



Tunnelling Association of India (TAI)

Activities & Achievements (2023-2025)

TAI – Leading India's Tunneling Future

Tunnelling Association of India (TAI) is the Indian chapter of the International Tunnelling and Underground Space Association (ITA) established in 1991, has been involved in dissemination of information about the latest technological development in the execution of tunnel and underground projects by encouraging planning of the use of subsurface and to promote advances in the preparatory investigations for tunnels, design, construction and maintenance of tunnels and also by organizing symposia, seminars, workshops, and training courses, both at national as well as international level, in liaison with international organizations.

Through its strategic initiatives, active participation in global forums, and commitment to innovation, TAI continues to elevate India's presence in the tunneling industry. The association remains dedicated to knowledge sharing, technical excellence, and fostering international collaborations to drive sustainable underground infrastructure development.

1. New Governing Council & Regular Meetings:

- A new Governing Council (GC) was constituted in May 2024 as Annex 1.

TAI Office Bearers



- Regular GC meetings and review meetings by the President, TAI, are being conducted to ensure smooth functioning and strategic direction.



2. Formation of Expert Groups & Database Development:

- TAI has constituted following Expert Group to provide specialized insights on tunneling-related subjects.

S.No.	Name of Working Group	Chairman of Working Group	Member Secretary of Working group
1	Tunnel Safety	Mr. R.K. Khali	Mr. R.K. Singh
2	Conventional Tunneling	Mr. Bineshian, Hoss	Mr. Chandan Vaidya
3	TBM and Shotcrete Tunnelling	Mr. Lakshmana Rao	Mr. Chiranjib Sarkar

- A comprehensive database of experts across various tunneling disciplines is being developed.
- Revamping of TAI Website: The TAI website is being revamped to offer enhanced accessibility, updated resources, and a modern interface for industry professionals.

3. Global Participation & Recognition

- TAI's Representation at Prestigious ITA Events:
 - ❖ 50th ITA-AITES General Assembly & World Tunnel Congress (WTC 2024), held in Shenzhen, China, from April 19-25, 2024.
 - Attended by the Treasurer, Senior Vice President, and Manager of TAI, along with several Indian participants.



❖ World Tunnel Congress 2025 from 9th to 15th May 2025 in Stockholm, Sweden

- Scheduled participation by the President, Treasurer, and TAI Young Members (YM), with around 50 delegates from India.

4. International Recognition for TAI:

- Mr. R.K. Khali, Vice President of TAI, has been honored as a Fellow of ITA, marking a prestigious global recognition for TAI and India.



5. Publications & Knowledge Sharing:

- The TAI Journal, a biannual publication featuring technical articles and industry updates, continues to be a valuable resource.
- The July 2024 edition has been successfully released and the Jan. 2025 edition is under process.

6. Expert Representation in National Committees:

- TAI has actively nominated experts for the Hill & Tunnels Committee (H-10) of the Indian Roads Congress (IRC) to contribute to policy and technical advancements.

Dr. Hoss Bineshian, Director Technical, Amberg Engineering AG

Mr. Chandan Vaidya, General Manager - UG South Asia & GCC, Bekaert Mukand Wire Industries Pvt. Ltd.

Mr. R.K. Singh, Sr. Tunnel Expert, Segmental Consulting & Infrastructure Advisory Pvt. Ltd.

7. Leadership Engagement:

- The President of ITA recently visited the TAI Office, reinforcing commitment and leadership in driving the association's objectives.



8. Bidding for WTC 2029:

- TAI has officially bid to host the World Tunnel Congress (WTC) 2029 in India, aiming to showcase the country's tunneling capabilities on a global stage.

Key Events Organized (2023-2025)

9. Past Events

1. ITA Awards 2023 & Tunnelling Asia Conference (November 2023, Mumbai)

- Theme: Sustainability and Climate Resilience in Underground Space
- Included the prestigious TAI Awards recognizing excellence in the tunneling industry.



2. Conference on Technological Advancements in Drilling & Blasting (June 27-28, 2024, Shimla)

- Attended by 80 participants, focusing on innovations in tunneling methodologies.



3. Hands-on Training : Innovations in Dams & Tunnel Engineering (August 1-2, 2024, CBIP, New Delhi)

65 participants engaged in bridging research and practical applications in tunnel engineering.



4. World Tunnel Day Celebration – Conference on Safe & Sustainable Tunneling (December 4, 2024, New Delhi)

Chief Guest : Hon'ble Minister of Road Transport and Highways, Shri Nitin Gadkari

- Dedicated to advancements in tunnel safety and sustainability.



5. Conference on Advancing Tunneling Through Innovation: Cutting-Edge Equipment & Techniques (December 11-12, 2024, Greater Noida)

- Focused on modern tunneling machinery and best practices.



6. Conference on Cutting-Edge Technologies & Sustainable Practices in Tunneling (January 28-29, 2025, CBIP, New Delhi)

- Addressing India's infrastructure boom with innovative tunneling solutions.



Inauguration of Conference on Cutting-Edge Technologies & Sustainable Practices in Tunneling

7. Future Trends & Innovations in Sprayed Concrete for Underground Structures (January 9-10, 2025, CBIP, New Delhi)

- An in-depth exploration of advancements in sprayed concrete technology.



The Conferences on “Future Trends and Innovations in Sprayed Concrete in Underground Structures” was held on 9-10 January 2025, organized by CBIP as part of its ongoing series i.e. **The TechXchange 2025-27**”, aimed at fostering knowledge sharing and innovation. The conference focused on critical advancements and future directions in the use of sprayed concrete (shot crete) for tunneling and underground construction.

Shri Suyash Trivedi, ED – Civil, MMRCL and Shri R.K. Dhiman, President TAI graced the conference with their participation as Guest of Honor.

The two-day conference addressed key areas such as: **Durability and Longevity, Sustainability, Automation and Digital Integration, Safety Standards**. The event brought together experts, practitioners, and researchers to discuss the challenges and innovations in the sprayed concrete field, encouraging collaborative discussions that will shape the future of underground construction in India.

8. Hands-on-Training Programme on Mastering Rock Tunnel Design and Analysis with Advanced Geotechnical Software Tools, 14 - 15 January 2025, New Delhi



Upcoming Events

1. Hands-On Training: Mastering Cutting-Edge Infrastructure Design & Simulation (August 2025, New Delhi)
 - A practical training session focusing on state-of-the-art design and simulation techniques in underground construction.
2. Tunneling Asia 2025 – Revolutionizing Underground Infrastructure (November 2025, Mumbai)
 - Exploring the latest trends, risk mitigation strategies, and case studies in tunneling.
3. World Tunnel Day 2025 – Conference on Innovations in Underground Infrastructure (December 4, 2025, New Delhi)
 - A global platform for discussions on future-ready tunneling solutions.



TAI GOVERNING COUNCIL

2024-26

President

Shri Ram Kumar Dhiman

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Sr. Vice President

Dr. Hoss Bineshian

Principal, Director Technical

Amberg Engineering AG

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Shri Rakesh Kumar Khali

Vice President (Operations)

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Shri A.K. Dinkar

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Shri K.K. Singh

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