



**INTERNATIONAL WEBINAR  
ON  
ROAD TUNNEL: RECENT TRENDS, INNOVATIONS AND WAY  
FORWARD**



**Organizer:**

**Indian Roads Congress (IRC) New Delhi, India  
&**

**Ministry of Road Transport & Highways, New Delhi, India**

**Organizing Partners:**

**World Road Association (PIARC)**

**International Tunnelling and  
Underground Space Association**



**Venue: Online Mode  
3<sup>rd</sup> & 4<sup>th</sup> March, 2021**

**TIME: 14:00 to 17:00 Hours IST (09:30 to 12:30 Hrs Central European Time)**

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## **ABOUT PIARC**

The World Road Association (PIARC) is a non-for-profit organization established in 1909. The Association aims to improve international co-operation and to foster progress in the field of roads and road transport. More than 100 years after it was established, the Association continues to foster and facilitate Global discussion and knowledge sharing on roads and road transport. The Association now boasts 125 Government Members Worldwide and retains consultative status to the Economic and Social Council of the United Nations. The Association mobilizes the experience and knowledge of 1,200 experts from more than 80 countries in 20+ Technical Committees and Task Forces. Our knowledge products include reports (one per month on average), online manuals, international seminars and Congresses, etc. [www.piarc.org](http://www.piarc.org).

The Vision of the Association is to be the world leader in the exchange of knowledge on road tunneling and practices within an integrated sustainable context.

The Seminar program is being developed with collaboration from the PIARC Technical Committee 4.4 “Tunnels”. The Committee is putting focus on issues pertinent to survey, design, construction, machinery operation and maintenance practices being followed around the world on road tunneling.

## **ABOUT MINISTRY OF ROAD TRANSPORT AND HIGHWAYS**

Ministry of Road Transport and Highways is a ministry of the Government of India, primarily responsible with the functions of construction and maintenance of National Highways (NH), administration of Motor Vehicles Act and Central Motor Vehicles Rules, formulation of broad policies relating to road transport, environmental issues, automotive norms, etc. besides making arrangements for movements of vehicular traffic with neighbouring countries. [www.morth.nic.in](http://www.morth.nic.in).

## **ABOUT INDIAN ROADS CONGRESS**

The Indian Roads Congress (IRC) is the Apex Body of Highway Engineers in the country. IRC was set up by the then Govt. of India in December 1934. It has presently grown into a multidimensional and many faceted organizations devoted to the cause of better roads and bridges in the country. It has about 17200 Members from various Govt. Departments, Public Sector Undertakings, Technical Institutions and Private Sector. The development of roads, bridges & tunnels in the country has been significantly influenced by the wise counsels

given by the IRC and has progressed according to the policies enunciated by it. The Indian Roads Congress also guides the endeavors of the Government of India. [www.irc.nic.in](http://www.irc.nic.in)

IRC provides a National Forum for sharing of knowledge and pooling of experience & expertise on the entire range of subjects connected with road sector including the connected policy issues. IRC works as a think tank for the road sector. The objectives of IRC are to promote and encourage the science and practice of building, operation and maintenance of roads, bridges, tunnels; to promote the use of Guidelines, Codes, Standards & Specifications. The society mobilizes the experience and knowledge of 1,000 Indian experts from all stakeholders ( from government, academician, researchers, contractors, designers, concessionaries, manufacturers, etc) in 27+ Technical Committees.

IRC has framed dedicated 'Guidelines on Road Tunnels' for benefit & adoption of highway professionals in 2010. subsequently, based on feedback and advancement of machinery, equipment, construction material, etc this document has been revised by IRC and first revision was published in last year i.e IRC: SP:91:2019 'Guidelines for Road Tunnel'. In addition, special reference about road tunnels are also given in other IRC documents viz, IRC: SP:48; IRC: SP: 73; IRC: SP:84; IRC: SP:87, IRC: SP:99, etc

### **About ITA COSUF**

ITA COSUF is the Centre of Excellence for world-wide exchange of information and know-how regarding operational safety and security of underground facilities.

### **BACKGROUND AND NEED OF WEBINAR:**

Road tunnels are very practical alternatives to cross physical obstructions or traverse through physical barriers such as mountains or snow bound areas and also in urban scenario to overcome the problem of RoW availability, congestion, pollution, etc. Road tunnel helps to reduce the distance between two locations, promote tourism & development of that particular area and also a boon against the fight with global warming. Many developed countries have adopted tunnelling as the most feasible option for quite some time. Currently, India is one of the fastest growing markets for tunnels and for Expressways, National Highways and high-density corridors passing through mountain ranges the option of tunnel is generally more viable taking into account overall benefit as compared with conventional hill road. so, there is need to organise international webinar on 'Road Tunnel: Recent Trends & Innovations' for benefit of Highways Professionals, government officers, designers, consultants, researchers, academicians, students & research scholars, material & machinery manufacturers, device Manufactures, etc across the globe.

## Objectives of the Webinar:

The webinar will provide a common platform to all national/international Stakeholders to discuss and identify the constraints, best available practices/ technology around the globe and to recommend the strategy and action plan to overcome the constraints and enhance the road tunneling works. Besides the webinar provides an excellent opportunity for practitioners to exchange their views as well as to get the exposure to the challenges, recent trends, innovations best available solutions, practice, in the area of road tunnels.

## Methodology

This International Seminar will comprise 5 Technical Sessions. Experts from India, PIARC Technical Committees, as well as regional and international leading/domain experts will make presentations during the webinar.

## Language

The official language of the webinar will be English.

## Presentation and Discussion

Presentations on various aspects related to Survey, Investigation, DPR Preparation, Tunnel Excavation Technology, Fire, Ventilation & Safety aspects, Indian & foreign Experience of Tunnelling case Studies, etc will be held during the International webinar. This will be followed by discussions and question answer session. Based on the presentations & discussion, recommendations of the webinar would be prepared and sent to the Government of India for consideration and implementation.

## Webinar Venue

Online platform.

Link for joining the webinar through online platform will be shared to registered delegates on their email addresses.

## Sponsors

Government organizations, Concessionaries, Contractors, Consultants and Manufacturers may sponsor this International event. The schedule of fees is as follows, which, may be sent by Demand Draft/crossed cheques drawn in favour of the Secretary General, IRC

Sponsorship	Rs. 5,00,000/-*
Co-sponsorship	Rs. 3,00,000/-*

**Note \*(Including applicable Service tax)**

## Tentative Programme

Day 1 : 3 <sup>rd</sup> March 2021 (Wednesday)	
13.30 - 14.00 hrs. IST	Joining online Platform for webinar
14.00 – 15.00 hrs. IST	<b>Inaugural Session:</b> <ol style="list-style-type: none"> <li>1) Welcome &amp; Introduction of Webinar by Secretary General, IRC</li> <li>2) Address by President, PIARC</li> <li>3) Address by DG(RD)&amp;SS, M/o RTH</li> <li>4) Key Note Presentation: <u>Overviews of Road Tunnel Works Across the Globe by Olivier Vion, Executive Director of ITA</u></li> <li>5) Address by Secretary, MoRTH</li> <li>6) Address by Chief Guest <u>Hon'ble Minister of State (RT&amp;H), Government of India</u></li> <li>7) Vote of thanks by Secretary General PIARC</li> </ol>
15:00-15:10 hrs. IST	Break
15.10 - 16.00 hrs. IST	<b>Session: 2 Survey, Investigation and DPR Preparation for Tunnel Works:</b> (International practices presentations by PIARC/ITA and Indian experts (2 nos. @ 20 min each & followed by 2 x 5 min Q&A)  <b>Talk &amp; Presentation by:</b> <ol style="list-style-type: none"> <li>i) Bernard FALCONNAT (PIARC TC4.4 member)</li> <li>ii) Dr Sanjay Rana: TC Member IRC and M/s Parsan Overseas Private Limited on 'Geophysical Investigation for Road Tunnel'</li> </ol>
16:00-16:10 hrs. IST	Break
16.10-17.00 hrs. IST	<b>Session: 3 Tunnel Excavation Technology &amp; Support System, Extra Ordinary Geological occurrences (EGOs) and related contractual issues:</b>  <b>Talk &amp; Presentation by:</b> <ol style="list-style-type: none"> <li>i) Knut Garshol, Norwegian Tunnelling Network</li> <li>ii) Shri G Nagendra, GM, Infra, Konkan Railway Corporation Limited</li> </ol>

<b>Day 2: 4<sup>th</sup> March 2021 (Thursday)</b>	
14:30 - 15.20 hrs. IST	<p><b>Session 4 – Fire, Ventilation, Safety &amp; Digitalization of Tunnel</b></p> <p><b>Talk &amp; Presentation by:</b></p> <ul style="list-style-type: none"> <li>i) Prof. Dr. Peter Sturm, Graz University, Austria, PIARC TC 4.4 WG4 leader on ‘Overview of PIARC work on ventilation, fire &amp; safety’</li> <li>ii) Shri K P Purushottaman, IRC Member &amp; Chief Engineer, Border Road Organisation , New Delhi on ‘Experience and Challenges on Atal Tunnel Rohtang’</li> </ul>
15:20-15:30 hours IST	Break
15:30 - 16.20 hrs. IST	<p><b>Session 5 -International and Indian Experience / case Studies on Tunnel:</b></p> <p><b>Talk &amp; Presentation by:</b></p> <ul style="list-style-type: none"> <li>i) René List, ASFINAG, Austria, PIARC TC4.4 member on ‘Refurbishment of the Kaisermühlen tunnel’</li> <li>ii) Dr. Fathi Tarada, Mosen Ltd., UK, PIARC TC 4.4 member on ‘Fire Protection of Tunnel Joints for the A55 Conwy Immersed Tube Tunnel’</li> <li>iii) Arthur Kabuya, Bruxelles Mobilité, Belgium, PIARC TC4.4 WG1 leader on ‘Renovation of the Leopold II tunnel in Brussels – Accompanying measures’</li> <li>iv) Shri Vinod Shukla, MD FSG Consultant</li> </ul>
16:20-16:30 hours IST	Break
16.30 - 17.30 hrs.	<p><b>Valedictory Function &amp; Summing up webinar with Implementable Recommendations</b></p> <ul style="list-style-type: none"> <li>i) Concluding Remarks by Chairman, Tunnel Committee, PIARC -</li> <li>ii) Concluding Remarks by DG(RD)&amp;SS, MoRTH, Government of India</li> </ul> <p><b>Chief Guest:</b> <u><a href="#">Hon’ble Union Minister RTH &amp; MSME, Government of India</a></u></p>

**International Webinar**

**Organized by Indian Roads Congress (IRC)**

**In association with World Road Association (PIARC), Ministry of Road  
Transport and Highways**

**on**

**ROAD TUNNEL: RECENT TRENDS, INNOVATIONS AND WAY  
FORWARD**

**March 3-4, 2021**

TIME: 14:00 to 17:00 Hours IST (09:30 to 12:30 Hrs Central European Time)

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**Online Platform (Link will be shared to registered delegates)**

**REGISTRATION FORM**

IRC Membership No. \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Name of Organization \_\_\_\_\_

Address \_\_\_\_\_

Tel. (Code) \_\_\_\_\_ No. \_\_\_\_\_ Fax \_\_\_\_\_ Mobile \_\_\_\_\_

E-mail \_\_\_\_\_

Dated: \_\_\_\_\_ Signature \_\_\_\_\_

The Deputy Secretary  
Indian Roads Congress  
IRC Bhawan, R K Puram, Sector-6  
New Delhi-110 022  
Tele.: + 91 11- 2618 5273 / 2610 5160  
E-mail: [ircwebinardelhi@gmail.com](mailto:ircwebinardelhi@gmail.com) and  
[ad.irc-morth@gov.in](mailto:ad.irc-morth@gov.in)

**Note: This form can also be download from IRC website: [www.irc.nic.in](http://www.irc.nic.in)**

**[REGISTER  
NOW](#)**