Coast Bauxite deposits, iron ore belts of Odisha and Chhattisgarh, and the coalfields of eastern India—have directly catalysed the development of key industries like power, steel, aluminum, and cement.

Post-independence, the GSI expanded its mandate to include groundwater assessment, geohazard studies, seismic zoning, urban geology, and environmental geoscience, thereby supporting the nation's infrastructure development and disaster resilience. In recent decades, GSI has embraced advanced technologies such as remote sensing, GIS, deep seismic imaging, hyperspectral surveys, and 3D geomodelling, aligning itself with India's ambitions of becoming self-reliant and globally competitive in natural resource augmentation.

As the custodian of national geoscientific knowledge, the GSI continues to serve as a backbone for strategic planning, policymaking, and scientific collaboration—contributing significantly to initiatives such as the National Mineral Exploration Policy (NMEP), Atmanirbhar Bharat, and Gati Shakti. The launch of the National Geoscience Data Repository (NGDR) marks a significant step toward digital transformation and open access, enabling seamless dissemination of geoscientific data to stakeholders across industry, academia, and governance, thereby fostering transparency, innovation, and investment in the mineral and geo-resource sectors.



The International Seminar

India's geological framework, ranging from the Archaean to the Quaternary, offers a rich and diverse spectrum for geoscientific exploration. As traditional resource-bearing areas have matured, attention has increasingly turned to deeper and more concealed mineral deposits, demanding the integration of cutting-edge technologies and interdisciplinary approaches.

In celebration of 175 years of the Geological Survey of India, this international seminar will provide a vibrant platform for experts, professionals, institutions, and industries from India and abroad to come together to share their insights and experiences.

Geological sciences are rapidly diversifying keeping in pace with evolution in concepts and paradigm shift in priorities and technologies. In order to accommodate new ideas, several new emerging themes will be addressed in this seminar. Advances in geoscientific studies related to application of Artificial Intelligence and Machine Learning in predictability mapping; management, sustainability and augmentation of earth resources and issues of societal importance such as geohazards will be one of the highlights of the seminar. India's green energy transition initiatives, aiming for net-zero emissions are crucial for both environmental sustainability and economic growth, driving investment in clean technologies.

The seminar will host a parallel conclave on National Critical Mineral Mission (NCMM) of Govt. Of India. The NCMM is aimed to secure India's critical mineral supply chain by ensuring mineral availability from domestic and foreign sources. The parallel conclave has been planned to cover a wide spectrum of topics including **geoscience diplomacy** and **geoscience cooperation with India's neighboring countries, Africa and Latin America**. The conclave is expected to address **strategies for strengthening the value chain by enhancing technologies**, an ambient ecosystem to foster innovation, skill development in mineral exploration, mining, processing and recycling.

Key Dates

Date	Event
01.05.2025	Commencement of submission of abstracts
15.05.2025	Early bird registration
30.06.2025	Closing of submission of abstracts
31.08.2025	Acceptance of abstracts
16.09.2025	Regular registration
19.11.2025 20.11.2025	Spot registrations
20.11.2025	Conference Day I: Inauguration, keynote lectures, sessions (oral/poster presentation) cultural program, conference banquet
21.11.2025	Conference Day II: keynote lectures, sessions (oral/poster presentation) vaedictory functions



Conference Themes:

01. Geodynamic riddles: The depths of the Solid Earth

- Magmatic processes
- Metasomatic processes: Crust-Mantle interactions
- Deformation, Metamorphism: connecting the mineralisation
- Sedimentation: tectonics, resultants and processes

02. Exploring Treasures: Advances in understanding Ore Formation, Exploration and Resource challenges

- Advancements in metallogenic research
- Metallogeny in Indian Shield
- Application of Mineral System Concept in exploration
- Ore genesis modeling
- Global Resource challenges

03. Sustaining our planet: Critical Minerals, Energy and Mineral resources

- The energy future: Indian context
- Exploiting the low grades: The necessity
- Critical Minerals: The transition of energy
- Rare earths: shaping the present to future
- Non-traditional critical mineral resources



04. The Pulsing Planet: Orogenic forces and rhythmic resonance

- The rising Mountain: Himalayas
- Deformed signatures: evolution of the rock records
- Dynamic Earth: Interplays
- Tectonics: Action in the margins

05. Geological insights for a thriving earth: The Critical Zone

- Weathering of urban landscapes
- Coping up the changes: coastal past and present
- Geology of carbon capture
- Groundwater: achieving water security
- The changing rivers: dynamics and resultants

06. Geohazards decoded: Research for a safer tomorrow

- Finding the susceptible
- Mitigation measures: the regional scale
- Safe infrastructure: strategies in engineering geology
- Balancing act: predictive modeling

07. From Origins to now: Decoding the evolution

- Planetary Geology
- Biosphere evolution
- Records of habitability: ocean to land
- Diversity and Mass extinction
- Geo-archeology: the Quaternary dispersion



08. Innovations in analytical and computational frontiers in geosciences including AI/ML/DL

- Next generation tools for geoscience
- On-Site sampling and analysis of geological Systems
- Atomic reactions: advances in isotope geochemistry
- Mathematical advancements, Artificial Intelligence and machine learning

09. Guardians of time: Geoheritage preservation

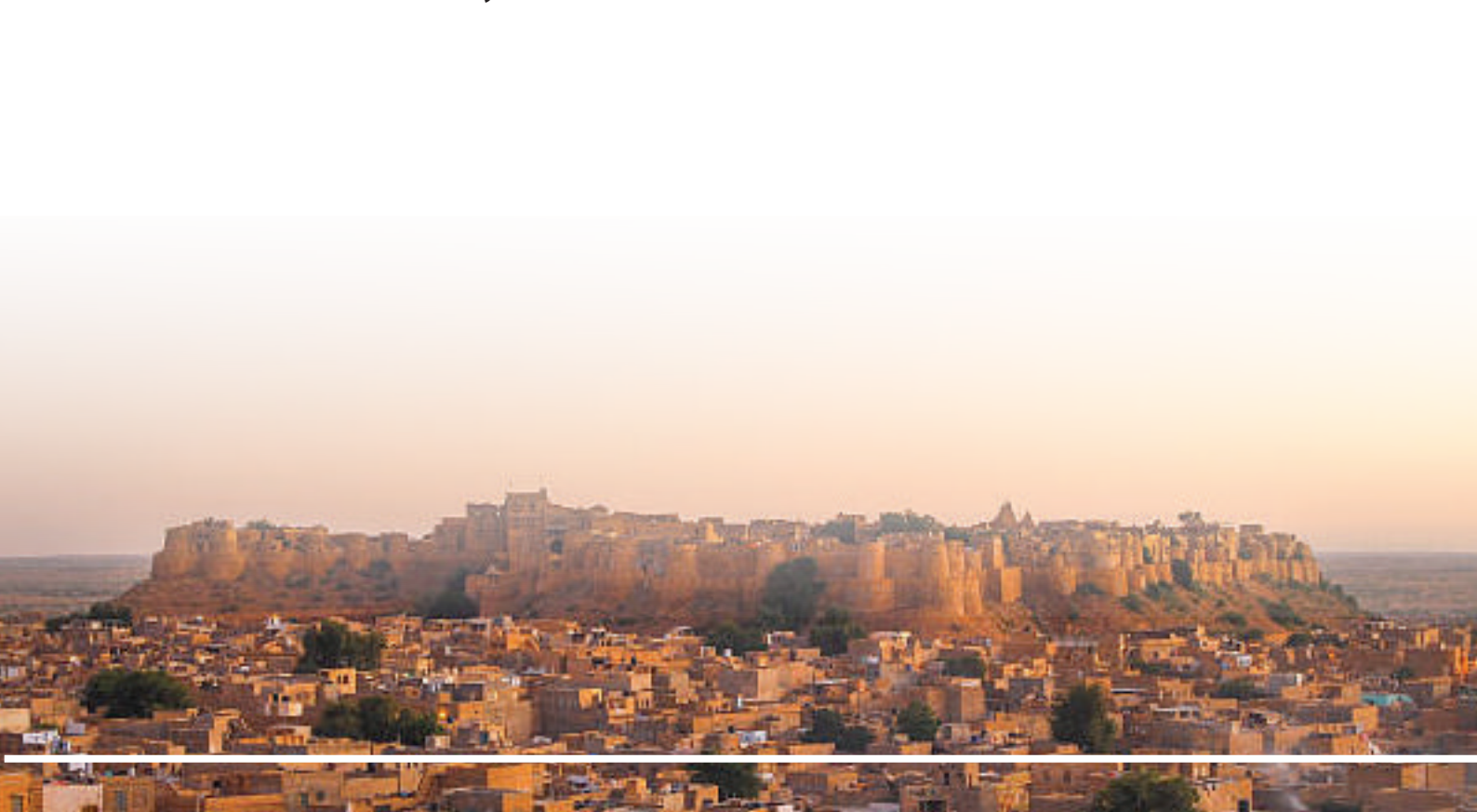
- Geo-conservation: strategies
- Geoparks: possibilities in the continent
- Geo-Heritage and Sustainable development goals

10. Geophysical insights: Imaging the Earth

- The new horizons: mapping the deeper earth
- View from sky: innovations
- Unraveling treasures: the concealed deposits

11. Below the waves: the oceanic enigmas

- Geology of marine systems
- Coastal geoscience
- The ocean resources: way forward



Keynote Lectures:

Eminent geoscientists from India and across the globe will be invited to deliver keynote lectures during the plenary session. These distinguished experts will share their insights and experiences on critical and emerging themes in geosciences. The list of keynote speakers will be announced in subsequent communications.

Abstracts:

Submission of abstracts will open on **1st May 2025** and will be conducted online through the seminar's dedicated web page in www.gsi.gov.in. Authors of accepted abstracts will be invited to present their work through oral or poster presentations during the conference. Notifications of acceptance will be issued by **31st August 2025**.

Venue:

The seminar will be held at the Rajasthan International Centre (RIC), Jaipur, a prestigious, state-of-the-art convention facility. RIC is designed to host events of national and international significance with its modern auditoria, exhibition halls, hospitality zones, and resource centres. Inspired by the Navagraha of Hindu cosmology, the architectural layout blends traditional and modern aesthetics.



Post-conference Excursions:

Rajasthan is a part of the northwestern Indian shield, exposing rock sequences from the Archean to the Recent. The region is rich in base metals, gold, phosphorite, wolastonite, limestone, and lignite. Subject to interest and feasibility, customized post-conference excursions to important geological and mineralized sites will be arranged for participants. Details will be shared closer to the event.

Registration Fee:

The registration fee includes access to all scientific sessions, a conference kit, lunch and refreshments on both days, and the conference banquet.

Category	SAARC – Early Bird	SAARC – Regular	SAARC – Spot	International – Early Bird	International – Regular	International – Spot
General	INR 2000	INR 3000	INR 4000	USD 100	USD 150	USD 200
Student / Research Scholars	INR 500	INR 750	INR 1000	USD 50	USD 75	USD 100

Participation Opportunities

1. Sponsorship Categories

Platinum Sponsor – ₹10,00,000

- Exclusive back cover advertisement in the souvenir
- Complimentary registration for 6 delegates
- Prime kiosk (2m × 4m) in exhibition area
- Prominent logo display at venue, website homepage, and brochure cover
- Acknowledgement during inaugural and valedictory functions
- One-page company profile in the souvenir



Diamond Sponsor – ₹5,00,000

- Exclusive inside front cover advertisement
- Complimentary registration for 4 delegates
- Standard kiosk (2m × 2m) in exhibition area
- Prominent logo display on website and banners
- Half-page company profile in the souvenir

Gold Sponsor – ₹3,00,000

- Full-page advertisement in the souvenir
- Complimentary registration for 3 delegates
- Standard kiosk (2m × 2m) in exhibition area
- Logo display on website and venue banners

Silver Sponsor – ₹2,00,000

- Half-page advertisement in the souvenir
- Complimentary registration for 2 delegates
- Standard kiosk (2m × 2m) in exhibition area
- Logo display on website

2. Advertisement Options

- ₹2,00,000: Full-page advertisement in the souvenir+ logo on cover page + prominent web placement
- ₹1,50,000: Inside back cover advertisement in the souvenir + logo on website
- ₹1,00,000: Full-page advertisement in the souvenir
- ₹75,000: Half-page advertisement in the souvenir

3. Exhibition Kiosks

- Prime Exhibitor – ₹1,00,000: 2m × 4m kiosk + full-page advertisement in souvenir
- Standard Exhibitor – ₹75,000: 2m × 2m kiosk + half-page advertisement in souvenir



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