

18th Annual Conference

TUNNEL CONSTRUCTION IN INDIA

Experience so far, Best Practices and Upcoming Opportunities

June 1-2, 2026 | Courtyard by Marriott, Mumbai

"20% Early Bird" discount ends on May 11, 2026
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Organiser:



Co-sponsors so far:



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MISSION

- The Indian tunnelling market is witnessing increasing activity driven by the need to improve road and rail connectivity, develop urban mass rapid transit systems, upgrade water supply and sewerage systems, and generate hydropower energy.
- Currently, the hydro sector has the longest tunnels under planning and construction stages. This is followed by irrigation, roads, railways, water, and metro sectors. Some of the big-ticket upcoming projects involving tunneling works include the Mumbai-Ahmedabad High-Speed Rail Corridor, Rishikesh-Karanprayag New Rail project, Pune Inner Ring Road, and Khadakwasla Dam-Fursungi water tunnel.
- Over time, tunneling projects have grown significantly in size as well as technology sophistication. The sector has transitioned from traditional tunneling methods like cut and cover and drill and blast methods (DBM) to more mechanised techniques like tunnel boring machine (TBM) and the New Austrian Tunneling Method (NATM), supported by advanced equipment.
- Technology and digital solutions are now playing a pivotal role in building 'smart' tunnels which are equipped with integrated traffic control, video surveillance, wireless communication, fire signaling, and entrance detection systems. Aerial surveys, GPS-based mapping, and advanced geological investigations are being used to improve accuracy, durability, and strength in difficult terrains.
- Sustainability has emerged as a key focus area for the sector. There are notable measures like reutilisation of excavated muck, judicious use of water, restrictive use of fossil fuels and higher use of solar lighting to maintain environmental balance.
- Going forward, developments in key infrastructure sectors will promise sizeable tunneling activity across roads, railways, metros, water, sewage, irrigation and hydropower. In total, tunnels spanning a length of 3,600 km are at various stages of implementation, offering opportunities for all stakeholders like contractors, developers, technology providers, equipment and material providers, etc.
- **The mission of this conference is to discuss the key trends and initiatives in the tunneling sector in India and highlight the new and emerging opportunities. The conference will also showcase new technologies and solutions and best practices.**

TARGET AUDIENCE

The conference is targeted at top and middle-level managers from:

- | | | |
|--------------------------|---|----------------------------------|
| • Project Developers | • Technology Providers (TBMs, | • Consultants and Design Service |
| • Hydro Power Developers | excavator, drill rigs, cranes, loaders, | Providers |
| • EPC Contractors | roadheaders, shotcrete machines, etc) | • Urban Local Bodies |
| • Irrigation Companies | • Indian Railways | • Etc |
| • Metro Rail Operators | • Water & Sewage System Developers | |

To register: Call +91-9167434939, email: evita.dsouza@indiainfrastructure.com, or visit us at www.indiainfrastructure.com

AGENDA

KEY TRENDS, DEVELOPMENTS AND OUTLOOK

- What are the key trends and developments in the tunnelling sector?
- What are the challenges being faced?
- What are the new and emerging opportunities? What is the sector outlook?

CONTRACTORS' VIEWPOINT: EXPERIENCE AND CHALLENGES

- What has been the experience of contractors so far?
- What are the biggest issues and challenges? How are they being addressed?
- What are the new techniques being adopted? What specific steps are being taken to expedite construction?

SEGMENT FOCUS: CURRENT PRACTICES, EXPERIENCE AND UPCOMING PROJECTS

Hydro | Roads | Railways | Water And Sewage | Metro Rail

- What has been the experience in tunnel construction in the segment? What construction techniques/best practices are being used?
- What are some of the new and emerging techniques? What are the key benefits?
- What are the key challenges? What are the upcoming opportunities?

TUNNEL CONSTRUCTION TECHNIQUES: DBM, TBM AND NATM

- What has been the experience with tunnel construction techniques such as DBM, TBM and NATM? What are their specific features?
- What are the emerging trends and advancements in this space?
- What are some of the best practices and noteworthy projects?

SMART SOLUTIONS: FOCUS ON SAFETY

- What have been the recent technological solutions deployed for ensuring safety in tunnel construction?
- What are the advancements in the field of inspection and monitoring? What are some of the best practices?
- What are the issues and challenges being faced?

SUSTAINABLE TUNNEL CONSTRUCTION

- What are the key emerging trends shaping sustainable tunneling in India?
- What has been the industry experience so far? What are the key challenges?
- What are the new and emerging technology solutions being deployed?

FOCUS ON ENGINEERING AND CONSTRUCTION PRACTICES

- What are the new trends and advancements in the engineering and construction of tunnels?
- What are the new technologies and solutions for tunnel construction?
- What are the specific issues and challenges? How are they being addressed?

ADVANCEMENTS IN GEOTECHNICAL INVESTIGATIONS AND MONITORING SOLUTIONS

- What are the geotechnical investigation, survey and monitoring practices being followed in India?
- What are the technological advancements & innovations in this space?
- What are the specific issues and challenges? How are they being addressed?

COST ECONOMICS

- How has the project economics for tunnelling projects evolved over the years?
- What are the major risks and challenges?
- What are some of the notable projects in terms of cost optimisation?

TUNNEL REPAIR AND REHABILITATION

- What are the emerging solutions for tunnel repair and restoration?
- What is the role of technology in tunnel rehabilitation and asset management?
- What are the new innovations and advancements for tunnel maintenance?

ROCK BLASTING AND EXCAVATION TECHNIQUES

- What has been the experience in tunnel construction in hard rock strata?
- What are the challenges associated with drilling, blasting and excavation? How are these being addressed?
- What are some of the noteworthy projects? What can be learnt from them?

MEP AND HVAC SYSTEMS IN TUNNELS

- What are the new and emerging requirements for mechanical, electrical and plumbing (MEP) solutions and heating, ventilation and air conditioning (HVAC) systems for tunnel construction?
- What are the recent trends and advancements in this space?
- What are the specific issues and challenges?

NEW MATERIAL REQUIREMENTS

- What are the new and emerging material requirements for tunnel construction (steel, cement, anchors, explosives, girders, admixtures, etc.)?
- What are the new options and innovations (shotcrete material, fibre and rock reinforcement, geosynthetics, etc.)?
- What are some of the noteworthy initiatives? What have been the associated cost savings?

EQUIPMENT SHOWCASE (EXCAVATORS, DRILL RIGS, CRANES, LOADERS, ROADHEADERS, ETC.)

- What are the emerging trends and advancements in the equipment segment?
- How is the industry gearing up to meet the emerging equipment requirements for tunnel construction?
- What have been the biggest challenges? How are they being addressed?

PREVIOUS PARTICIPATING ORGANISATIONS

A&T Engineering, Aakar Abhinav Consultant, ACOEM Ecotech Industries, Aecom India, AFCONS Infrastructure Limited, Amberg Engineering India, APL Apollo, Ashtech (India), Astral Limited, Astral Pipes, Atlas Copco, Bajaj Reinforcement LLP, Bajaj Reinforcement, Bernard Consultants, Bitumag, BMRL, Border Road Organisation, Bouw Consultants, Brokk India, Carpi India Waterproofing Specialists, CDE Asia, CEC-ITD Cem-TPL JV, Chemistik, Chennai Metro Rail Corporation, Chennai Metro Rail Limited, Choksey Chemicals, Coastal Projects-L&T, Codel International, Consulting Engineers Group, CTM Geo Synthetics, Cusmat, Danfoss Industrial, DEHN, Delhi Metro Rail Corporation, Dextra Group, Dextra India, DNC Infrastructure, DSI-Bridgecon India, Draeger Safety India, Durga Mechatronics, Elkem South Asia, Epiroc, FlaktGroup, FOGTEC, Forbes Marshall, Fracwell Miners, G R Infra Projects, Gall Zeidler, GARWARE TECHNICAL FIBRES, Garware Technical Fibres, Genstru Consultants, Geo Source, GeoConsult India, GHM Mining, Globe Electronics, GMRL, Godrej & Boyce, HCC, Herrenknecht, Hill International Inc., Hilti India, Hitachi Zosen India, Howden Solvent (India), IRCON International Limited, ITD Cementation, JCB India, Jeevan Ecotex, JIC, Jindal Stainless, Jindal Stainless Steelway, JMC Projects (India), JMRC, JSW, Kerala Infrastructure Investment Fund Board (KIIFB), KMC Construction, Kochi Metro Rail, Kolkata Metro Rail Corporation, Konkan Railway Corporation, Kotak Institutional Equities, L&T, L&T ECC, L&T IDPL Invit, Larsen & Toubro Construction, Laviosa, LEA Associates South Asia, Leister Technologies India, Leviat, LION Group, LKT Engineering, Lucky Investments, MACO Corporation India, Madhya Pradesh Metro Rail Corporation, Maharashtra Metro, Maheshwari Mining, Manas Geo Tech India, Manitou Group, Mapei Construction, Mapel Construction Products India, Master Builders Solutions India, Megaplast, Megha Engineering and Infrastructures, Minova Runaya, MKC Infrastructure, Mumbai Metro Rail Corporation Limited, Mumbai Metropolitan Region Development Authority, Municipal Corporation of Greater Mumbai, National Capital Region Transport Corporation Limited, National High Speed Rail Corporation, National Highways Authority of India, NCRTC, Newkem, NHAI, NHPC, Normet, Northeast Frontier Railway, Northern Railways, Orica, Padeco India, Patel Engineering, Pavai Infra Geotech, Penetron Infra Products, Precision Drawell, PROGRESS GROUP, Public Works Department - Government of Maharashtra, Racom Engineers, RDS Projects, RDSO, Redhawk Engineering Consultants, Renolit, Responsive Industries, Robbins, Rodic Consultants, RVNL, Sandvik, Shree Krishna Agro, SICK India, Siso Software India, SK E&C, SMC Infrastructures, SNF India, Soil Tech, Solar Industries India, Soma, Soprema, Sparkle Clean Tech, Squadrone, SRK Mining, SUCG Infrastructure, Tata Consulting Engineers Limited, Tata Projects Limited, TCE, Tejin India, Terratec, THDC, TLT-Turbo India, Trimble, Tunnel SAZ Machine, Tümaş India-Altinok Joint Venture, ULCCS, Ultrafog India, Unovel Industries, UPMRL, USBRL, VE Commercial Vehicles, VKJ Projects, VMT, Webau-India Progress Group, Weir Minerals, YÜKSEL PROJE AŞ, Zitron India.

DELEGATE FEE

Delegates	20 per cent discount (before May 11, 2026)				Fee without discount (after May 11, 2026)			
	INR	GST@18%	Total INR	Total USD	INR	GST@18%	Total INR	Total USD
One delegate	20,000	3,600	23,600	300	25,000	18%	29,500	330
Two delegates	34,000	6,120	40,120	500	42,500	18%	50,150	556
Three delegates	48,000	8,640	56,640	700	60,000	18%	70,800	800
Four delegates	62,000	11,160	73,160	900	77,500	18%	91,450	1,100

Please note: There is a **special low fee of Rs 7,000** per participant for state-owned hydro power producers, PWDs, ULBs, Indian Railways, metro rail corporations, research organisations and academic institutions.

- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

ORGANISERS

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes **Indian Infrastructure**, and **Power Line** magazines, as well as a series of reports, including **Tunnelling in India**, **Hydro Power in India**, **Urban Rail in India**, **Road Development in India** and **Railways in India**.

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