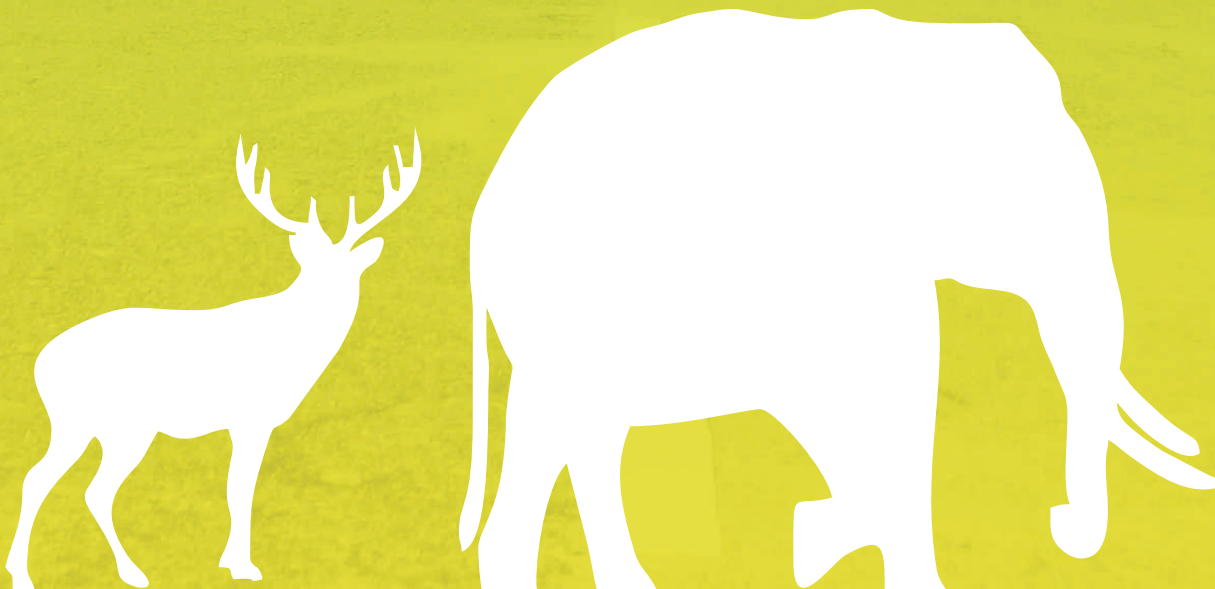


# MAINSTREAMING BIODIVERSITY IN ROAD AND RAIL TRANSPORTATION PROJECTS FOR PROMOTING SMART GREEN INFRASTRUCTURE

TRAINING PROGRAMME  
17 - 19 FEBRUARY, 2016





## Background

Developments in the road and rail sector can be undoubtedly singled out as the most pervasive linear intrusions that pose the biggest challenges of reconciling the pursuit of economic growth with the protection of ecological integrity of wildlife habitats. The challenges become even more daunting given that roads and rails cut across many of India's protected areas, fragment wildlife habitats and endanger many of the species that are already being negatively impacted by growing anthropogenic pressures. Central to the practice of transportation ecology is the belief that roads can be planned to avoid sensitive landscapes, designed to address connectivity of landscapes of conservation importance and encouraged as smart green infrastructure to connect people and wildlife.

This three-day course would provide an opportunity to become abreast with the recent developments in the field of road ecology and to upgrade technical skills for responsible planning of roads to balance growth and mobility of people with the security of habitat connectivity and permeability for wildlife species.

## Objectives

The key objectives of the training course are:

- Revisit current trends of road and rail development in India and countries in the region to review their socio-economic merits and implications for biodiversity conservation.
- Provide an overview of key ecological impacts of developments in road and rail sectors.
- Promote partnership for responsible planning of roads and rails in India and countries in South Asia.
- Encourage global and regional best practice guidance for steering developments in road and rail sectors more responsibly.



## Contents

This training offers an overview of progressive trends in the development of road and rail sector; provides general understanding of the ecological impacts associated with these sectors; delivers a 'how to' approach to evaluate, address and manage impacts and introduces the range of global best practices to address impacts on wildlife.

Specific learning sessions include:

- I. Importance and relevance of Road Ecology as an emerging discipline for harmonising ecological consideration in road development models around the world.
- II. Case studies to complement theoretical understanding and rationale for evaluating and mitigating impacts of roads and rail in sensitive habitats.
- III. Specific mitigation options for arresting road induced mortality of animals, barrier effects and other related impacts on a range of taxa and ecosystems.
- IV. The concept of nature engineering and its applications for mitigating key impacts of transportation infrastructure on wildlife.
- V. Merits of adopting SEA for planning sustainable developments in road sector and achieving 'big picture' of impacts at the landscape level.





## Methodology

The training course inputs will include lectures on technical concepts, case studies involving real examples, panel discussions, interactive exercises and group discussions that will allow participants to share their knowledge and learn from each other's experience.

## Course material

The following training resources would be essentially included in the course kit:

- i. Power point presentations of all lectures.
- ii. Compilation of ready to refer reading material for use during and after the course.
- iii. Roads, Sensitive Habitats and Wildlife: Best practice guidance for South Asia.
- iv. Best practice guidance for biodiversity-inclusive impact assessment: A manual for practitioners and reviewers in South Asia.
- v. Eco-friendly measures to mitigate impacts of linear infrastructure on wildlife: A practice manual.

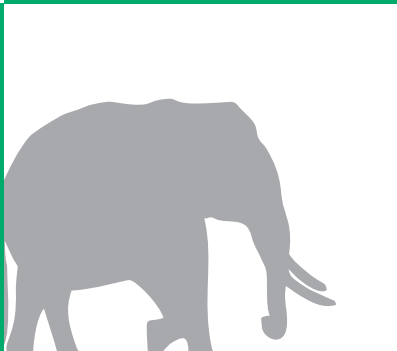


## Target participants

As road and rail planners, transportation engineers, decision makers, wildlife managers and impact assessment professionals together must work towards making road development compatible with the goals of community well-being and wildlife conservation, this course should interest all of the following stakeholders:

- Planners and engineers of road and rail sectors.
- Wildlife managers and representatives of conservation organisations.
- Environmental and planning experts.
- EIA consultants dealing with transportation sector.
- Academia/ research institutes.

The course is primarily targeted for participants from India but depending upon the interest can be also opened up for participants from other counties in the region that represent either tiger and elephant range lands or have trans-boundary roads.



## Special features of the course

The following features make this course special:

- i. This course would be conducted under the aegis's of National Tiger Conservation Authority (NTCA).
- ii. This is a distinctive training course, first in the series that would have the endorsement of the International Association for Impact Assessment (IAIA), the world's leading global network on best practices in the use of impact assessment for informed decision making.
- iii. This is a special course targeted towards improving impact assessment practice for mainstreaming biodiversity in the transportation planning.
- iv. This course would meet the requirements of National Accreditation Board for Education and Training (NABET) for EIA consultants in the functional area of Ecology and Biodiversity.

### Cost of the course:

₹ 25,000/- per participant

This fully residential course will cover all costs related to lodging, boarding and training material that would be provided during the course but not the expenses for to and fro travel to Dehradun.

### How to apply

All nomination must reach Wildlife Institute of India by 20 January, 2016.

Nominations should be confirmed to the Director, Wildlife Institute of India, Chandrabani, Dehradun-248001, Uttarakhand on the prescribed form either through post or email at [dwii@wii.gov.in](mailto:dwii@wii.gov.in)

### About Wildlife Institute of India (WII)

The Wildlife Institute of India (WII), an autonomous institution of the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, is an eminent centre for academics, training and research in the field of wildlife conservation. The Institute emerged as an internationally acclaimed institution that received the Rajiv Gandhi Award for Conservation in 2001 for its significant contribution to the science of conservation. More recently, WII has been recognized as the first UNESCO Centre on World Natural Heritage Training and Management for Asia Pacific Region. Apart from WII's role in building capacity of wildlife managers, its key role is also to help business organizations and impact assessment professionals understand and prepare for delivering responsible development to ensure security of wildlife species and their habitats.

### About National Tiger Conservation Authority (NTCA)

The National Tiger Conservation Authority (NTCA) is a statutory body of the Ministry of Environment, Forests and Climate Change, Govt. of India with an overarching supervisory / coordination role, performing functions as provided in the Wildlife (Protection) Act, 1972. Project Tiger' is a Centrally Sponsored Scheme of the Environment, Forests and Climate Change, providing funding support to tiger ranges States, for in-situ conservation of tigers in designated tiger reserves. Providing central assistance to States under the ongoing Centrally Sponsored Scheme of Project Tiger for tiger reserves, for activities (recurring / non-recurring), as reflected in the Annual Plan of Operations of tiger reserves, based on their Tiger Conservation Plans is an important activity of NTCA. The NTCA also conducts the country level assessment of the status of tiger, co-predators, prey and habitat once in four years, using the refined methodology, as approved by the Tiger Task Force.

### International Association for Impact Assessment (IAIA)

Established in 1980, IAIA is the largest global network on best practice in the use of impact assessment for informed decision making. Its members today number more than 2,500 and represent more than 120 countries. One of the unique features of IAIA is the mix of professionals to advance the state of the art and science of impact assessment and to plan and manage the consequences of development to enhance the quality of life for all.



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#### National Tiger Conservation Authority

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#### International Association for Impact Assessment

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For further information related to the course, kindly visit WII website ([www.wii.gov.in](http://www.wii.gov.in)) or contact any of the following:

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