

Tunneling Asia 2025

***Revolutionizing Underground Infrastructure
through Advanced Tunneling Techniques***

***3rd & 4th December 2025
at Eros Hotel, Nehru Place, New Delhi***



Organised by



in association with



INTRODUCTION & BACKGROUND

With increasing urban density, complex terrain, and rising environmental considerations, tunneling has emerged as a transformative solution for infrastructure development across Asia. Be it metro systems, hydropower tunnels, roadways, or underground utilities, tunneling offers unmatched advantages in land optimization, resilience, and sustainability.

Tunneling Asia 2025, organized by the Tunnelling Association of India (TAI), aims to unite international experts, policy influencers, engineers, and technology leaders to drive meaningful dialogue and collaboration on emerging tunneling techniques, technologies, and project delivery models shaping the future of underground infrastructure.

TOPICS & SUBTOPICS FOR DISCUSSION

1. Cutting-edge Tunneling Technologies

- Conventional tunneling (NATM, drill & blast)
- Robotics, remote monitoring, and automation
- Microtunneling and trenchless methods
- Advances in Tunnel Boring Machines (TBMs)

2. Tunnel Design, Engineering & Safety

- Geotechnical investigation and risk assessment
- Structural and lining design for long-term stability
- Waterproofing and drainage systems
- Tunnel ventilation design: fresh air supply and extraction systems
- Longitudinal vs transverse ventilation systems
- Ventilation in road tunnels, metro systems, and utility tunnels
- Fire and smoke control strategies in tunnel ventilation
- Emergency response and life safety systems

3. Digitalization & Smart Tunneling

- BIM integration for tunnel planning and maintenance
- IoT-enabled condition monitoring
- AI and digital twin technologies for predictive maintenance
- Data-driven decision-making in construction and operations

4. Environmental & Sustainable Practices

- Eco-sensitive tunneling and green certifications
- Energy-efficient ventilation and lighting
- Waste material reuse and carbon footprint reduction
- Climate-resilient tunnel infrastructure

5. Policy, Financing & Project Delivery

- Evolving regulatory frameworks and policy alignment
- PPP models and innovative financing mechanisms
- Contractual risk management and dispute resolution
- Capacity building, training, and skill development

6. Case Studies & Global Best Practices

- Urban metro tunnels and underground highways
- Hydropower headrace tunnels in Himalayan regions
- Tunneling in mixed ground and challenging geologies
- International collaborative projects and innovations

KEY TAKEAWAYS

- Learn about the latest tunneling methods and digital innovations
- Explore ventilation design principles and safety strategies
- Understand sustainability trends and green infrastructure solutions

- Gain insights from case studies of major Asian and global projects
- Connect with experts shaping the future of underground infrastructure
- Discover business opportunities, new partnerships, and technological trends

WHO SHOULD PARTICIPATE?

- Tunnel engineers, ventilation and fire safety specialists
- Metro rail, highway and hydropower developers
- Civil contractors, consultants, and EPC firms
- Equipment manufacturers and technology providers
- Government officials and policy planners
- Academicians, researchers, and young professionals
- Environmental engineers and sustainability experts

CALL FOR PAPERS/CASE STUDIES

The papers/case studies on the subject are invited. Intending authors may send Synopsis of paper(s)/ case study(ies) as per the guidelines/instructions given below so as to reach the Conference Secretariat by **30th September 2025**. The papers/case studies accepted for presentation will be notified immediately thereafter. Only original contributions that have not been published or presented at any other conference/symposium/seminar are acceptable, otherwise the paper will not be considered. The full length paper will be reviewed by the Technical Committee for oral and poster during the conference presentations.

GUIDELINES FOR PREPARATION OF PAPERS/CASE STUDIES

Please refer Website : [http:// www.tai.org.in](http://www.tai.org.in)

SCHEDULE

- Notification for acceptance of Synopsis **10th October 2025**
- Submission of Full Text of Papers **10th November 2025**

OFFICIAL LANGUAGE

The official language of the Conference is English.

DATE & VENUE

The conference is proposed to be held in 3-4 December 2025, Hotel Eros, Nehru Place, New Delhi.

REGISTRATION

The registration fee payable by the delegates, including authors of papers, for participation in the conference is as follows:

Delegates	Delegate/Author	Research Student
SAARC Countries in (INR)	Rs. 20,000*	Rs. 10,000*
Other Countries in (USD)	USD 400	USD 250

*GST extra @ 18% on registration fees. GST No. : 07AAAAA8324J2ZT

10% discount will be given to Members of CBIP, TAI, ISRM (India) and IGS.

EXHIBITION OPPORTUNITY

Tunneling Asia 2025 will host a dedicated exhibition zone, offering companies and organizations the opportunity to:

- Showcase equipment, tools, and technologies
- Present ventilation, monitoring, and safety systems
- Engage directly with tunnel developers and authorities
- Build brand recognition and explore new business leads

Custom exhibition packages and sponsorship options are available. Limited slots, book early to secure your space.

The Charges for one stall will be Rs. 2 lacs + GST.

GST @ 18%. GST No. : 07AAAAA8324J2ZT

Exhibition Stall of 2m x 2m will be provided to the sponsors organisations at the venue of the Conference. The exhibition will provide a scope to present the new technologies, materials and mechanisms including software. Participants will enjoy sufficient time and opportunity to inspect the exhibition, and exhibitors will have an excellent opportunity of accessing a large number of potential buyers/decision makers each day. This opportunity will be allotted on first-cum-first served basis.

SPONSORSHIP OPPORTUNITY

Enhance your brand visibility and connect with key decision-makers by partnering with Tunneling Asia 2025.

The Conference will provide an excellent opportunity to national and international organizations; central / state government organizations, public sector undertakings, industrial organizations, equipment manufacturers, entrepreneurs, financial and funding institutions, consulting and construction organizations to publicize themselves by being Platinum / Golden / Silver sponsors or Supporter of the Conference. The sponsorship fees payable and benefits are mentioned below. Interested organizations may communicate their willingness to the Conference Secretariat.

SPONSORSHIP OPPORTUNITIES

Entitlement	Levels						
	<i>Platinum</i>	<i>Golden</i>	<i>Silver</i>	<i>Supporter</i>	<i>Kit Sponsor</i>	<i>Lunch Sponsor</i>	<i>Dinner Sponsor</i>
	INR 10.00 lacs	INR 5.00 lacs	INR 3.00 lacs	INR 2.00 lacs	INR 3.00 lacs	INR 3.00 lacs	INR 5.00 lacs
Logo on the Backdrop	✓	✓	✓	✓	✓	✓	✓
Complimentary Delegates	15	6	4	2	2	4	6
Presentation Slot	✓	✓	–	–	–	–	10
Distribution of catalogues	✓	✓	✓	✓	✓	✓	✓
Exhibition Stall	1	–	–	–	–	–	✓
Advertisements (in page/s)	Two	Two	One	Half	Half	One	Two
Display of name during lunch hours	–	–	–	–	–	✓	–
Display of name during Dinner hours	–	–	–	–	–	–	✓
Name & Logo in the inner flap of the Kit	–	–	–	–	✓	–	–

PAYMENT

All payments are to be made by the following methods:

The fee can be paid by cheque to be drawn in favour of “Adhering Committee of International Tunnelling Association (India)” or by bank transfer to the following account:

Beneficiary Details

- Name of Bank: Canara Bank, Delhi Diplomatic Enclave, 7/48, Malcha Marg, Chanakyapuri, New Delhi 110021
- Account Holder Name: “ADHERING COMM OF ITA”
- Account No. 0157101031496
- MICR Code No. 110015007
- IFSC Code: CNRB0000157
- Swift Code: CNRBINBBDFS

Bank charges if any, must be borne by the organisation/participants and should not be deducted from the amount remitted to the Conference Secretariat.

Conference Secretariat

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