

**INDIAN ROADS CONGRESS**  
**79<sup>th</sup> ANNUAL SESSION, NAGPUR (MAHARASHTRA)**  
**22<sup>ND</sup> TO 25<sup>TH</sup> NOVEMBER, 2018**

**TENTATIVE DETAILED PROGRAMME**

**Venue : Divisional Sports Complex Stadium, Mankapur Road, Nagpur**

<b>WEDNESDAY, THE 21<sup>ST</sup> NOVEMBER, 2018</b>		<b>VENUE</b>
10:00–18:00	Local Registration/Membership	
16:00-17.00	Press Conference	
<b>THURSDAY, THE 22<sup>ND</sup> NOVEMBER, 2018</b>		
08:00-17:00	Registration/Membership	
10:00–11:00	Inauguration of Technical Exhibition	
11.00-13.00	<b>216<sup>th</sup> Council Meeting of IRC</b>	
11.00-13.00	<p><b>Technical Session-1 Presentation by Research Scholars/ students of IIT/ Engineering Colleges (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) Innovative Pavement Layers for Strengthening of Existing Bituminous Pavements for National Highways: Construction Experiences by Anil Kumar Baditha and Venkata Jogarao Bulusu, Research Scholars Transportation Engineering of IIT Kharagpur</li> <li>ii) Walk Accessibility to Metro stations: Role of Microscale Built Environment Factors by G.R. Bivina, Research Scholar, IIT, Roorkee</li> <li>iii) "Prioritisation of Road Safety Measures" by Mr. Shawon Aziz, Student SPA, Delhi</li> <li>iv) Heat Induced Healing Technology for Rehabilitation of Top Down Cracking in Bituminous Pavements by Priyadarshini Saha Chowdhury, N S L Aparna, Reserach Scholars &amp; Narmeta Shashank- B Tech Student of IIT Kharagpur.</li> </ul>	
13:00–14:00	Lunch	
14.00-15.30	<b>Council Meeting Contd....</b>	
14.00-15.30	<p><b>Technical Session-2 Presentations by Scientist / officers from R&amp;D Organizations (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) "Cement Grouted Bituminous Mix for Urban Roads" - Shri Manoj Kumar Shukla, Principal scientist, CSIR-CRRI, New Delhi</li> <li>ii) "VISION ZERO – Way Forward to Safe Mobility by Dr A. V. Mannikar, Sr Depuy Director, Automotive Research Association of India (ARAI), Pune</li> <li>iii) "Utilization of Waste Plastic in Road Construction" by Dr. Mahesh Kasture, Corporate R&amp;D Centre, BPCL, Greater Noida</li> </ul>	

	iv) “Research Study to improve Utilization of Crushed Stone Sand (M- Sand) as an alternative to River Sand” by Er M Anandaraj, ME, Concrete Laboratory, Highways Research Station Chennai	
14.00-15.30	<p><b>Technical Session-3 Case study Presentations by Contractors/ Concessionaires, Consultants, International organizations (Parallel Session)</b></p> <p>i) “Road Accident Database System - Implemented Experience in Himachal Pradesh” by Shri Tony Mathew Country Manager (India), TRL</p> <p>ii) “Road Safety Assessment under IndiaRAP and progress updates” by Shri Jigesh Bhavsar, Technical Manager, IndiaRAP</p> <p>iii) “Early Warning for Mountainous Highways – Japanese Experience” by Shri Michiya KITAYAMA, JICA Expert</p> <p>iv) Perspective of M/s IRB &amp; Way Forward ,Shri Ajay Deshmukh</p> <p>v) “Risk Management in Highway Tunnel Construction” by Shri A.K. Shrivastava, Ex ADG, MoRTH</p>	
15.30-16.00	<b>Tea</b>	
16.00-18.00	<b>Council Meeting Contd....</b>	
16.00-19.00	<p><b>Technical Session-4 Presentation by Private Stake Holders ( equipment/ machinery/ material / software , etc Manufactures )</b></p> <p>i) “Advanced tools for Infrastructure Design and Asset Management” by Neeraj Chadha, Director, Complete Instrumentation Solutions Pvt Ltd ( Haryana)</p> <p>ii) “Professional Reinforcement Solutions – Roads from the Future” by Mr. Santosh Kumar Srivastava, President and Arvind Kumar, Asst. Highways Designer M/s Mtandt Limited, Mumbai</p> <p>iii) “Optimization of Rigid Pavement using of Silica Fumes in PQC Mixes” by Mr. Saurabh Aggarwal, M/s Elkem South Asia Pvt. Ltd., Delhi</p> <p>iv) "Concrete Roads Reinforced with Poly Fibre". by Mr. Rajiv Gauri, Assistant Vice President, Reliance Industries Limited , M/s Shivananda Marketing (P) Ltd. New Delhi.</p> <p>v) “Waterproofing &amp; Innovation for Preventive Maintenance of Roads” by Mr. Hasan Rizvi , Sr. Vice President, M/s STP Ltd , New Delhi</p> <p>vi) M/s Maccaferri Environmental Solutions Pvt. Ltd., Navi Mumbai by Mrs Mini Korulla</p> <p>vii) "Innovative Solutions for Good Roads." by Mr Sumit Gudesar. National Sales Head, M/s TikiTar Industries Ltd. Vadodara, Gujrat.</p>	

	<p>viii) “Advance Technologies for Transportation Engineering” by Mr. Chandrashekhar Sayankar &amp; Mr. Halvard Haugland, M/s Ceinsys Tech Limited, Nagpur</p> <p>ix) “Advancement of Machinery for Speed Up the Production for Road Construction” by Mr. Martinho J. Fernandes, M/s Ammann India Pvt. Ltd., Gujarat</p> <p>x) M/s Mahindra &amp; Mahinda Ltd. Mumbai ,Mr.Ruchir Agarwal, Head Marketing</p> <p>xi) “Innovative Solutions for Good Roads" by Mr Sumit Gudesar, National Sales Head. Tikitar Industries (Baroda) Ltd., M/s Hindustan Colas Pvt. Ltd., Mumbai.</p> <p>xii) “Water resistant durable roads with silane nanotechnology” by Mr. Himanshu Agarwal , Senior Vice President – International Marketing –Roads, M/s Zydex Industries Pvt. Ltd., Vadodara</p> <p>xiii) M/s Tata Steel Limited, Kolkata by Mr. Saurabh Kumar, Senior Manager and Mr. Pankaj Ojha, Head Marketing at Industrial Products, Projects &amp; Exports division</p>	
19:00 onwards	Cultural Programme	
20:00 onwards	Dinner	
<b>FRIDAY, THE 23<sup>rd</sup> NOVEMBER, 2018</b>		
08:00–17:00	Registration/Membership	
08:30–10:00	<b>75<sup>th</sup> Meeting of Highway Research Board</b>	
10.30– 12.00	<b>Inaugural Function of 79<sup>th</sup> Annual Session of IRC</b>	
	<b>Welcome of Guests &amp; Dignitaries to Dais by Anchor and offering of flower</b>	
	<b>Lighting of Lamp &amp; chanting of Vedas</b>	
	<b>IRC Geet</b>	
	<b>Welcome Address by Chairman LOC, Govt. of Maharashtra</b>	
	<b>Address by Director General (Road Development) &amp; Special Secretary</b>	
	<b>Address by Secretary , Road Transport &amp; Highways</b>	
	<b>Presidential Address by President, IRC</b>	
	<b>Address by Hon’ble PWD Minister, Govt. of Maharashtra</b>	
	<b>Address by Hon’ble Chief Minister, Govt. of Maharashtra</b>	
	<b>Award of Medals &amp; Prizes</b>	
	<b>Release of Souvenir/Publications</b>	
	<b>Inaugural Address by Hon’ble Union Minister for Road Transport, Highways &amp; Shipping</b>	
	<b>Vote of thanks by Secretary General, IRC</b>	
	<b>National Anthem</b>	

12:00–13:00	<b>Meeting of all the State PWD Ministers under the Chairmanship of Hon'ble Union Minister for Road Transport Highways and Shipping</b>	
13.00-14.00	<b>Interaction of Hon'ble Union Minister for Road, Transport, Highways &amp; Shipping with Foreign Delegates</b>	
14.00-14.30	<b>Lunch</b>	
14.30-16.30	<b>Panel Discussion on “Accelerated Construction of Roads and Bridges”</b>  <b>Panelist</b>  i) Prof ( Dr) Ravi Sinha, IIT Bombay ii) Prof. Mahesh Tandon, MD TCPL iii) Shri D O Tawade, Member, NHAI iv) Shri R S Mopalwar, VP & MD, MSRDC Ltd v) Dr K Sudhakar Reddy, IIT Kharagpur vi) Dr V K Raina, Consultant, United Nation & World Bank vii) Shri Pankaj Jain, M/s Dilip Buildcon	
16.30-17.00	<b>Tea</b>	
17.00-18.30	<b>Expert Talk</b>  i) “Pavement Management System” by Dr Arudi (Raj) Rajagopal, President, INFRAME, OHIO, USA ii) “Cost Effective Crash Reduction by Maintaining an Appropriate Skid Resistant Surfacing” by Dr David M Cook, Skid Resistance Consultant, New Zealand iii) “iRAP - Global Success Stories and India RAP by Mr. Greg Smith, Managing Director, Strategic Projects	
19:00 onwards	Cultural Programme	
20:00 onwards	Dinner	
<b>SATURDAY, THE 24<sup>th</sup> NOVEMBER, 2018</b>		
08:00–17:00	Registration/Membership	
09:30-11:00	<b>Principal Secretaries/Secretaries (PWD)/E-in-Cs/CEs Meeting</b>	
09:30-11:00	<b>Technical Session-5 Presentation on GRRRI – Road Research Work done in India and Presentation by Private Stake Holders (Parallel Session)</b> <b>A) GRRRI</b> i) Chapter on Highway Planning, Design, Management, Performance Evaluation, Instrumentation Pavement Engg, Paving Materials and Geotechnical Engineering" - Shri. Manoj Kumar Shukla, Sr. Principal Scientist, CSIR-CRRI, New Delhi. ii) Chapter on "Bridge Engineering"- Shri. Rajeev Goel , Senior Principal Scientist, CSIR-CRRI, New Delhi. iii) Chapter on "Traffic & Transportation" Dr Kayitha Ravinder, Principal Scientist, CSIR-CRRI, New Delhi. <b>B) Private Stakeholders</b>	

	<ul style="list-style-type: none"> <li>iv) <b>“Sliding pendulum bearings &amp; application in India”</b> by Dr. Agostini Marioni from Itlay, M/s Ceco Bearings., Merrut</li> <li>iv) <b>“Global Experience with Reactive Terpolymers” – For the Indian Roads</b> by Dr Otakar Vacin Global Application Technology Leader – Paving &amp; Roads Segment, Dow DuPont , Prague, Europe, M/s EI Dupont India Pvt Limited, Mumbai</li> <li>v) <b>“STONE MASTIC ASPHALT”</b> by Dr. Ing. Gonzalo Oroz, Product Manager Road Construction, German Citizen, M/s Organo Chemical Industries, Mumbai.</li> <li>vi) <b>“Interlocking Blocks- A’Slab”</b> by Athimuthan, Proprietor M/s Aathees Hard Flooring</li> </ul>	
11:00-11:15	Tea	
11:00-16:00	Voting of IRC Members for Election of Council Members under different category	
11:15-13:30	<p><b>Technical Session-6 Presentation on Paper published in IRC Journal (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) <b>Paper No. 672</b> “Temporary Support and Freezing of Bridge Bearings During Balance Cantilever Construction for New Brahmaputra Bridge at Guwahati” by Rakesh K. Mehta, GM; Sudeep Kulkarni, Dy Manager and V.N. Heggade, President (Egg.) L &amp;T</li> <li>ii) <b>Paper No. 673</b> “Repair for Major Cracks in Central 2 Spans of Span Continuous Module of Varsova Bridge Across Vasai Creek on NH-48” by M.L. Gupta, JMD, IRB Ltd. and D A Bhide, VP, Modern Road Marker Pvt. Ltd.</li> <li>iii) <b>Paper No. 677</b> “Bridge cum Bhandhara-An Urgent Need of Time” by C.P. Joshi, Secretary (Road) PWD; Dr. R.K. Ingle, Prof. VNIT Nagpur ; S.S. Bhonge, SE PWD; S.S. Sahutre, EE PWD, and M.I. Shekh AE PWD Maharashtra</li> <li>iv) <b>Paper No 680</b> “ Technical Challenges in Construction of a High Level Bridge Inside a Reservoir Basin: A case Study of Gurupriya Bridge in the State of Odisha” by Er. N.K. Pardhan, E-in-C cum Secretary, and Dr. N.C. Pal, EE, Works Department, Govt. of Odisha</li> </ul>	
11:15-13:30	<p><b>Technical Session-7 Presentation on Paper published in IRC Journal (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) <b>Paper No. 687</b> “Effect of Seasonal Variation on FWD Response on Low Volume Roads” by Prof (Dr) Praveen Kumar, Director, NIT, Delhi; Ashish Walia PhD Scholar and Aditya Chaudhary, M Tech student</li> <li>ii) <b>Paper No 675</b> “Analysis of Driver Behavior at Unsignalized intersections” by Dr. Satish Chandra, Director, CSIR-CRRI and</li> </ul>	

	<p>Dr. Mithun Mohan, Assit. Prof. MES College, Kerala</p> <p>iii) <b>Paper No 682</b> “Implementation of Safe Corridor Demonstration Program (SCDP) in Stretch of NH-20 from Yaragatti to Belgaum” by Dr. Masood Sharief, SE KSHIP, Karnataka and Dr. K.S. Reddy, Secretary, PWD Karnataka</p> <p>iv) <b>Paper No. 674</b> “Application of Intelligent Transport System towards Making Smart City through the Preparation of CMP for Gandhinagar, Gujarat” by Prof. P.K. Sarkar, Director, AITD and Ms. Naina Gupta, Dy Manager, LEA Associate</p>	
13:30-14:30	Lunch	
14:30-16:00	<p><b>Technical Session-8 Presentation on Paper published in IRC Journal (Parallel Session)</b></p> <p>i) <b>Paper No.681</b> “Investigation of Premature Pavement Distresses on Typical National Highways Project” by Prof. P.S. Kandhal, Associate Director, Emeritus (NCAT), Auburn University, and Prof. A. Veeraragavan, IIT, Madras</p> <p>ii) <b>Paper No 676</b> “Salient Attributes of Open Graded Friction Courses towards Enhanced Road Safety in Hilly and High Rainfall Regions of India” by Abhinay Kumar, IIT Guwahati; Rajan Choudhary, Associate Prof. , IIT Guwahati and Sanjay K. Nirmal, Secretary General, IRC</p> <p>iii) <b>Paper No. 679</b> “Application of Foam Bitumen in Asphalt Pavement Recycling :A Case Study” by Dr. Ambika Behl, Sr. Scientist, CRRI; Dr. Siksha Swaroopa Kar, Scientist CRRI; M.N. Nagabhushana, Sr. Principal Scientist, CRRI; Dr. Satish Chandra, Director, CRRI and Manoj Kumar, Pr. Scientist, CRRI</p> <p>iv) <b>Paper No.678</b> “Effect of Extended Dry Lean Concrete Base on Flexural Stresses in Concrete Pavement” by Swarna Suryateja, Ex Student, Dr. M.A. Reddy, IIT Kharagpur and Late Dr. B.B. Pandey, IIT Kharagpur</p>	
14:30-16:00	<p><b>Technical Session-9 Presentation on Paper published in IRC Journal (Parallel Session)</b></p> <p>i) <b>Paper No 683</b> “Repair and Rehabilitation of Bridge Across River Punpun near Obra on Anisabad-Aurangabad-Hariharganj Section NH-98 in Bihar” by Shri N.K. Sinha DG (RD) &amp; SS MoRT&amp;H(Retd.) and President ITC</p> <p>ii) <b>Paper No 686</b> “Planning, Design &amp; Construction of 2x4 Lane Bridge Over River Yamuna for Delhi-Meerut Expressway-Setting a New Benchmark in Fast Track Construction” by Dr. B.S. Singla, CGM, NHAI ;Alok Bhowmick, MD, B&amp;SE Ltd; Sanjay Jain, CEO, B&amp;SE Ltd and Harinder Singh Saini, Project Manager, RK. Infra</p>	

	<ul style="list-style-type: none"> <li>iii) <b>Paper No 684</b> “Clustering Approach for Road Infrastructure” by Dr. M.N. Dakate, Chief Engineer, (PWD) Maritime Board Maharashtra</li> <li>iv) <b>Paper No. 688</b> “Development of Guidelines for the Selection of Pedestrian Crossing Facilities” by Shri Rajat Rastogi , Associate Professor, IIT Roorkee &amp; Udit Jain</li> </ul>	
16:00-16:15	Tea	
16:30-18:00	<p><b>Technical Session-10 Presentation by officers of State Government Departments ( PWDs, Local Bodies, PSUs, etc) (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) “Hybrid Annuity in Highways from Effective Procurement to Effective Delivery” by Dr Masood Sharief, KSHIP, Govt .o Karnataka</li> <li>ii) “Major Activities of Capacity Development Project on Mountainous Highways including Slope Protection” by Shri Shu MORIYAMA, JICA, Expert</li> <li>iii) “Micro-pile Foundation for Bridge in Ladakh Region” by Shri N K Dixit, EE(Civil), Jt Dir (B&amp;T) Border Road Organization</li> <li>iv) “Current Initiative of UPPWD in Road Sector” by Shri V K Singh, E-in-C, &amp; HoD PWD UP</li> <li>v) “Challenges in Excavation of Tunnel in Seri Nallah Fault Zone in respect of Rohtang Tunnel by Lt Col Parikshit Mehra, Jt Dir (B&amp;T), Border Road Organization</li> </ul>	
16:30-18:00	<p><b>Technical Session-11 Presentation by officers of Central Govt Depts, ( MoRTH, NHAI, NHIDCL, NRRDA, etc) (Parallel Session)</b></p> <ul style="list-style-type: none"> <li>i) “NHAI Experience on Bharatmala program and Technology” Initiative by Shri D O Tawade, Member ,NHAI</li> <li>ii) “NHIDCL Experience &amp; Technology Initiative” by Shri Rahul Gupta, ED, NHIDCL</li> <li>iii) “Green Technology Initiative in PMGSY ” by Shri B C Pradhan, Director ( T), NRRDA</li> <li>iv) “Experience of Indian Bridge Management System” by MORTH</li> </ul>	
18:00-19:00	<b>Business Meeting</b>	
19:00	Cultural Programme	
20.00	Dinner	
<b>SUNDAY, THE 25<sup>th</sup> NOVEMBER, 2018</b>		
10.00-11:30	<b>217<sup>th</sup> Council Meeting</b>	
11:30-11:45	Tea	
13:00-14:00	Lunch	
08:00	Dispersal for Site Visit/Post Session Tours for Delegates	