



First ANNOUNCEMENT

International Seminar on

**Reducing the carbon footprint in road
construction**

**India Habitat Centre, New Delhi
India**

17 – 19th February 2011

Supported by

Ministry of Road Transport and Highways, Government of India

Introduction

This seminar is part of World Road Association (PIARC) programme of International Seminars. The overall objective of the programme is to ensure that the roads and road transport related needs of all PIARC member countries are widely recognized with a view to address and tackle outstanding issues and problems.

The Seminar is being organized jointly by the World Road Association and the Indian Roads Congress, with PIARC Technical Committees.

Background

The mitigation of greenhouse gas emissions and the reduction of the consumption of fossil natural resources are now on the agenda of all countries throughout the world and for all sectors of human activity. Road construction is no exception. *Reducing the carbon footprint in road construction* is then a very topical issue which in turn has promoted innovations and a change in number of approaches in design and construction of road infrastructures.

Objective of Seminar

The main objective of the Seminar is to provide a common platform for practitioners to acquire up-to date information on the latest innovative approaches and products which contribute to *reducing the carbon footprint in road construction*, to share experiences and discuss the associated issues and challenges.

Themes

The Seminar will broadly cover the following themes:

I: The context in India – The Highway Development Programme

II: Determination of the carbon footprint of road works

(Modeling, data available, methodology, comparison made between construction works, etc.)

III: Road design for reduction of the carbon footprint

(Design of earthworks and pavement, life-cycle cost analysis, etc.)

IV: Innovative bituminous techniques to reduce energy consumption and reduce greenhouse gas emissions

(Concepts of warm bituminous mixtures, new binders, innovations in emulsions and flux, innovations in hot-mix plants, adaption of standard laying procedures, benefits and experience gained with these techniques, etc.)

V: Use of local materials

(Benefits from stabilization of soils, use of marginal and local materials in earthworks and pavement construction, innovations in hydraulic binders, experience gained in soil stabilization, etc.)

VI: Recycling and preservation of fossil resources

(In-place and in-plant recycling, experience with high RAP content, comparison with conventional methods of rehabilitation regarding the reduction of the carbon footprint, etc.)

Seminar Venue

The seminar will take place 17 – 19th February 2011 at **India Habitat Centre**, New Delhi, India.

Methodology

This International Seminar will comprise 5 technical plenary sessions of half day each.

The plenary sessions will comprise presentations from experts of PIARC Technical Committees, as well as local, regional and international leading/domain experts.

Language

The official language of the seminar will be English

Targeted audience

The targeted audience will be practicing highway professionals from public and private sectors, contractors, concessionaires, consultants, materials suppliers, equipment manufacturers, research institutions and academia.

Tentative Programme

| Day One | |
|---------------|--|
| Time (IST) | Event |
| 09.00 – 10.00 | Registration |
| 10.00 – 11.00 | Inaugural Session |
| 11.00 – 11.45 | Coffee Break |
| 11.45 – 13.00 | Topic I: Plenary Session – Road development Programme in India <i>Presentations and Discussion</i> |
| 13.00 – 14.30 | Lunch Break |
| 14.30 – 16.00 | Topic II: Determination of the carbon footprint of road works (Modeling, data available, methodologies, and comparison made between construction works, etc.) <i>Presentations and Discussion</i> |
| 16.00 – 16.30 | Coffee Break |
| 16.30 -18.00 | Topic III: Road design for reduction of the carbon footprint (Design of earthworks and pavement, life-cycle cost analysis, etc.) <i>Presentations and Discussion</i> |

| Day Two | |
|---------------|--|
| 09.00 – 10.30 | Topic IV: Innovative bituminous techniques to reduce energy consumption and reduce greenhouse gas emissions (Concepts of warm bituminous mixtures, new binders, innovations in emulsions and flux, innovations in hot-mix plants, adaptation of standard laying procedures, benefits and experience gained with these techniques, etc.) <i>Presentations and Discussion</i> |
| 10.30 – 11.00 | Coffee Break |
| 11.00 – 12.30 | Topic IV (continued) <i>Presentations and Discussion</i> |
| 12.30 – 14.00 | Lunch Break |
| 14.00 – 15.30 | Topic V: Use of local materials (Benefits from stabilization of local material in earthworks and pavement construction, innovations in hydraulic binders, experience gained in soil stabilization, etc.) <i>Presentations and Discussion</i> |
| 15.30 – 16.00 | Coffee Break |
| 16.00 – 17.30 | Topic V (continued) <i>Presentations and Discussion</i> |

| Day Three | |
|------------------|---|
| 09.00 – 11.00 | Topic VI: Recycling and preservation of fossil resources (In-place and in-plant recycling, experience with high RAP content, comparison with conventional methods of rehabilitation regarding the reduction of the carbon footprint, etc.) <i>Presentations and Discussion</i> |
| 11.00 – 11.30 | Coffee Break |
| 11.30 – 13.00 | Panel discussion and Valedictory Session |
| 13.00 | Lunch Break |

Call for Papers for contributions from India

In addition to the invited presentations from international experts from PIARC Technical Committees, contributions from India are called via the submission of papers.

Papers will be reviewed by a scientific committee set up by the Indian Roads Congress which will select the oral presentations at the international seminar.

Papers, submitted in English (about ten A 4 size pages in Arial font size 12 and spacing 1.5 lines), shall be sent to the Indian Roads Congress preferably in electronic form, at: dsa@irc.org.in

Hard copies shall be sent at: **Indian Roads Congress**
Kama Koti Marg, Sector 6, R. K. Puram, New Delhi 110 011
or by fax at **+91 11 2338 1649**.

The time table for receipt of papers is given below:

| | |
|--|---------------------------------|
| Submission of Paper | 30 th September 2010 |
| Review of Papers and notification to Authors | 15 th November 2010 |
| Submission of final papers | 15 th December 2010 |

Second Announcement and registration

The second announcement containing the registration form, registration fees, information regarding accommodation and all practical details, together with the program will be issued by 1st September 2010

The second announcement will be available from:
the PIARC website <http://www.piarc.org/fr/> and,
the Indian Roads Congress website <http://www.irc.org.in/>

Contact Details with local organizers

Any query regarding this seminar should be sent to
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