



सत्यमेव जयते

Ministry of Road
Transport and
Highways



International Seminar

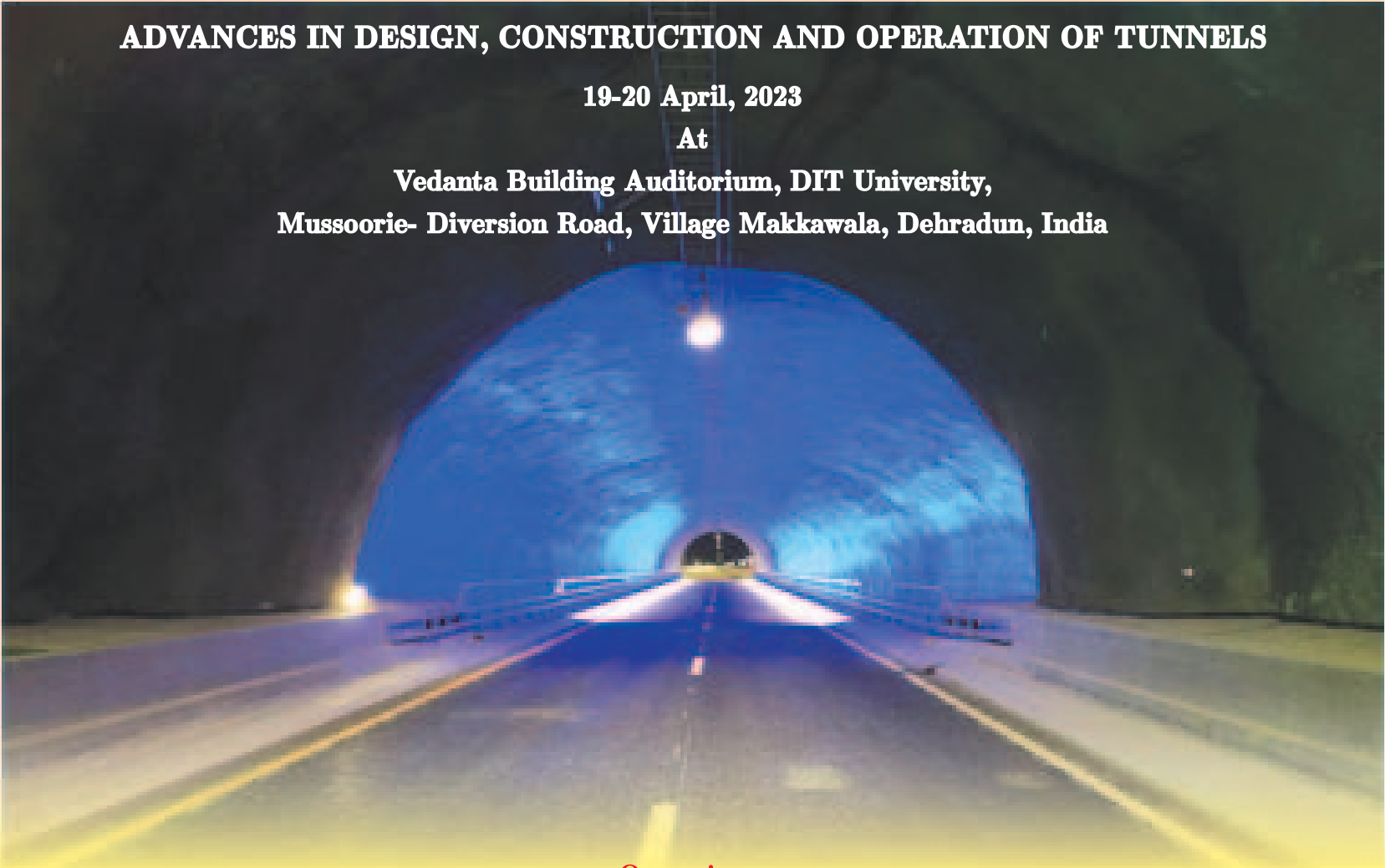
on

ADVANCES IN DESIGN, CONSTRUCTION AND OPERATION OF TUNNELS

19-20 April, 2023

At

**Vedanta Building Auditorium, DIT University,
Mussoorie- Diversion Road, Village Makkawala, Dehradun, India**



Organizer:

Ministry of Road Transport and Highways, Govt. of India

Organizing Partners:

**Indian Roads Congress (IRC)
World Road Association (PIARC)**



उत्तराखण्ड शासन

**Supported by:
Govt. of Uttarakhand
&**

International Tunneling and Underground Space Association



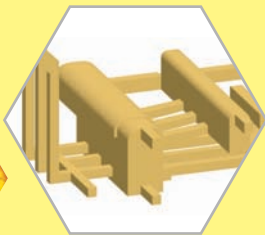
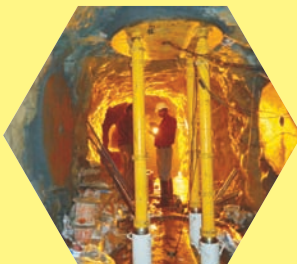
Think Instrumentation. Think Aimil.



Advanced Technology & Engineering Services (Consultancy Division)



- 2D & 3D Numerical Analysis and Design- (Geotechnical)
 - Underground Metro Stations
 - Underground Powerhouse Cavern and interconnecting tunnels/adits
 - Seepage and stability analysis and design of Tailing Dams and Earthen Dams
 - Tunnel Design & Analysis
 - Hill Slope Stability & Landslide Mitigation
 - Foundation Design & Analysis
- Soil, Rock & Construction Material Testing (NABL Accreditation No. TC 7287)
- All major field Geotechnical Investigations
- Non-destructive Health Monitoring of Civil Structures (NABL Accreditation No. TC-9342)
- Geophysical Surveys for infrastructure projects
- Toposurvey and Geological Survey and surface mapping



IoT based Instrumentation & Monitoring for Tunnels

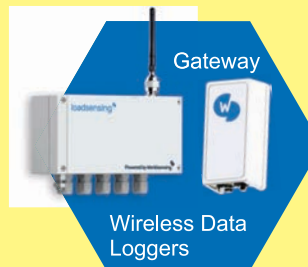
- VW Sensor / MEMS IPIs
- Digital Wireless Data Logger (LoRa)
- Gateway / Data Logger
- Embedded Nodes for TBM Segment Monitoring
- AIDA Artificial Intelligence Data Analytics Software

NATM - Tunnel (I & M)

- VW Piezometer / MPPX / Pressure Cell / LC / IPIs / Optical Targets / Stress Cell

Portal Instrumentation

- MEMS IPI / Piezometer / Wireless Nodes & Gateway



IoT based solution



For further information, please contact us:

E-mail: delhi@aimil.com | Tel: 91-11-6131 0244 | www.aimil.com

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- Delhi (H.O.) • Mumbai • Bengaluru • Kolkata • Chennai • Vadodara
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- Nagpur • Pune • Bangladesh • Lucknow • Kochi • Thiruvananthapuram

Aimil/Ad/Civil/22-23/03/20

Instrumentation & Technologies

International Seminar on Advances in Design, Construction and Operation of Tunnels

Organizer:

Ministry of Road Transport and Highways, Govt. of India

An Apex Organisation under the Central Government, is entrusted with the task of formulating and administering, in consultation with other Central Ministries/Departments, State Governments/UT Administrations, organisations and individuals, policies for Road Transport, National Highways and Transport Research with a view to increase the mobility and efficiency of the road transport system in the country.

Organizing Partner:

Indian Roads Congress

The Indian Roads Congress (IRC) is the Apex Body of Highway Engineers & Professionals in the country working in close collaboration with the Ministry of Road Transport & Highways, New Delhi. IRC was setup in 1934 and the Engineers working in Central/ State Govt. Dept. viz, MoRTH; NHAI; NHIDCL; BRO; MES, NRRDA; CPWD; MoRD; MoUD, State /UT PWDs; PSUs; IITs & Engineering Colleges; Research Organizations; Contractors; Consultants, etc. are members of IRC. IRC is presently having membership of 18870 engineers.

The main objective of IRC is to set up/formulate Standards, Codes, Specifications, Manuals etc. for adoption by Central / State Govt. road agencies to construct and maintain sustainable road infrastructure for overall development of the country. In addition, IRC also organize various events viz, Mid-Term Council Meetings; Annual Sessions; International Seminars; Regional Workshops; etc at various locations in India in order to disseminate and propagate technical knowledge and make highway professionals aware about current state of art practices, specifications, guidelines, cutting-edge environmental friendly technology, etc.

World Road Association (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 Vision of the Association is to be the world leader in the exchange of knowledge on roads and road transport policy and practices within an integrated sustainable transport context.

Supported by:

Public Works Department (P.W.D), Government of Uttarakhand:

Lok Nirman Vibhag popularly known as P.W.D. has a legacy of more than 130 years. P.W.D. is responsible for construction, maintenance and planning of roads, bridges and Govt. Buildings. In view of strategic location of Uttarakhand bordering China/Tibet & Nepal, the responsibility of P.W.D. is vital.

INTERNATIONAL TUNNELLING AND UNDERGROUND SPACE ASSOCIATION (ITA):

Founded in 1974 by the initiative of nineteen Nations, the INTERNATIONAL TUNNELING AND UNDERGROUND SPACE ASSOCIATION (ITA). Its aims are:

- to encourage the use of the subsurface for the benefit of public, environment & sustainable development and
- to promote advances in planning, design, construction, maintenance and safety of tunnels and underground space, by bringing together information thereon and by studying questions related thereto.
- Since then, ITA has considerably developed. Presently, ITA gathers 78 Member Nations and 266 Corporate or individual Affiliate Members.

The General Assembly, which met annually, resolves all questions concerning the organisation and conducts of the affairs of the Association; it shall approve the budget of receipts and expenditure, and appoint and organise all Committees of the Association; it shall decide on the admission of new adhering national organisation and of the new affiliate member.

The General Assembly is hosted by a Member Nation at the occasion of the yearly World Tunnel Congress.

पीवीवीएसएस रवि प्रसाद

महानिदेशक (सड़क विकास) एवं
विशेष सचिव

PVVSS RAVI PRASAD

Director General (Road Development) &
Special Secretary
Tel.: 011-23739088
E-mail : dgrdss-rth@nic.in



Invitation



PVVSS Ravi Prasad

भारत सरकार
सड़क परिवहन एवं राजमार्ग मंत्रालय
1, संसद मार्ग, नई दिल्ली-110001
Government of India
Ministry of Road Transport & Highway
Transport Bhawan
1, Parliament Street, New Delhi-110001

Dear Colleague,

It gives me immense pleasure in informing you that Ministry of Road Transport & Highways is organizing an International Seminar on "Advances in Design, Construction and Operation of Tunnels" in co-operation with the Indian Road Congress & World Road Association (PIARC) with the support of Govt. of Uttarakhand & International Tunneling and Underground Space Association on 19th & 20th April, 2023 at DIT University, Mussoorie-Diversion Road, Village Makkawala, Dehradun (Uttarakhand), (India).

In this International Seminar, representatives from various Central Govt. Departments and State PWDs, PSUs, IITs, Engineering Colleges, Contractors, Consultants etc., will participate and discuss various current issues/problems in construction of tunnels and deliberate on practical solutions to overcome these issues besides bringing forth innovative ideas towards Construction and Rehabilitation of tunnels. A good number of delegates from developed countries are also likely to participate in this International Seminar which will give exposure to international best practices in design, construction and rehabilitation of tunnels.

I cordially invite you to this International Seminar at Dehradun (India) and look forward to your active participation in the deliberations.

With Best Wishes,

(Ravi Prasad)



SANJAY KUMAR NIRMAL
SECRETARY GENERAL, IRC



भारतीय सड़क काँग्रेस
कामा कोटि मार्ग, सेक्टर-6
रामा कृष्णा पुरम, नई दिल्ली-110 022 (भारत)
INDIAN ROADS CONGRESS
Kama Koti Marg, Sector-6,
R.K. Puram, New Delhi-110 022 (INDIA)
Tele. : +91 112618 5303
E-mail : secygen.irc@gov.in



Sanjay Kumar Nirmal

Dear Colleague,

On behalf of the Indian Roads Congress, I would like to welcome you all to the International Seminar on "Advances in Design, Construction and Operation of Tunnels" being organised by the Indian Roads Congress on behalf of Ministry of Road Transport and Highways on 19th & 20th April, 2023. We do anticipate a very interesting Seminar with a lot of exciting presentations and likely interaction amongst the delegates.

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 a need to organise an International Seminar on 'Advances in Design, Construction and Operation of Tunnels' for the benefit of Highways Professionals, Government Officers, Designers, Consultants, Researchers, Academicians, Students & Research Scholars, Material & Machinery Manufacturers, Device Manufactures, etc across the globe.

(S.K. Nirmal)

ABOUT THE SEMINAR

The 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 a need to organize an International Seminar on 'Advances in Design, Construction and Operation of Tunnels' for the benefit of Highways Professionals, Government Officers, Designers, Consultants, Researchers, Academicians, Students & Research Scholars, Material & Machinery Manufacturers, Device Manufactures, etc. across the globe.

~ Venue ~



**DIT University, Mussoorie-Diversion Road, Village Makkawala,
Dehradun (Uttarakhand), India**

HOW TO REACH DEHRADUN

❖ By Air:

- **Nearest Airport: Dehradun (DED) (also known as Jolly Grant Airport)**
 - Areal Distance from Delhi ~205 km
 - Travel time from Delhi ~ 1 Hour
 - Dehradun Airport to Hotel Jaypee Residency-55 km by road (~1 Hour travel time)
 - Dehradun Airport to DIT University - 40 km by road(~ 50 min. travel time)

❖ By Rail:

- **Nearest Rly Station: Dehradun (DDN)**
 - Travel time from Delhi ~ 5-1/2 Hours
 - Delhi Airport (T-3) to New Delhi Railway Station(NDLS)~21 km by road (~ 50 min. travel time)
 - Dehradun Rly Stn. To Hotel Jaypee Residency- 28 km by Road (~1 Hour)
 - Dehradun Railway Stn. to DIT University - 12.4 km by Road (~ 35 Minutes)

❖ By Road:

- Distance from Delhi ~ 248 km
- Travel Time from Delhi ~ 5 Hours

Note:

- (i) A help desk has been planned at the Dehradun Airport and Railway Station.

3.1 Direct Flights from Delhi to Dehradun

1. Alliance Air – 6.20-07.20 IST Non-stop
2. Alliance Air – 12.30 -13.30 IST Non-stop
3. Indigo– 8.20-09.15 IST Non-stop
4. Indigo– 13.55- 15.00 IST Non-stop
5. Indigo– 16.55- 17.45 IST Non-stop
6. Indigo– 18.15- 19.05 IST Non-stop
7. Vistara – 14.00- 14.50 IST Non-stop

3.2 Delhi to Dehradun Train Details :

Train	Train Name	From	Dep.	Date	To	Arr.	Date	Travel
12055	DDN JANSHTBDI	NDLS	15.20	16-04	DDN	21.10	16-04	05.50
12401	KOTA DDN EXP	NZM	23.50	16-04	DDN	05.45	17-04	05.55
12017	DDN SHTBDI EXP	NDLS	06.45	16-04	DDN	12.55	16-04	06.10
14317	INDB DDN EXP	NZM	11.40	16-04	DDN	19.45	16-04	08.05
14041	MUSSOORIE EXP	DLI	22.25	16-04	DDN	08.25	17-04	10.00

IRCTC Official link for Train Ticket Booking : <https://www.irctc.co.in/nget/train-search>

PROGRAM-AT-A-GLANCE

Tuesday, the 18th April, 2023	
16.00-17.00	Press Conference
17.00-20.00	Registration
Wednesday, the 19th April, 2023	
08.00-10.00	Registration
10.00-11.30	Inaugural Session
11.30-12.00	High Tea
Parallel Sessions: (A) Design & Construction (B) Operation, Safety and Maintenance	
12.00-13.30	<p>Session-2A: Conceptual Planning & Design for Road Tunnels</p> <ol style="list-style-type: none"> 1. Presentation on “Design of the Tunnel as a System (Dutch Approach) by Mr. Ronald Mante (PIARC TC4.4 WG2-leader, Netherlands) 2. Presentation on “Challenges in Conceptual Planning and Design for Road Tunnels in India” by Mr. Deepak Goel & Mr. Prashant Navalakha (ILF India) 3. Presentation on “Planning and Design of Underwater Tunnel across Brahmaputra” by Mr. R K Dhiman, Mr. Rahul Gupta & Mr. Shwetabh Singh (India)
12.00-13.30	<p>Session-2B: Ventilation and Fire Protection</p> <ol style="list-style-type: none"> 1. Presentation on “Ventilation Design and Strategy for Specific Geographic Challenges” by Mr. Peter Sturm (Graz University of Technology, PIARC TC4.4 WG4 Leader, Austria) 2. Presentation on “Particularities of Ventilation Design and Installations in High Mountain Tunnels” by Mr. Frédéric Waymel (Egis, PIARC TC4.4 WG4 Member, France) 3. Presentation on “Fire Protection” by Mr. Nalin Doshi, Vimal Fire Controls Pvt. Ltd. (India)
13.30-14.30	Lunch Break
14.30-16.00	<p>Session-3A: Geotechnical and Geophysical Investigation</p> <ol style="list-style-type: none"> 1. Presentation on “Geotechnical Investigations for Road Tunnel Projects” by Dr. Manoj Verman (India) 2. Presentation on “Geomechanical Investigations for Long Tunnels in Mountainous Area” by Mr. Bernard Falconnat (Egis, PIARC TC4.4 member, France): 3. Presentation on “Geophysical Investigations for Road Tunnels” by Dr. V.M. Tiwari, NGRI (India)
14.30-16.00	<p>Session-3B: Sustainable Road Tunnel Operation</p> <ol style="list-style-type: none"> 1. Presentation on “Sustainable Design for Road Tunnels - How Small Decisions during Planning Phase Can Impact the Operational Costs During Tunnel Life Cycle” by Mr. Ricardo Miranda (PIARC TC4.4 Member, ITACOSUF Member, Brazil) 2. Presentation on “Consideration of Sustainable Aspects for a Positive Energy Road Tunnel” by Rene List (PIARC TC4.4 Member, Austria) 3. Presentation on “Sustainable Road Tunnels” by Mr. George Mavroyeni (PIARC TC4.4 member, Australia)
16.00-16.30	Tea/Coffee Break
16.30-18.00	<p>Session 4A: Latest Developments in Tunnel Construction</p> <ol style="list-style-type: none"> 1. Presentation on “NATM Tunnelling Incl. Instrumentation & Monitoring” by Speaker from ITA 2. Presentation on “Permanent Lining Material” by Speaker from ITA 3. Presentation on “TBM Tunnels incl. Instrumentation & Monitoring” by Mr. Nitin Garg, Director - Business Development, Herrenknecht India Pvt. Ltd.

16.30-18.00	<p>Session 4B: Safety Issues</p> <ol style="list-style-type: none"> 1. Presentation on “Tunnel Lighting Systems” by Mr. Pierre Longtin (PIARC TC4.4 Member, Canada-Quebec) 2. Presentation on “Self-evacuation Process incl. Reduced Mobility Users” by Mr. Helene Mongeot (PIARC TC4.4 & ITA Cosuf Member, France) 3. Presentation on “New Digital Approaches for Safe Operation of Tunnels” by Mr. Arild Søvik (PIARC TC4.4 & ITA Cosuf Member, Norway)
19.00 onwards	Cultural Programme
20.00 onwards	Dinner
Thursday, the 20th April, 2023	
10.00-11.30	<p>Session 5A: Contractual Issues / Risk Management</p> <ol style="list-style-type: none"> 1. Presentation on “Extra Ordinary Geological Occurrences (EGOs)” by Mr. Matthias Neuschwander (ITA WG3 leader, Switzerland) 2. Presentation on “Contractual Issues & Risk Management- Atal Tunnel” by Col. Parikshit Mehra, BRO (India) 3. Presentation on “ Contractual Issues” by Mr. Arnold Dix (President, ITA)
10.00-11.30	<p>Session 5B: Risk Management</p> <ol style="list-style-type: none"> 1. Presentation on “Risk-Based Decision Making” by Mr. Bernhard Kohl (PIARC TC4.4 member, Austria) 2. Presentation on “Implementation of “Safety Management Systems”: An Innovative Approach Dedicated to Safe Road Tunnels Operation” by Mr. Helene Mongeot (PIARC TC4.4 & ITA Cosuf member, France) 3. Presentation on “Alternative Fuels and Propulsion Systems Impact on Safety and Operation” by Peter Sturm (To be announced)
11.30-12.00	Tea/Coffee Break
12.00-13.30	<p>Session-6A: Case Studies on Road/Rail Tunnel Projects -Part 1</p> <ol style="list-style-type: none"> 1. Presentation on “ Brahmaputra Underwater Tunnel ” 2. Presentation on “ Qazikund Banihal Tunnel” by Mr. Manoj Kumar (Member, NHAI) 3. Presentation on “57 km Railway Tunnel between Lyon and Turin under the Alps” by Lucy Rew (Egis, ITA-Member, UK)
12.00-13.30	<p>Session-6B: Case Studies on Road Tunnel Projects - Part I</p> <ol style="list-style-type: none"> 1. Presentation on “Kashedi Tunnel: A Green Field Tunnel with Viaducts” by Mr. Deepak Goel & Mr. Prashant Navalakha (ILF India) 2. Presentation on “Case Study about A Project with FFFS” by Max Lakkonen (IFAB, ITA Cosuf, Germany) 3. Presentation on “Sao Paulo Fire Fighting Strategies” by Mr. Ricardo Miranda (PIARC TC4.4 Member, Brazil)

13.30-14.30	Lunch Break
14.30-15.30	Session-7A: Case Studies on Road/Rail Tunnel Projects Part 2 <ol style="list-style-type: none"> 1. Presentation on “Design concept of Road Tunnel against Earthquake in Japan” by Mr. Nobuharu Isago (PIARC TC4.4 Member, Japan) 2. Presentation on “Long Subsea Tunnels” by Mr. Arild Sovik (PIARC TC4.4, ITA-Cosuf Member, Norway) 3. Presentation on (Zojila tunnel) Mr. Atul Kumar/Mr. G.B Nagendra (USBRL)
14.30-15.30	Session-7B: Case Studies on Road Tunnel Projects - Part II <ol style="list-style-type: none"> 1. Presentation on “Annie-Cordy Tunnel Refurbishment & Modernization of the Brussels Road Tunnel Control Center” by Mr. Arthur Kabuya (PIARC TC4.4 WG1 Leader, Belgium) 2. Presentation on “Smart Tunnel in Malaysia/Penang Undersea Tunnel” by Mr. IR. Chan Sai Chok, (MD Perunding Eagles Engineers Sdn Bhd. Malaysia) 3. Presentation on “Road Tunnels Controlling in the Centre of Prague” by Mr. Lukáš Rákosník (PIARC TC4.4 Member, Czech Republic)
16.00-16.30	Tea/Coffee Break
16.30-18.00	Valedictory Session
Friday, the 21st April, 2023	
09.00	Technical Site Visit

SPONSORSHIP RATE

Sponsors and Co-sponsor are invited from Government organizations, Concessionaries, Contractors, Consultants and Manufacturers etc. The structure fee is as follows, which, may be sent by Demand Draft/crossed cheques drawn in favour of the Secretary General, IRC or through NEFT/RTGS.

RATES FOR SPONSORSHIP, CO-SPONSORSHIP

- | | |
|---|----------------------------------|
| 1. Platinum Sponsor (with Ten free delegates) | Rs. 20,00,000/- inclusive of GST |
| 2. Gold Sponsor (with five free delegates) | Rs. 15,00,000/- inclusive of GST |
| 3. Sliver Sponsor (with three free delegates) | Rs. 10,00,000/- inclusive of GST |
| 4. Bronze Sponsor (with two free delegate) | Rs. 5,00,000/- inclusive of GST |

RATES FOR EXHIBITION STALL SIZE 3X3 (MTRS.)

1. Stall Size 3x3 Mtrs.	Rs.3,00,000/- inclusive of GST (Two persons will be allowed to participate free of cost during the Event) (Depending on the response)
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REGISTRATION FEE

The Central/State Government Departments, Consultants, Concessionaries, Contractors and other stake holders may nominate the delegates for this International Seminar.

The Rates of Registration for the Seminar are as under:

Category of Delegates	Registration fee including GST	
	Self	Spouse
A. Delegates from India		
1. Official Government Delegates		
a) Senior (EE & above)	Rs.9000.00	Rs.5000.00
b) Junior (below EE)	Rs.7000.00	Rs.5000.00
2. Officials of Public and Private Sector Undertakings/Companies, etc.	Rs.9000.00	Rs.5000.00
3. Individuals (Not nominated by the Government/Public and Private Sector Undertakings/Companies, etc.)	Rs.7000.00	Rs.5000.00
4. Student Member	Rs.2000.00	--
5. International Participants (for the Members of PIARC & ITA)	700 US \$	300 US \$
6. International Participants (non-members/private sector)	850 US \$	300 US \$

ACCOMMODATION

Delegates are requested to make their own arrangements for travel and accommodation. The details of Hotel with Tariff is at **Annexure-I**

For more information please contact:

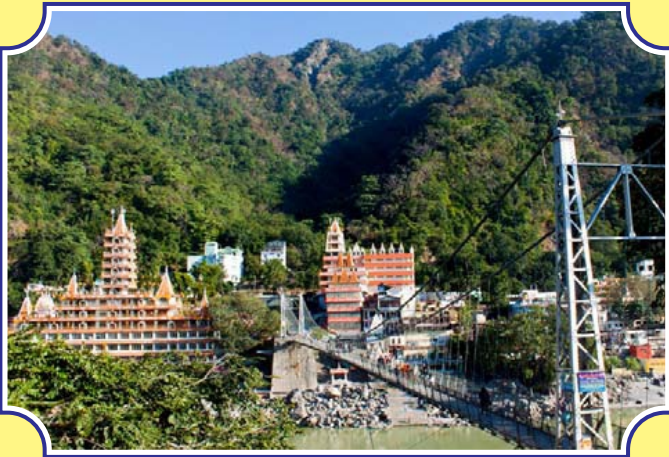
Indian Roads Congress Secretariat

Kama Koti Marg, Sector-6,
R.K. Puram
New Delhi-110 022

INDIAN ROADS CONGRESS

S.K. Nirmal Secretary General	Phone: 011- 26185303 E-mail: secygen.irc@gov.in
Rahul Patil Deputy Director (T)	Phone: 011-26185273 E-mail: tc.irc@gov.in
Mukesh Dubey Under Secretary (Finance)	Phone: 011-26185315 E-mail: ircfinance2017@gmail.com
Anil Sharma Under Secretary (Membership, Journal & Indian Highways)	Phone: 011-23387140 E-mail: paper.irc-morth@gov.in
Ajay Kumar Bhalla Under Secretary (Admn.)	Phone: 011-26171548 E-mail: admn.irc-morth@gov.in
Rajneesh Katoch Section Officer (Admn.)	Phone: 011-26171548 E-mail: ircseminar1934@gmail.com

Places of Interest in Uttarakhand



1. Rishikesh – The Adventure and Yoga capital



2. Haridwar – Blessed by Ganga



3. Dehradun – The Capital City of the Uttarakhand



4. Nainital – Gets its Identity from Mesmerizing Naini Lake



5. Mussoorie



4. Jim Corbett National Park – The Natural Habitat of Royal Bengal Tigers

LIST OF HOTELS

S. No	Hotel Name	Contact No. and Email	Room Type Single/ Double Room	Rates/ Per Day	GST	Room Rates including GST Per Day
1	Fairfield By Marriott Dehradun	Shri Aditya P Singh 8077732308 0135 6620222 Aditya.singh3@fairfieldinn. com	Standard (Twin & King) on single	7700	18%	9,086
			Standard (Twin & King) on double	8200		9,676
			Deluxe (Twin & King) on single	9000		10,620
			Deluxe (Twin & King) on double	9500		11,210
2	Hyatt Regency Dehradun	Shri Vivek Singh 7217015125 Vivek.singh1@hyatt.com	Single : Regency (King/Twin)	15000	18%	17,700
			Double : Regency (King/Twin)	15500		18,290
3	Four points by Sheraton	Shri Dharamraj Singh 8171 999 263 Dharamraj.Singh@ marriott.com	Single	9000	18%	10,620
			Double	10000		11,800
4	Lemon Tree Hotel	Shri Sahil Snower 8979939162 Ados.dn@lemontreehotels. com	Single	7000	18%	8,260
			Double	8500		10,030
5	Hotel Madhuban	Shri M Khanduri 9837388699 sm@hotelmadhuban.com	Single	4500	12%	5,040
			Double	5500		6,160
6	Sarovar Portico Dehradun	Shri Mayank Rawat 0135-6616900 fom@ sarovarporticodehradun. com	Single	4200	12%	4,704
			Double	4800		5,376
7	Red Fox Hotel	Shri Shashank Chand 6397501003	Single	4500	12%	5,040
			Double	5000		5,600
8	Keys Prima Aketa	Shri Pranesh Singh Rana 9319096123 Sales1dn.keys@ lemontreehotels.com	Single	5000	12%	5,600
			Double	5500		6,160

Registration Fee :

Category of Delegates	Registration fee including GST	
	Self	Spouse
1. Official Government Delegates a) Senior (EE & above) b) Junior (below EE)	Rs.9000.00 Rs.7000.00	Rs.5000.00 Rs.5000.00
2. Officials of Public and Private Sector Undertakings/Companies, etc.	Rs. 9000.00	Rs. 5000.00
3. Individuals (Not nominated by the Government/ Public and Private Sector Undertakings/Companies, etc.)	Rs.7000.00	Rs.5000.00
4. Student Member	Rs. 2000.00	–
5. International Participants (for the Members of PIARC & ITA)	700 US \$	300 US\$
6. International Participants (non-members/private sector)	850 US \$	300 US\$

Payment Mode :

Demand draft/cheque No. _____ Dated _____ issued by _____ drawn in favour of Secretary General, IRC payable at New Delhi amounting Rs. _____ as Registration fee is enclosed. The payment can also be sent through NEFT/RTGS. The bank details are available on IRC Website www.irc.nic.in	
Date _____	Signatures _____
For Office Use Only	
Receipt No : _____	Dated : _____
Amount (Rs.) : _____	



सत्यमेव जयते
Ministry of Road
Transport and
Highways



INTERNATIONAL SEMINAR

on

ADVANCES IN DESIGN, CONSTRUCTION AND OPERATION OF TUNNELS

on 19th – 20th April, 2023, DIT, University, Mussoorie-Diversion Road,
Village Makkawala, Dehradun, Uttarakhand

ACCOMMODATION FORM

The Under Secretary (Admn.)
Indian Roads Congress,
Kama Koti Marg, Sector-6, R.K. Puram
NEW DELHI - 110 022

Telephone No. : 011-26171548
Email : ircseminar1934@gmail.com
: admn.irc-morth@gov.in
Website : www.irc.nic.in

IRC Membership No. :	_____
Name :	_____
Designation :	_____
Organization :	_____
Address :	_____

_____ Pin Code : _____	

Telephone Nos. with (STD) Code	
Office : _____	Residence : _____
Fax : _____	Mobile : _____
Email : _____	

Name of Spouse (If accompanying)		Age	Veg [V] / Non-veg [N]		
1.					
2.					
Arrival Date			Departure Date		
Mode	Air / Train / Bus / Car		Mode	Air / Train / Bus / Car	
Flight No.	Time	Date	Flight No.	Time	Date
Airport:			Airport:		
Train Name	Time	Date	Train Name	Time	Date
Class	Station		Class	Station	
Bus	Time:	Date:	Bus	Time:	Date:
Car	Time:	Date:	Car	Time:	Date:
Accommodation: Name of Hotel					





JK PRESTRESSING CO.

POST TENSION MATERIAL & EQUIPMENTS



JK Multipull Prestressing Jack & Power Pack



JK Metallic Sheathing



JK Grout Pump & Agitator



JK Void Former, Coupler & End Cone



JK HDPE Sheathing



JK HDPE Flat Sheathing



JK Anchor Cone & Anchor Head



JK Dead End Anchorage



JK Flat Anchorages



JK Rubber Bunk/Rubber Cap



JK Single Pull Jack



JK Multi Use Wedge & Barrel



JK Hydraulic Jack with Hand Pump



JK Live Wedges

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