# **Training Programme**

# on

Building capacity for conserving and managing natural capital during the planning and implementation of transportation projects in South Asia orkshop Report

# 15 - 19 July, 2019



#### Workshop partners and organizing task force

#### Workshop partners:

**ADB:** The Asian Development Bank was conceived in the early 1960s as a financial institution that would be Asian in character and foster economic growth and cooperation in one of the poorest regions in the world. ADB assists its members and partners by providing loans, technical assistance, grants, and equity investments to promote social and economic development. ADB is composed of 68 members, 49 of which are from the Asia and Pacific region.

WII: Established in Dehradun, India in 1982, Wildlife Institute of India (WII), an autonomous organisation of the Ministry of Environment, Forest and Climate Change, Government of India, is an internationally acclaimed Institution which offers training programmes, academic courses and advisory in wildlife research and management, with footprints beyond India in the larger South and Southeast Asian region as well. Its mission is to nurture the development of wildlife science and promote its application in conservation, in consonance with our cultural and socio-economic milieu. Its mandate is to build capacity through training, education and research in the field of wildlife conservation. WII's programmes are field based and seek an integration of biological, socio-economic and human aspects of large regional landscapes. The Institute is actively engaged in research, which is the primary sources of scientific information to help conservation, across the breadth of the country on biodiversity related issues.

IAIA: International Association for Impact Assessment (IAIA), established in 1980, provides an international forum for advancing innovation and communication of best practice in all forms of impact assessment to further the development of local, regional, and global capacity in impact assessment. IAIA members now number nearly 5000 and represent more than 120 countries. IAIA activities seek constantly to improve impact assessment procedures and practices around the world through training, professional quality assurance and creating opportunities for professional networking.

**Organizing task force:** The following people and organizations provided their professional support in organizing the workshop:

ADB:

Mr. Francesco Ricciardi, Environment Specialist Ms. Charina Cabrido, Consultant (Senior Technical Expert-Natural Capital)

WII:

Dr. V.B. Mathur, Director Dr. Asha Rajvanshi, Former Head, EIA Cell and Senior Professional Fellow Dr. Malvika Onial, Scientist D & Nodal Officer, EIA Cell Ms. Sharmistha Singh, Communication Manager, ADB-WII Project, EIA Cell Mr. N.S Bist, EIA Cell

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# 1. Introduction

South Asia is the world's fastest growing region with growth set to step up to 7.0 percent in 2019<sup>1</sup>. This economic development is driving massive rural-to-urban shift of populations with increased demands for infrastructure expansion. The pressure on natural capital has also mounted exponentially with an average of 30% of the national wealth in the region coming from natural capital. This dependence varies widely (e.g. 85% in Bhutan and 19% in the Philippines). In India, natural capital provides up to 53% of the wealth of the poor.<sup>2</sup>



Transportation infrastructure projects invariably involve considerable land diversion and long-term investments. These projects also have the potential to cause severe impacts to the environment and wildlife. To counter these adverse effects of development, it is imperative to strengthen and build adequate capacity to harmonise conservation and development goals for sustainable developments in transportation sector.

This training programme on Building Capacity for Conserving and Managing The Natural Capital During Planning and Implementation of Transportation Projects in South Asia organized from 15-19 July 2019 at the Wildlife Institute of India, presented an opportunity for dialogue among stakeholders on how to build capacity for conserving and managing natural capital during planning and implementation of transportation projects in South Asia.

# 2. Objectives of the training programme

The purpose of the training was to broaden and deepen understanding of issues related to biodiversity conservation and green infrastructure. The workshop brought together representatives from sectoral development agencies for roads and highways, railways as well as from development banks, from Bangladesh, Bhutan, Nepal, India and Sri Lanka. It sought to build capacity of individuals and organizations working in the implementation of Green Linear Infrastructure projects in the transportation sector in South Asia. The main objectives were to:

- Enhance capacity for promoting green infrastructure;
- Bring benefits of green infrastructure to human society based on the principles that protect and enhance nature and natural processes;
- Integrate principles of green growth, and concepts of smart planning into transport infrastructure development;
- Institutionalise biodiversity mainstreaming as an approach for meeting a range of multifunctional objectives:
- Promote sensitive planning and designing of development corridors for biodiversity conservation;
- Optimise the use of natural capital for sustainability of natural resources;
- Achieve greater acceptability of development goals and enhancing quality of life;



#### 3. Workshop scope

The training programme followed a well- conceived and logical sequence of the following thematic sessions: themes, namely:

- 1. Conservation and management of natural capital.
- 2. Promoting sustainable development and conservation in connected habitats;
- 3. Green infrastructure principles for combining conservation and smart development goals;
- 4. Developing context sensitive solutions for road and rail sectors: case studies;
- 5. Sensitive planning and smart green growth approaches for more pragmatic mitigation options;
- 6. Developing context sensitive solutions for road and rail sectors;
- 7. Going beyond reactive mitigation: planning tools and financing options;
- 8. Incentivizing conservation for managing residual impacts of development projects.



# 4. Main themes and related issues emerging from the workshop

A wide range of topics captured the essential elements of learning goals under each of the thematic areas highlighted above and are as follows:

- Natural Capital and Ecosystem Services
- Biodiversity Conservation and Sustainable Development
- Relevance of Mainstreaming Biodiversity
- Principles of Smart Green Infrastructure
- Transportation Ecology and its Relevance
- Planning Road Developments in High Value Conservation Forests
- Greening Transport Infrastructure in South Asia
- Impact of Linear Infrastructure on Animals and Context Specific Mitigation Measures
- Importance of Natural Capital and Ecosystem Services in the Planning and Implementation of Transportation Projects
- Conservation and Management of Natural Capital for Achieving Sustainable Development Goals
- Global Development Trends in Road and Rail Sectors and Challenges for Biodiversity Conservation
- Strategic Environment Assessment (SEA) as a Pro-active Approach to Avoid Reactive Mitigation
- Importance of Offsets

The day-wise training schedule for the course is attached as **Appendix-1**.

As part of the course kit, participants were provided with the learning resources in the form of soft copies of the presentations and the copies of the relevant and recent best practice guidance documents that included the Best Practice Guidance on "Eco-friendly measures to mitigate impacts of linear infrastructure on wildlife" and the "Manual on SEA". A list of these documents is given in Appendix-3 along with a detailed listing of all participants in Appendix – 4.

# 5. Technical Sessions

#### SESSIONS ON DAY – ONE

#### **Inaugural Session**

The inaugural session of the programme on 15th July 2019 was graced by Sh. Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai, as the Chief Guest. At the outset of the session, Dr. V.B. Mathur, Director, WII delivered the welcome address where he emphasised that capacity constraints in planning green transportation projects remain one of the biggest challenges for avoiding and mitigating potential impacts of road, rail and other transport infrastructure across South Asia. He said that the outcome of the programme would help guide responsible development in consonance with conservation of natural capital.



Dr. V.B. Mathur's address was followed by an introduction to the training course by Dr. Malvika Onial, Nodal Officer, EIA Cell and Scientist-D, WII. She presented the objectives of the course and walked the participants through the training schedule, teaching approaches and anticipated learning outcomes of the course. She highlighted the importance of the endorsement of this training programme by International Association for Impact Assessment (IAIA), which is the largest and leading global network on best practices in the use of impact assessment for informed decision-making.

The introduction of the participants was facilitated by Dr. Asha Rajvanshi, Senior Professional Fellow and Former Scientist 'G', WII, through an interesting 'icebreaker' session to encourage interpersonal communication amongst the participants. The workshop trainees and resource persons participated with great enthusiasm and got to know each other in an informal set-up.

Chief Guest, Sh. Praveen Pardeshi, IAS, Commissioner, BMC, delivered the keynote address. He appreciated ADB and WII's efforts of organizing the training programme specifically designed to help and sensitize all individuals involved in the planning and implementation of transportation projects in South Asia. He said that such courses would enable mainstreaming of conservation issues and biodiversity concerns into the decision making process of transportation projects. Sh. Pardesi also urged engineers to be more involved in road development projects and to involve ecologists in the process.

#### Session 1: Conservation and Management of Natural Capital



- The first presentation of this technical session was made by Mr. Francisco Ricciardi, Environment Specialist, Asian Development Bank. He spoke about the importance of Natural Capital and how to protect it while planning and implementing transportation projects. His presentation focused on the importance of understanding induced impacts, canopy connectivity and mitigation hierarchy in the planning of linear development projects. He highlighted case studies of wildlife-friendly transportation projects in Nepal and Bangladesh respectively and stressed on ADB's strategy of no net loss and net gain of biodiversity while dealing with such projects. He also shared ADB's strategy 2030 vision for a prosperous, inclusive, resilient and sustainable Asia and the Pacific. A development plan should include - strengthening policy and planning framework, promoting nature-based solutions and developing ecosensitive designs. And most importantly, a robust follow-up scheme - to monitor these solutions and measure results, to be seen as the main drivers in the successful implementation of mitigation measures. Mr. Francisco ended his presentation with a suggestion to bring engineers and ecologists together to mainstream eco-sensitive design features.
- The second lecture was delivered by Dr. Malvika Onial, Nodal Officer, EIA Cell and Scientist-D, WII on Conservation and Management of Natural Capital for achieving Sustainable Development Goals. Dr. Onial gave a detailed presentation on how Natural Capital supports the economy by providing essential resources and services. She expanded the idea of the many ecosystem services provided by nature in countries of South Asia and our dependence on these services. She explained how infrastructure development like transportation is one of the drivers of decline of natural capital. Dr. Onial talked about the Sustainable Development Goals (SDGs) with emphasis on SDG 9, Target 9.1 that reiterates the development of sustainable, resilient and inclusive infrastructures. She further stressed how transport policies, initiatives and projects can contribute towards achievement of many other SDGs like ending poverty and hunger, climate

impacts on transport and mitigation and adaptation measures. The way forward is to make transport planning, policy and investment decisions based on sustainable development dimensions – social development, environmental impacts and economic growth.



# Session 2: Promoting Sustainable Development and Conservation in Connected Habitats

The first lecture of this session was delivered by Dr. V.B. Mathur, Director, WII. He reviewed the global development trends in road and rail sectors and challenges for biodiversity conservation. He highlighted how infrastructure development and biodiversity conservation are becoming increasingly conflicting scenarios with this century witnessing unprecedented expansion of road network. Dr. Mathur pointed out that ninety percent of the road construction in the world is occurring in developing nations with mega biodiverse status. And this expanding road network is causing species and habitat loss and environmental degradation. Dr. Mathur highlighted the need to build capacity for development of ecologically sound; economically efficient and socially equitable infrastructure. He detailed the various ecological impacts of roads from increased mortality to habitat and population fragmentation among others. Hyper fragmentation was defined as the multidimensional view of ecological fragmentation and habitat loss when the consequences of roads in terrestrial and aquatic ecosystems are considered simultaneously. Challenges in rail transport were pointed out and approaches to develop site-specific and species-specific mitigation measures for rail impacts were presented. Dr. Mathur informed the participants that the way ahead was to build capacity for a range of stakeholders to harmonize conservation and development, retrofitting and investing in nature-based infrastructure development.

• Dr. Mathur's lecture was followed by a Short Film 'From Killer Roads to Humane Highways' by Dr. Shekhar Dattatri.

- The next presentation of this technical session was made by Dr. Asha Rajvanshi, Senior Professional Fellow, WII and former Head, EIA Cell, WII on the "The relevance of mainstreaming biodiversity in planning and implementation of development projects" wherein she gave an overview of the importance of integrating economic and ecological valuation approaches for development projects. This lecture also introduced the participants to the relevance of valuing ecosystem goods and services for mainstreaming human well- being in impact assessment. Further, attention was drawn towards why biodiversity should be mainstreamed in impact assessment and how this can help protect natural environment and make development more ecologically attractive, economically stronger, and socially diverse. She also discussed the merits of the offset approach and their relevance to encouraging green developments especially in the context of transportation projects.
- Dr. Malvika Onial presented the framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector. Here she walked through the entire EIA process from Screening to Review and Monitoring with the various steps involved in each process. She informed the participants about the many challenges that crop up during an EIA, from lack of adequate budgets, poorly defined ToRs and enforcement issues amongst others.



#### SESSIONS ON DAY – TWO

### Session 3: Green Infrastructure Principles for Combining Conservation and Smart Development Goals

• Dr. Asha Rajvanshi enlightened the audience about nature engineering principles and elements of smart green infrastructure with many examples from the natural world of incredible feats of engineering. The core idea being that nature has already solved many of the problems that we are grappling with. Animals, plants, and microbes are the consummate engineers. Collaborative partnerships between biologists and engineers can generate practical solutions to many technical problems related to use of developed areas by animals. Nature engineering initiatives can be used to successfully plan transportation projects through sensitive habitats to avoid impacts. Dr. Asha also showcased examples of very practical design features of roads and highways that provide passages for safe movement of species.



- Dr. Asha Rajvanshi's next presentation was on the 'Relevance of transportation ecology in promoting green transportation infrastructure'. She began with an overview of the Indian Railways and how different states and conservation areas are affected by railway lines passing through them. The two states of Assam and West Bengal account for the maximum number of Elephant deaths on train tracks across the country. She explained how rail transport is a booming market, driven by urban population growth. Many other examples from around the world were discussed where ambitious rail networks are being planned. Dr. Asha reiterated that railway projects would increasingly pose many different forms of impacts and more complex challenges in the future. The presentation then moved on to the issues of road infrastructure and the different planetary boundaries. It provided an insight about how road networks affect landscapes and the various connectivity conservation approaches. She explained that Transportation Ecology/road ecology is an emerging discipline of science that helps in examining the interaction between transport/ road networks and the natural environment. It is interesting to note that road ecology publications far outnumber rail ecology ones. She also referred to railway projects as relatively more environmentally friendly transport mode and making them smarter will help them become more eco-friendly.
- Dr. Vinod Mathur shared new insights about planning road development in high value conservation forests. The two major ecological impacts of roads are – habitat fragmentation and road induced injury and mortality.

He gave the example of Kandi Road in Corbett Tiger Reserve in India in the context of planning of road developments in high value conservation forests. The study demonstrated that the rigour of data abundance of tiger and elephants and also Rare Endangered and Threatened (RET) species provide strong support to the assessment of impacts and the planning of mitigation options. He gave an overview of the different methods adopted in the assessment of animal abundance, mapping of cross over points and scat collection to assess animal movement across roads in and around the reserve. Time-lapse camera traps helped in assessing animal encounter rates along with very high-res satellite imagery for landscape characterization. The lessons learnt from the study included a combination of ecological and finance metrics in the 'multi-criteria decision analyses' for providing better insights. He also reinforced that the 'roadless' option or '**avoidance**' are undoubtedly better approaches when planning linear developments in high conservation value forests.



Mr. Norris Dodd, ADB Consultant made a presentation on the 'Prospects and challenges of greening transport infrastructure in South Asia', noting that unlike other global environmental threats to biodiversity, linear infrastructure project impacts can be addressed with scientifically-proven and effective mitigation measures. He provided a case study from Bhutan to showcase how effective analysis can facilitate the balancing of infrastructure development with biodiversity conservation. The challenges to greening Asia's infrastructure include getting adequate funding, integrating climate change resiliency and effective integration of mitigation strategy elements. He addressed Asia's overarching challenge of balancing economic development with biodiversity conservation. Mr. Dodd expanded on mitigation hierarchy and how 'avoiding impacts' should be the first action step. Many times, it is also preferable to employ a mix of mitigation hierarchy action steps to meet the goal of 'No Net Loss' of biodiversity value and if possible to achieve a Net Gain. He discussed the various approaches of biodiversity baseline assessment; species and habitat inventories. He reflected on road impact assessment approaches

with examples from Bhutan and explained the various challenges faced in the integration of mitigation strategies in the projects. The presentation concluded that the prospect of greening transport infrastructure in South Asia has definitely improved in the past five years; however sound project analyses that consider all **alternatives** is a requirement in order to tip the balance towards biodiversity conservation.



### Session 4: Developing Context Sensitive Solutions for Road and Rail Sectors: Case Studies

Mr. Ajay Desai, Elephant Expert, gave a presentation on the 'Impacts of railways on elephants – experience from India' with examples from the Western Ghats - a globally important conservation area with the largest populations of tigers and Asian elephants. He highlighted that railway accidents involving elephants have been on the rise in the area and discussed the various factors such as – the increase in number of railway lines crisscrossing the wildlife habitat to fragmentation and degradation contributing to these accidents. All these impacts are cumulative in nature and these issues can be addressed by first understanding animal behaviour. He pointed out that such accidents can be avoided by routing rail lines outside forests, facilitating their crossing over with the help of underpasses and overpasses and establishing early warning and alerting systems. Embankments need to be blocked to deter crossing or at least leveled to facilitate easy escape. Removal of blind curves and funneling using proper barriers in railway tracks are other solutions that were brought up during the presentation. Mr. Desai reiterated that mitigation measures have to be functional at landscape level and adhere to the animals' needs to have any chance of success.



 Mr. Norris Dodd gave the last lecture of the day with a detailed case study from Chittagong-Cox's Bazar Railway Project to understand the impacts of railways on Elephants in Bangladesh. The presentation focused on the various threats to their population and their status in Bangladesh. He gave an overview of Mitigation Hierarchy, and then related its application through a case study where based on the assessment impacts of railwayproject on elephants, context-sensitive mitigation strategies were applied.

#### SESSIONS ON DAY - THREE

### Session 5: Sensitive Planning and Smart Green Growth Approaches for More Pragmatic Mitigation Options

Dr. Asha Rajvanshi shared a good practice guidance for infrastructure development and design with experiences from India. She first gave an overview of the overlap of linear infrastructure and protected areas in India. She reflected on how greening of linear infrastructure is possible by creating a crossroad for ecology and economy through development of wildlife-transportation corridors and how this can help reduce rates of animal mortality and maintain habitat connectivity. She then presented a case study of National Highway 7 (NH-7) which was the first study in the country that provided relevant insights for combining ecology and structural designs for planning animal friendly transport infrastructures. Dr. Rajvanshi highlighted the case of gibbon habitats impaired by a railway line in Hoolongappar Gibbon Sanctuary where a costly metal bridge was constructed over the railway line to restore the canopy connectivity for the gibbons. The structure, however, could not be used by the gibbons because it lacked the design considerations for an arboreal species; which could have been improved by seeking the inputs of ecologists at the earliest design stage.



Dr. Vinod Mathur gave a presentation on 'Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife: from best practice prescriptions to implementation.' He discussed the approach of mainstreaming conservation in the planning stage of the projects. The presentation was a walkthrough to the best practice guidance document published by WII - "Eco-friendly measures to mitigate the impacts of linear infrastructure on wildlife." Dr. Mathur provided the contextual background to the guidance document and introduced its structure and content. He emphasised on the relevance of this guidance document in addressing impacts of road, rail and power line projects and explained how the different chapters of the book offer guidance to address range of impacts of different linear developments on different animal groups. Various mitigation measures and engineering options were highlighted for enhancing permeability of crossing structures. Dr. Mathur showcased an underpass on NH-7 as an example of the guidance in practice. Carnivore signs were monitored during and post construction phases of the structure. Many sightings were recorded and various design features were added to enhance use of the underpass by wild animals. He highlighted the need for R&D efforts in mitigating negative impacts of linear developments in the road and rail sector. The feasibility-trial of a seismic detection system to reduce elephant mortality around railway lines was also presented.



http://www.wii.gov.in/images//images/documents/eia/EIA\_BPG\_Report\_2017.pdf Low Resolution: http://www.wii.gov.in/images//images/documents/eia/EIA\_BPG\_Report\_2017\_low.pdf  Mr. Norris Dodd shared his experience about the challenges in the implementation of wildlife mitigation measures. He stressed on the importance of coordination with national agencies during transport projects as they are partners and stakeholders in the project and should be treated as such. They are sources of information and expertise and the formation of mitigation strategies. One should create common understanding of regulatory framework and should use the road/rail agencies as project proponents. He highlighted the importance of effective communication and conflict resolution for pursuit of project goals.



#### Field Visit to Rajaji Tiger Reserve, Haridwar



In order to expose the participants to the real issues of animal-linear infrastructure conflict in and around protected areas, a field trip to Rajaji Tiger Reserve (RTR) was organised on Day-three of the training course. Dr. Anil Kumar Singh, Team Leader, TAL-WWF and Dr. Bivash Pandav, Scientist F, WII provided the resource inputs in this trip. The following places were visited:

#### Visit to the railway track between Raiwala and Kansaro railway station

- This is a 22 km track that passes through the tiger reserve and instances of several animal kills have been reported on this track since 1987. Dr. Anil Singh informed the participants that 23 elephants, 4 leopards, several barking deer, chital, sambhar and many amphibians and reptiles had been killed on this track. The biggest episode of elephant mortality occurred in 2001 when 18 elephants were killed. Factors responsible for animal mortality on this track were discussed with the participants. Following among them were significant:
- Poor visibility at the curves constraining the visibility of the loco-pilots in detecting animal presence and their judgement to apply sudden brakes.
- Steep embankments (cutting) in the hilly terrain of the track that restrict climb and descend, leading to trapping of animals and consequent killings by the moving trains.
- Perennial sources of water, especially during summer attracts large congregation of elephants including mix of calves and female elephants to cross the tracks that portend the risk of deaths after collision with moving trains.
- Participants were apprised of the following measures jointly taken by Forest Department, Indian Railways and the WWF:
- Levelling of three elevated embankments.

- Installation of signage in the areas identified as elephant movement areas.
- Training of loco-pilots at crew lobbies and running rooms to sensitize them about the wildlife movement and the mitigation measures.
- Joint patrolling of Railways and Forest Department staff to improve communication to loco-pilot regarding animal movement.
- Improvisation of existing water holes and creation of new water holes away from the tracks to tackle the issue of water scarcity.
- Discouraging disposal of garbage on the tracks through messages on huge hoardings at Haridwar and Dehradun railway stations, announcements at these stations to sensitize catering staff as well as passengers to refrain from throwing garbage on the tracks or in the park.
- Construction of new underpasses for safe passage of elephants.
- Regular de-silting of existing underpasses to improve their permeability for animal movement.

# Visit to Animal Underpass/Flyover/Mitigation structures under construction for connecting habitats of large mammals



 Chilla-Motichur corridor forms a vital link for movement of elephant and tiger between eastern and western parts of Rajaji Tiger Reserve. However, the habitat connectivity between Chilla and Motichur ranges is severly impaired, ever since the landscape in the area has been subjected to enormous changes over the last 50 years. The factors that have significantly contributed to the declining connectivity include – villages and settlements; railway track; a busy highway; army establishment and a power channel. Based on sound scientific evidence regarding elephant movement in the area, construction of three flyovers was proposed. • The participants visited two of these flyovers including the Kansrao-Barkot Flyover to review its design features and openness ratio for their suitability for animal crossing. This helped the participants relate their class room learning to an on-site structure and exposed them to principles of nature engineering for planning animal friendly passages.

#### SESSIONS ON DAY – FOUR



#### Session 6: Developing Context Sensitive Solutions for Road and Rail Sectors

- Mr. Norris Dodd made a presentation on the development of context sensitive solutions for road and rail sectors with lessons learnt from road projects in North America and other countries. His presentation demonstrated how linear transport infrastructure project impacts can be addressed with scientifically-proven and effective mitigation measures. Mr. Norris presented various case-studies with lessons learned about the effectiveness of the green infrastructure with respect to role of traffic, passage design, wildlife preference for using the structure and new construction versus retrofitting. He concluded that green infrastructures have conclusively shown to reduce wildlife-vehicle collisions, improve highway permeability, promote landscape connectivity and reduce genetic isolation. There are many cost-effective designs available especially for retrofitting of existing highways. What came through from the various examples and case studies was that monitoring is critical for successful application of these projects.
- Dr. Suresh Kumar, Scientist E, WII talked about the development of context sensitive solutions for power line projects. He began with an overview of energy transmission in India and how electric poles often crisscross undeveloped landscapes occupied by various avian species. He discussed the risks of electrocution of a large number of elephants and birds from the overhanging transmission lines every year in India. Electrocution of birds, and their collision with power lines, is not only a

topic of conservation concern but also an issue of serious economic and financial costs. Careful routing and structure of power lines is critical to minimise the impacts of power lines on birds. Once the preferred route has been chosen for a transmission power line, field surveys should provide upto-date information on bird distribution and activity, to assess the risk to birds and to inform any required mitigation. Early planning and rigorous EIA are two core requirements for reducing mortality as well minimising the risks of costly power outages.



# Session 7: Going Beyond Reactive Mitigation: Planning Tools and Financing Options

 Dr. Asha Rajvanshi introduced the participants to Strategic Environmental Assessment (SEA) as a pro-active approach to avoid reactive mitigation. She explained that SEA is a structured, rigorous, participative, open and transparent EIA based process, applied particularly to plans, policies and programmes. It is a strategic planning tool for assessing impacts at different hierarchical levels. She then pointed out the various differences between SEA and EIA and how SEA can help improve integration of economic, environmental and social considerations while planning multiple projects in the landscape. Dr. Rajvanshi elaborated the merits of SEA through examples from India's mining sector NH-7 along Pench Tiger Reserve and in case of the regional planning in Munnar high range mountain landscape.

#### **Group Work and Presentation**

- Dr. Asha Rajvanshi also planned a hands-on-exercise to introduce the participants to review a plan using the SEA approach.
- The group work session saw active involvement of the participants. They were divided into four groups to review the state plans of a fictitious state called Sunderland. Each group was assigned to review the development plan of the smaller units of the state to advice on the proposal of an

integrated state land use plan. The spokesperson of each group came and presented their SEA plans for Sunderland describing the various steps of screening for the state development plans ranging from a state organic agricultural plan to eco-tourism, irrigation and hydropower and a special industrial zone scheme.



#### SESSIONS ON DAY - FIVE

# Session 8: Incentivizing Conservation for Managing Residual Impacts of Development Projects



- The first lecture of the day was by Dr. Asha Rajvanshi on 'Offsets for compensating residual impacts'. She shared with the participants, the concept of biodiversity offsets, their importance and activities that would qualify as offset schemes for different stakeholders including the government sector, developers, environmental groups etc. Ground rules for developing offsets were explained along with the guiding principles and the different criteria for defining offsets. For conservation offsets to be effective, they should be consistent with national and local conservation and development priorities. She reiterated that offsets must have local context and must be sensitive to indigenous people's rights. She emphasized that biodiversity offsets should be designed and implemented in a landscape context.
- Dr. V.B Mathur subsequently further substantiated the concept of offsets through examples of biodiversity offsets from around the world. The participants learned the practical aspects of offsetting with the help of relevant case studies from Africa, USA and Australia. The different aspects of offsetting in the marine world were also highlighted. He informed the participants that despite significant advances in both theory and applications of biodiversity offsets there are several uncertainties that exist in the minds and actions of both the industry and conservation practitioners. There is a need for a reliable space to share experience like an online source of offset case studies, both successful and failed ones.

#### **Role Play Exercise and Presentation**

 Dr. Vinod Mathur and Dr. Asha Rajvanshi introduced the participants to a group exercise focused on dynamics of decisions based on evaluation of offset scheme for linear developments in a forested landscape between two cities of a mega-biodiverse country. Several stakeholders (Dreamland Developers, Nature's Defenders, VizTech Solutions, Biggain Group) identified, prioritized and built up their case for an offset scheme. This was then evaluated for its utility of the offsets by an Advisory Group of the Crown Princess of Kingdom of Prosperity. The participants were divided into four groups for this exercise for planning and reviewing of an offsetting scheme.



• The resource persons held court as council members where each group presented their work to the council and were evaluated for their arguments. The participants and resource persons participated with great enthusiasm and various viewpoints on offsetting were discussed in a proactive manner.



#### 6. The salient outcomes of the workshop and milestones achieved:

- The training clearly establishes relevance in the context of stakeholders who attended the workshop from India and from different South Asian countries. All the participants unanimously agreed that the benefits of the training programme should also extend to other countries in South-east Asia where major transportation projects are being implemented and are also being visualized in the future.
- The participants expressed their happiness about the course being endorsed by a global impact assessment agency like the IAIA.
- The structure and contents of the course provided an appropriate mix for achieving the learning objective avoid and minimize impacts of linear projects on biodiversity rich areas through green approaches involving planning and designing of eco-friendly infrastructure designs.

- Several knowledge products were put to test for their validity as effective means to build capacity and these were found to be powerful sources for strengthening capabilities.
- Participants felt that offsets are a good way to go ahead as an approach for compensating residual impacts.
- Interest was expressed by the participants in pursuing offset schemes in their respective countries.
- All the participants felt a strong need to remain networked for exchanging lessons learned on projects implemented by them.

# 7. Feedback on Training Programme

A moodometer was one of the methods adopted to evaluate the participants' feedback. It was used at the end of each day and gave a very visual impression of how the participants were feeling about different aspects of the training. It was reviewed daily to gauge the satisfaction level of the participants in various criteria and this feedback was then used to modify features of the training as it progressed.

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Additionally, at the end of the workshop, a comprehensive semi-structured "Feedback Form" was used to obtain feedback on the content, methodology and arrangements of the overall workshop. This allowed participants to provide feedback on individual speakers and sessions covered throughout the training.

Overall, the participants found the workshop well-structured, comprehensive and rich in content. The workshop provided an excellent opportunity for the participants to learn about the importance of biodiversity conservation, green infrastructure, EIA, SEA and context sensitive mitigation measures to minimize ecological impacts. They valued learning about the need for protecting natural capital and how to minimize impacts on the biodiversity rich areas while planning linear projects and the steps to be taken during implementation. The participants also learned the importance of wildlife crossings and connectivity in transport projects and how to address these while planning on landscape level. They

appreciated the use of several case studies from different parts of the world as this helped them understand the training concepts at the ground level. Individual lectures were also highly rated.

Participants recommended including additional field visits to get more practical experience. The arrangements of the workshop and the hospitality and commitment of the management team was highly appreciated by all participants. The main concerns in terms of arrangements were the lack of diversity in food, tightly packed agenda and not enough practical, field exercises. Most participants mentioned that such training workshops should be organized frequently.



#### The key responses gathered from the participants are as under -

#### Major strengths of the learning programme:

- Context sensitive mitigation measures to minimize ecological impacts using examples carried out at ground level
- Plenty of case studies
- Knowledge on the importance of wildlife crossings in transport projects
- Lectures and course content

### Weaknesses of the learning programme (if any):

• More field level learning should be incorporated

#### Suggestions on additional topics:

- Sample Animal Passage Plan
- Economically viable solutions that can be adopted
- Impact on tribal groups (indigenous people) and their relocation if it is unavoidable
- Effect on humans because of endangering wildlife
- Coverage of solutions for road induced impacts for smaller animals

#### New Knowledge gained:

- Importance of identifying impacts at feasibility/DPR stage
- Consideration of Openness ratio for designing wildlife crossing structures

- Offsetting as a powerful concept for addressing residual impacts
- Application of Nature Engineering principles
- Examples of Biodiversity offsets from around the world
- Relevance of connectivity of corridors

More detailed feedback based on the responses obtained on the feedback questionnaire is presented in **Appendix-2**.



#### **Feedback Analysis**

Based on the comments made by participants and the results extracted from the feedback questionnaire, the evaluation was conducted on a 1 to 5 scale, 1 standing for the minimum satisfaction and 5 for the maximum.

The average percentage rating of **overall satisfaction** given by the participants is **94%**, based on three criteria: (i) contents of the training programme; (ii) learning evaluation and (iii) overall programme quality.



### Rating on the overall content of the training program



The criterion of overall satisfaction has been evaluated on a 1 to 10 scale, with ratings 1-3 standing for 'very dissatisfied', 4-6 for 'moderately satisfied', 7-8 for 'highly satisfied' and 9-10 for 'very highly satisfied'. The complete and detailed results are presented in **Appendix-2**.

100% of the participants responded with the rank of 8 to 10 indicating that participants are very highly satisfied with the workshop.



#### Rating for the overall satisfaction of the participants

The average percentage rating of all speakers based on the feedback on individual resource persons and their sessions is **95%** 

S.No.	Торіс	Resource Person	Rating				%
			Excellen t	Very Good	Good	Avg.	Rating
1.	Introduction to the course	Dr. Malvika Onial	13	4	1		96
2.	Keynote address	Shri Praveen Pardeshi	9	10			95
	TECHNICAL SESSION – I CONSERVA	FION AND MANAGEM	ENT OF N	ATURAL	CAPIT	<b>A</b> L	<u></u>
3.	Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects	Mr. Francisco Ricciardi	2	14	3		88
4.	Conservation and Management of Natural Capital for achieving Sustainable Development Goals	Dr. Malvika Onial	7	11	1		93
TE	CHNICAL SESSION – II PROMOTING SUSTAINAB H.	LE DEVELOPMENT AN ABITATS	ND CONSI	ERVATIO	ON IN CO	ONNEC	TED
5.	Review of global development trends in road and rail sectors and challenges for biodiversity conservation	Dr. Vinod Mathur	18	2			99
6.	The relevance of mainstreaming biodiversity in planning and implementation of development projects	Dr. Asha Rajvanshi	14	6			97
7.	Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	Dr. Malvika Onial	9	7	2		93
TECH	TECHNICAL SESSION – III GREEN INFRASTRUCTURE PRINCIPLES FOR COMBINING CONSERVATION AND SMART DEVELOPMENT GOALS						
8.	Nature engineering principles and elements of smart green infrastructure	Dr. Asha Rajvanshi	13	7			96
9.	Relevance of transportation ecology in promoting green transportation infrastructure	Dr. Asha Rajvanshi	14	6			97
10.	Planning road development in high value conservation forests: New insights	Dr. Vinod Mathur	17	3			98
11.	Prospects and challenges of greening transport infrastructure in South Asia: An overview	Mr. Norris Dodd	11	7	2		94
TECHNICAL SESSION – IV DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD AND RAIL SECTORS: CASE STUDIES							
12.	Impacts of Railways on Elephants –Experience from India	Mr. Ajay A. Desai	10	9	1		94
13.	Impacts of Railways on Elephants: Experience from Bangladesh	Mr. Norris Dodd	10	9	1		94
]	FECHNICAL SESSION – V SENSITIVE PLANNING A PRAGMATIC M	AND SMART GREEN G IITIGATION OPTIONS	ROWTH A	PPROA	CHES FO	OR MO	RE
14.	Good practice guidance for infrastructure development and design: Experiences from India	Dr. Asha Rajvanshi	11	8	1		95
15.	Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation	Dr. Vinod Mathur	18	2			99
16.	Implementation of wildlife mitigation measures: Governance challenges	Dr. Norris Dodd	7	12	1		93
	FIELD TRIP						

S.No.	Торіс	<b>Resource Person</b>	Rating				%
			Excellen t	Very Good	Good	Avg.	Rating
17.	field trip to review the conservation challenges	Dr. Bivash Pandav	7	9	3		91
	associated with the linear infrastructure projects (Rail and Road)	Dr. Anil Kr. Singh	3	13	3		89
	TECHNICAL SESSION – VI DEVELOPING CONTR	XT SENSITIVE SOLUT	IONS FOR	ROAD A	AND RAI	IL SEC	TORS
18.	Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	Mr. Norris Dodd	15	3	2		96
19.	Developing context sensitive solutions for other linear infrastructure projects	Dr. Suresh Kumar	11	9			95
	TECHNICAL SESSION – VII GOING BEYOND REACTIVE MITIGATION: PLANNING TOOLS AND FINANCING OPTIONS						
20.	Strategic Environmental Assessment (SEA): A pro- active approach to avoid reactive mitigation	Dr. Asha Rajvanshi	12	4	2		95
21.	Introduction to a SEA Plan: Hands-on Exercise	Dr. Asha Rajvanshi	12	7	1		95
22.	Review Group exercise	Dr. Asha Rajvanshi	12	7			96
	TECHNICAL SESSION– VIII INCENTIVIZING CONSERVATION FOR MANAGING RESIDUAL IMPACTS OF DEVELOPMENT PROJECTS						
23.	Offsets for compensating residual impacts: Concept to practice	Dr. Asha Rajvanshi	9	10	1		94
24.	Case examples of offsets	Dr. Vinod Mathur	17	3			98
25.	Introduction to Group exercise for evaluating an offset	Dr. Vinod Mathur	13	7			96
	scheme for linear developments in a forested landscape	Dr. Asha Rajvanshi	9	9			95

Mean Resource Persons Feedback (Number = 27 Average Percentage Rating of all Speakers = 95%

# **Concluding Session**



The workshop concluded with a short valedictory function during which Dr. V.B. Mathur, Director, WII acknowledged the support of resource persons and the project counterparts. He also awarded the certificates of completion to all the participants.



# **APPENDICES:** Contents

Appendix 1	Workshop agenda
Appendix 2	Summary of feedback from participants
Appendix 3	Useful references and sources of information covered during the workshop
Appendix 4	List of registered attendees at the workshop

# APPENDIX 1: Workshop agenda

Day One: (Monday) – 15 <sup>th</sup> July 2019				
INAUGURAL SESSION				
09:30-09:40	Welcome remarks – Dr. Vinod Mathur, Director, Wildlife Institute of India (WII)			
09:40-09:55	Introduction to the course – Dr. Malvika Onial, Scientist 'D', WII			
09:55-10:15	Introduction of the participants – Dr. Asha Rajvanshi, Senior Professional Fellow and Former Scientist 'G', WII			
10:15- 11:00	<b>Keynote address—</b> Shri Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai			
11:00 - 11:30	GROUP PHOTO SESSION AND TEA BREAK			
TECHNICAL SESSION – I CONSERVATION AND MANAGEMENT OF NATURAL CAPITAL				
11:30 – 12:15	Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects – Mr. Francisco Ricciardi, Environment Specialist, Asian Development Bank			
12:15 – 13:00	Conservation and Management of Natural Capital for achieving Sustainable Development Goals-Dr. Malvika Onial			
13:00 - 14:00	LUNCH			
TECHNICAL SESSION – II PROMOTING SUSTAINABLE DEVELOPMENT AND CONSERVATION IN CONNECTED HABITATS				
14:00 - 14:30	Review of global development trends in road and rail sectors and challenges for biodiversity conservation – <i>Dr. Vinod Mathur</i>			
14:30 - 15:30	Short Film – From Killer Roads to Humane Highways – <i>Dr.Shekhar Dattatri</i>			
15:00 - 15:30	ΤΕΑ			
15:30 – 16:15	The relevance of mainstreaming biodiversity in planning and implementation of development projects – <i>Dr. Asha Rajvanshi</i>			
16:15 – 17:00	Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector – <i>Dr. Malvika Onial</i>			
17:00	End of Day 1			
20:00	COURSE DINNER HOSTED BY DIRECTOR, WII AT REGENTA HOTEL			
	Day Two (Tuesday) – 16 <sup>th</sup> July 2019			
TECHNICAL SESSION – III GREEN INFRASTRUCTURE PRINCIPLES FOR COMBINING CONSERVATION AND SMART DEVELOPMENT GOALS				
09:15 - 09:30	Recap of Day 1			
09:30 - 10:15	Nature engineering principles and elements of smart green infrastructure – Dr. Asha Rajvanshi			

10:15 – 11:00	Relevance of transportation ecology in promoting green transportation infrastructure – <i>Dr. Asha Rajvanshi</i>
11:00-11:30	Coffee Break
11:30 - 12:15	Planning road development in high value conservation forests: New insights – <i>Dr.</i> <i>Vinod Mathur</i>
12:15 – 13:00	Prospects and challenges of greening transport infrastructure in South Asia: An overview – <i>Mr. Norris Dodd, ADB Consultant</i>
13:00 - 14:00	Coffee
TECHNICAL SE AND RAIL SEC	SSION – IV DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD TORS: CASE STUDIES
14:00 - 15:00	Impacts of Railways on Elephants –Experience from India – <i>Mr. Ajay A. Desai,</i> <i>Consultant</i>
15:00 - 15:30	ΤΕΑ
15:30 - 16:30	Impacts of Railways on Elephants: Experience from Bangladesh – Mr. Norris Dodd
	Day Three (Wednesday) – 17 <sup>th</sup> July 2019
TECHNICAL SE MORE PRAGN	SSION – V SENSITIVE PLANNING AND SMART GREEN GROWTH APPROACHES FOR IATIC MITIGATION OPTIONS
09:30 - 10:15	Good practice guidance for infrastructure development and design: Experiences from India – <i>Dr. Asha Rajvanshi</i>
10:15 - 11:00	Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation – <i>Dr. Vinod Mathur</i>
11:00 - 11:30	TEA
11:30 – 12:30	Implementation of wildlife mitigation measures: Governance challenges – <i>Dr.</i> Norris Dodd
12:30 - 13:30	LUNCH
13:30	Leave for field trip to review the conservation challenges associated with the linear infrastructure projects (Rail and Road) – <i>Dr. Bivash Pandav, Scientist - F,</i> WII; Dr. Anil Kr. Singh, Team Leader-Terai Arc Landscape, WWF-India &Dr. Asha Rajvanshi
20:00	DINNER
	Day Four (Thursday) – 18th July 2019
TECHNICAL SES	SSION – VI DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD AND RAIL
09:30 - 10:15	Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries – <i>Mr. Norris Dodd</i>
10:15 - 11:00	Developing context sensitive solutions for other linear infrastructure projects – Dr. Suresh Kumar
11:00 - 11:30	TEA

TECHNICAL SESSION – VII GOING BEYOND REACTIVE MITIGATION: PLANNING TOOLS AND FINANCING OPTIONS			
11:30 - 12:15	Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation – <i>Dr. Asha Rajvanshi</i>		
12:15 – 13.00	Introduction to a SEA Plan: Hands-on Exercise – Dr. Asha Rajvanshi		
13:30 - 14:00	LUNCH		
14:00 - 15:00	Group Work		
15:00 - 15:30	ТЕА		
15:30 - 17:00	Review Group exercise – Dr. Asha Rajvanshi		
20:00	DINNER		
	Day Five (Friday) – 19th July 2019		
TECHNICAL SE	SSION– VIII INCENTIVIZING CONSERVATION FOR MANAGING RESIDUAL IMPACTS IENT PROJECTS		
09:30 - 10:15	Offsets for compensating residual impacts: Concept to practice – <i>Dr. Asha</i> <i>Rajvanshi</i>		
10:15 – 11:00	Case examples of offsets – Dr. Vinod Mathur		
11:00 - 11:30	TEA		
11:30 - 12:00	Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape – <i>Dr. Vinod Mathur &amp; Dr. Asha Rajvanshi</i>		
12:00 - 13.00	Group work and presentation		
13:30 - 14:00	LUNCH		
14:00 - 14:30	Course Feedback		
14:30 - 15:00	Concluding session		
15:00	ТЕА		
# **APPENDIX 2:** Feedback summary of the evaluation questionnaires filled in by the participants

#### Overall satisfaction with the training

(V	ery dissa	tisfied)						(Ver	y highly s	atisfied)
0	1	2	3	4	5	6	7	8	9	10
								4	4	12

In terms of relative % = 94%

#### Satisfaction Evaluation

Program Content	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied
Content of the learning Program	13	7			
Relevance of the content to your work	10	9	1		
Duration of the learning program	8	9	3		

Learning Evaluation	Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program give you the knowledge, skills and attitudes you need?	7	10	3		

Overall Program Quality	Completely	Almost Completely	Partially	Almost Not at All	Not at All
Overall assessment on the quality of the learning program	13	7			

#### Q.1. What did you think were the biggest strengths of the learning programme?

- The program is very useful to implement the linear infrastructure projects by minimizing loss to biodiversity
- Study material related to the program was provided
- Teaching context sensitive mitigation measures to minimize ecological impacts using examples carried out at ground level
- Plenty of case studies
- Very good and experienced resource persons
- Bridging knowledge gap by helping us understand issues and approaches to analyse for planning and design

- Increasing awareness of participants towards wildlife conservation
- Knowledge on the importance of wildlife crossings in transport projects
- The content of the presentation material
- Clockwork precision in planning the event
- In-depth knowledge of the trainers
- Group exercises
- Good coordination, communication and support from organizers
- Management is very good
- Lectures and course content
- Campus environment
- Director (WII) and Dr. Asha Rajvanshi
- The researchers of the institute

# Q.2 What did you think were the biggest weaknesses of the learning programme?

- Suggestion for interactive session inside Rajaji National Park during field visit
- Very tight schedule of lectures
- More field level learning should be incorporated
- Duration of course was short
- Food facilities
- Time for case study i.e. Rajaji National Park was not adequate
- Long lectures

# **Q.3** What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning?

- Procedure for clearance of proposal stage wise, and the timeline
- The programme mostly covered behaviour of large animals but road kills are equally applicable for small animals. Therefore equal attention to be paid for measures to relieve small animals
- Biodiversity with reference to South Asian countries
- A presentation on 'Sample Animal Passage Plan'
- Impacts of light and noise generated from infrastructure projects on wildlife behaviour
- More field visit and hands-on experience
- Economically viable solutions that can be adopted

- Bureaucratic hurdles in implementing good practice should also be discussed
- Field visits to view success stories
- Impact on tribal groups (indigenous people) and their relocation if it is unavoidable
- Discussion on scenarios from outside India like Africa, South America etc.
- Co-relating framework with current system
- More practical (brainstorming) sessions
- Effect on humans because of endangering wildlife
- The relation and difference between EIA and SEA
- More focus on wildlife crossing-connectivity

# Q. 4 What new knowledge, skills and attitudes have you gained from the learning programme?

#### -New Knowledge

- How to minimize impacts on biodiversity rich areas during implementation of linear projects
- To identify impacts at feasibility/DPR stage
- Equipped with information on the vulnerability of wildlife and measures to reduce impact on it
- Openness ratio for wildlife crossing structures
- Road/Rail ecology, Biodiversity mainstreaming, SEA and Offsets
- Integrating biodiversity concerns into an EIA
- Applicability of various passage techniques
- That species characteristics is a significant criteria that helps in designing passages
- Offsetting is a powerful concept and should be taken forward
- Proper assessment of the environment before planning any development activity
- Eco-friendly infrastructure design
- The use of underpasses/overpasses/fencing to avoid the loss of wildlife
- Got an opportunity to enhance knowledge on wildlife conservation
- Conservation is not for others, it is for us humans
- Criteria for monitoring and evaluation
- Connectivity of corridors
- Nature engineering

- Different problems faced while planning and implementing power transmission line projects
- Examples of offset developments from around the world

### -New Skills

- New methods of studying animal behavior such as camera trapping etc
- Project formulation and management
- Managing or mitigating and offsetting impacts on wildlife
- Coordination amongst the stakeholders is a must
- Innovative ideas like project formulation to protect wildlife
- EIA preparation
- How to develop an offset

### -New Attitudes

- To be more sensitive towards road ecology
- Sensitivity to biodiversity concerns especially with respect to avian issues
- Being more comprehensive and proactive
- Conserving and managing nature is everyone's responsibility
- To show more empathy towards wildlife
- Development with conservation
- Shall be thinking in more dimensions while implementing projects

# **Q.5** How will you use the knowledge, skills and attitudes that you have gained from the learning programme when you return to your workplace? (List at most 3 action items that you intend to pursue this year)

- Mitigation steps can be taken at the earliest stage of the project
- Consultant for preparing Detailed Feasibility Report can study species movements by using camera traps etc
- Being sensitive if any stretch of the project is passing through any protected area
- Environmental assessments which I will be involved in will be improved with the knowledge gained
- Highways which are under operation can be upgraded with feasible measures
- In monitoring of environmental safeguards compliance
- Dohazari-Cox's Bazar Rail line project

- Sensitize colleagues at workplace
- Share the resource material provided
- Implement the learning in projects
- EIA of infrastructure projects
- Pursue PP for cumulative assessment
- Would like to take up the matter of SEA with some top officials of the country so that an autonomous organization can be established
- Co-relate to practical use
- Avoidance measures for Elephant-Rail accidents (short-long term)
- Ensure every IEE/EIA team has a biologist/ecologist or relevant person
- Advocate for conservation in each road project
- Shall be more responsible and participate actively while working on or obtaining EIA clearances

#### General comments:

- This type of training course should be organized frequently.
- A big thank you to WII and ADB for making the event possible.
- Want another training more on species specific behaviour and mitigation measures.
- It was a nice experience. This should also be carried out at top management level/planning level officials of the government to successfully implement these initiatives.
- I am very much satisfied from the course.
- Dr. Mathur's lectures are interesting to hear and very clear for those who come from other subjects too.
- The researchers of the institute were the biggest strengths for the learning program.
- Overall the training program was good for developing knowledge.
- Programme was excellent. Thanks to all who were a part of the programme.
- Acknowledgement to the WII & ADB team.
- The whole program was illuminating to me.
- Duration of the program can be reduced to three days and more focused on wildlife connectivity impacts and crossings in transport projects.

### **APPENDIX 3:** Useful sources of information (PDFs provided to the participants)

- Mobilizing Sustainable Transport for Development: Analysis and Policy Recommendations from the United Nations Secretary-General's High-Level Advisory Group on Sustainable Transport, 2016
- ADB Natural Capital Tech Report 2019: Protecting and Investing in Natural Capital in Asia and the Pacific
- Biodiversity in Impact Assistance: IAIA
- Biodiversity offsets in theory and practice: Bull et al. 2013
- Best practice guidance for biodiversity: Inclusive impact assessment Rajvanshi, A., Mathur, Vinod B., Iftikhar, Usman A. (CBBIA) Project, (IAIA)
- Eco-friendly Measures to Mitigate Impacts of Linear Infrastructure on Wildlife, WII. 2016.
- Biodiversity offsets and the challenge of achieving no net loss: Gardner et al. 2013.
- Strategic Environmental Assessment: Practical Guidance Manual Part II. Rajvanshi, A., A. Saxena, and K. Bark. 2015.
- Maximizing benefits for biodiversity: the potential of enhancement strategies in impact assessment. Rajvanshi, A., Brownlie, S., Slootweg, R., Arora, R. 2011.
- Biodiversity offsets and infrastructure: Quintero and Mathur, 2012.
- Connecting tiger populations for long-term conservation Qureshi et al, 2014. National Tiger Conservation Authority & Wildlife Institute of India
- How effective is road mitigation at reducing road-kill? A meta-analysis. Rytwinski et al. 2016.
- Strategic Environmental Assessment at the World Bank, 2012.
- Strategic Environmental Assessment: A guidance tool for mainstreaming biodiversity and sustainability in development planning. Rajvanshi, A. 2015
- Valuation of Ecosystem Services and Strategic Environmental Assessment: Lessons from Influential Cases. Slootweg, R., Beukering, P. 2008
- Biodiversity conservation in road projects: lessons from World Bank experience in Latin America. Ledec, G., Posas, P. 2003

### APPENDIX 4: List of registered participants at the workshop

Organisation	Country	Name	Email
Asian Development Bank	Bangladesh	Mr. Md Humayun Kabir	mkabir@adb.org
Asian Development Bank	Nepal	Mr. Bhupendra C. Bhatt	bbhatt@adb.org
Road Development Authority, Ministry of Highways, Road Development & Petroleum Resources Development	Sri Lanka	Mr. Wijayasinghe	malakanavin@gmail.com
Colombo Sub- Urban Railway Project, Ministry of Transport & Civil Aviation	Sri Lanka	Mr. Kankanange	piyarathnepk@gmail.com
Department of Roads, Regional Office, Trongsa	Bhutan	Mr. Dorji	dorji@mowhs.gov.bt
Department of Roads	Nepal	Ms. Shubha Shrestha	sathi99@gmail.com
Department of Roads	Nepal	Ms. Shova Giree	shovagiree@gmail.com
Road Transport and Highways Division	Bangladesh	Mr. Faeg Ahammad	faegbuet99@gmail.com
Ministry of Railways	Bangladesh	Mr. Md. Ali Kabir	kabirfd@gmail.com
Government of Rajasthan	India	Mr. Girish Dutt Sharma	girishdutt1810@gmail.com
NHAI, PIU - Kota, Rajasthan	India	Mr. Brajendra Singh Meena	brajendrameena1990@gmail.com
NHAI PIU-Katni, RO-Bhopal, Madhya Pradesh	India	Mr. Ramvilas Singh Patel	ramvilaspatel1@gmail.com
NHAI, PIU-Bhavnagar, Gandhi Nagar, Gujarat	India	Shri Rahul Meena	piubhavnagar@nhai.org
NHAI, Sambalpur, Odisha	India	Shri Chandan Kumar	sairaman592015@gmail.com
NHAI, Dehradun	India	Miss Meenu	routtarakhand@nhai.org meekum03@gmail.com
Intercontinental Consultants & Technocrats Pvt. Ltd., New Delhi	India	Ms. Tamosi Bhattacharya	tamosi.bhattacharya@ictonline.com
PADECO India Pvt. Ltd	India	Mr. Bhavesh Vyas	bhavesh.vyas@padeco.co.in
World Bank	India	Mr. Kh. Khabilongtsup	kkhumujam@worldbank.org
NBCC	India	Mr. Priyesh Kumar Garg	priyeshgarg@gmail.com
NBCC	India	Mr. Ram Chandra Majhi	rc.majhi@nbccindia.com

### **ANNEXURE**

### Annexure



भारतीय वन्यजीव संस्थान Wildlife Institute of India



### COURSE EVALUATION

### Program Title: Building capacity for conserving and managing natural capital during the planning and implementation of transportation projects in South Asia Date: 15th - 19th July 2019 Time: Venue: WILDLIFE INSTITUTE OF INDIA

Department	National	HIMWAYS	Authority of	India
	A PARTY AND A REAL PROPERTY AND A REAL PROPERTY.			A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PRO

Years of work in the subject matter	less than 1 year	1 · 3 years	4-10 years	> 10 years
of the program/event				

#### SATISFACTION EVALUATION

Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Content						
Content of the learning program	4					
Relevance of the content to your work	V					
Duration of the learning program	V					
Program Objectives						
Objectives were stated clearly	V					KET OF
Objectives support desired results	V					
Learning outputs were clear and support objectives	V					
Objectives were achieved	V					
Constare				the second	162	11

A Construction of the owner of the		Dr. Vinod Math	ur, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	4	0
Review of global development bends in road and rail sectors and challenges for biodiversity conservation	~					
Planning road development in high value conservation forests: New insights	V					
Promoting Eco-filendly measures to mitigate impacts of linear infrastructure developments on widtles. From test practice prescriptions to implementation	~					
Case examples of offsets	~					TIGHT
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	~	2000	- Peaking		-	
Shri Pravees	Pardeshi, IAS. Com	missioner, Brihar	mumbal Nunicip	el Corporation, Munt	iai	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	V		1			Interest of





TREEMERICAN		Dr. Asha Rajvans	hi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
The relevance of mainstreaming biodiversity in planning and implementation of development projects	5				10-2-1	
Nature engineering principles and elements of smart green infrastructure	V		5			
Relevance of transportation ecology in promoting green transportation infrestructure	~			TE BE	1 and and	
Good practice guidance for infrastructure development and design: Experiences from India	V	THE OPT		and the second	1. 27	-
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	V	1.8 mar				14 4
Introduction to a SEA Plan: Hands-on Exercise	V			1200-35	Enter -	
Review Group exercise	V	0.5372		2 Maria		
Concept to practice	V	-		1000		
offset scheme for linear developments in a forested landscape	~					
Terosec a secondre		Dr. Matvika Onia	L WE		100 march 100	-
State of the second	Mary Safellad	Referend	Render	Diseasiefing	Very	Not
	Very Gassiles	decision		0.000	Dissatisfied	Applicable
Introduction in the course	1	-				
Conservation and Management of Natural	~					-
Capital for achieving Sustainable Development Goals	~			No.		
Framework for manstreaming biodiversity in planning and implementation of developments in transportation sector.	~			IN PAR		
	Mr.	Norris Dodd, Cons	ultant, ADB	the second second		Statement of the
Concerns of the second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Vary	Not
				1	Dissatisfied	Applicable
Prospects and challenges of greening transport infrastructure in South Asia: An overview	V					
Impacts of Ralways on Elephants: Experience from Bangladesh	V					1
Implementation of wildlife mitigation measures: Governance challenges	4			T Pating		2
and rail sectors: Lessons learnt from road projects in North America and other countries	V				13.5	
A CARACTERIA CONTRACTOR CONTRACTOR	Mr. Francisco	Ricclardi, Environ	ment Specialist,	ADB	ii?	A.X. South and the
A CONTRACTOR OF THE OWNER	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
				1	Ussatisfied	Applicable
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects	V					
		Mr. Ajay Desal, Co	nsultant		111 T	
			-		Verv	Not
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
Impacts of Railways on Elephants -Experience	5	4	3	2	1	0
	-	Dr. Suresh Kuma	ar, Wil			(Lagrand
A STATE OF THE STATE OF THE STATE	Very Satisfied	Satisfied	Neutrai	Dissatisfied	Very	Not
	5	4	3	1	Unsatisfied	Applicable
Developing context sensitive solutions for other linear infrastructure projects		~				





### अगरतीय वन्यजीव संस्थान Wildlife Institute of India



	Ganeriea	wentai	Dissibilied	Distatisfied	Applicable
5	4	3	2	1	0
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ently weli for ork		$\checkmark$			
	Completely	Almost Completely	Partially	Almost Not at All	Not at All
ive you the	~				
	Excellent	Good	Average	Poor	Very Poor
saming	~				
Yes	No	1			
~					
	ive you the	Version No	Image: Second	Image: Second state of the se	Image: Second

2. What do you think were the biggest weaknesses of the learning program?

infrastructure project by minimizing the impacts on the



[4]



# भारतीय वन्यजीव संस्थान Wildlife Institute of India



# COURSE EVALUATION

Date: 15th - 19th July 2019	Time:			Venue: WILDLIFE	INSTITUTE OF	INDIA
Sate. Tom - Isti buly to to	1					
Department	National	Highwo	ys Aut	narity of	India	
		0	0	0 .	-	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the program/event						
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Content						
Content of the learning program	~		n mines			
Relevance of the content to your work	V				701	
Duration of the learning program	V				201013	.S
Program Objectives			04			
Objectives were stated clearly	V					
Objectives support desired results	V					1
Learning outputs were clear and support objectives	~	1.8.21.8.9		BEL S		
Objectives were achieved	~			1	-	
Speakers			15018			
		Dr. Vinod Math	ur, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Review of global development hends in road and rail sectors and challenges for blockversity conservation	~				1.1000	
Planning road development in high value conservation forests: New insights	/		1.5 - P	ALL STATE A	1.131.8	
Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	~					
Case examples of offsets						
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	~					
Shri Pravee	n Pardeshi, IAS, Com	missioner, Briha	umumbai Munic	ipal Corporation, Mumi	ini	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	0	4	3	2	1	0
Keynote address			The second second			





		Dr. Asha Rajvan	shi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
And the second second second	5	4	3	2	lissanared	O
The relevance of mainstreaming biodiversity in planning and implementation of development projects	~					
Nature engineering principles and elements of smart grean intrastructure	V			518		
Pelevence of banaportation ecology in promoting green transportation infrastructure	~					
Good practice guidance for infrastructure development and design: Experiances from India		V				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		78		- Andrews		
Introduction to a SEA Plan: Hands-on Exercise						-
Review Group exercise	~					
Offsets for compensating residual impacts: Concept to precise	~				LE SE	200
Introduction to Group exercise for evaluating an offset scheme for linear developments in a firmeted landerage	~	- Alexan		-		
Tertartora de Naciona		Dr. Malvika Onit	al, Will		The Party of the	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Vary	Not
	5	4	3	2	Dissatisfied	Applicable
Introduction to the course	1					
Conservation and Nanagement of Natural Capital for achieving Sustainable Development Goals	~					
Framework for mainstreaming blockversity in planning and implementation of developments in transportation sector	~			16.272		
	Mr.	Norris Dodd, Cons	suitant, ADB			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	Approaute
Prospects and challenges of greening transport infrastructure in South Asia: An eveninew	~					
Impacts of Railways on Elephants. Experience from Bangladesh	~			1511-20		
Explementation of wildlife mitigation measures: Governance challenges	1	0000				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	~				121.4	
	Mr. Francisco	Ricciardi, Enviror	ment Specialist,	ADB	195-1	- 10 · · · · · ·
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Applicable
	5	4	3	2	1	0
The Planning and Implementation of Transportation Projects	-	~				
and an and a second	21.31	Mr. Ajsy Desai, Co	esultant			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissetisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants -Experience from India	~			Sale of the	1000	
		Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Ussatisfied	Appreable
Developing context sensitive solutions for other linear infrastructure projects	~					



### भारतीय वन्यजीव संस्थान Wildlife Institute of India



Byash Pandar	any susses				Very	Not
Bivash Pandar		4	3	2	1	0
and the second se	~					
Anil Kumar Singh		1		11.2	1	-
	A CONTRACTOR OF THE OWNER.		and the second second		Carlo Maria	
athodology and Materials						
e and quality of presentation aterials	V		The second			-
e and quality of handouts/reading aterials				in a series		
propriateness of overall methods ed	~	1				
poistics and Administrative Suppor	t					
e program communications &	V			23010		
зпио	~					
upport provided by organizers						
			10	200 - C	No. 199	1
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at A
ave the discussions prepared you suft tapting what you have learned to your twironment?	iciently well for work	~				
		-	-		Almost Net	
Learning Evaluation		Completely	Almost Completely	Partially	at All	Not at Al
o what extent did the learning program nowledge, skills and attitudes you nee	n give you the d?		$\checkmark$			
Overall Program Qual	ity	Excellent	Good	Average	Poor	Very Poo
verall assessment on the quality of th rogram	e learning	V		4	1	
Encouraning Participation	Yes	No	1			
All you recommend the learning rogram to others?	1					
ROGRAM EVALUATION						
		VICTORIAN - MARKING			-	
. What do you think were the bigge	st strengths of the	learning progra	m? ()	EI E		

2. What do you think were the biggest weaknesses of the learning program? Nothing, just one suggestion, during field visit their should be the provision to go inside the Rejaji National park and had one interaction session their.

[3]

SD THAN र भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning? Procedure for clearance & proposal stage vise and the timeline. 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) equiped with the wildlife information, rul renability and measures to reduce the impact on wildlife. New Skills (e.g. project formulation, processing, management, etc.,) New Attitudes (e.g. flexibility, being more responsive, etc..) 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this vear. Putting more sensitive towards the project stretch intoith is particularly passing through any Protected areas. 6. Any other comments/remarks? This type of programs should be conducted frequently. Thank you for your feedback.

# COURSE EVALUATION

भारतीय वन्यजीव संस्थान Wildlife Institute of India



	1			1412	laken m	107A
Program Title: Building cap and implementation of trai	acity for con	serving and	i managing	natural capita	during the	planning
Date: 15th - 19th July 2019	Time:	ojects in c	outil Asia	Venue: WILDLIF	INSTITUTE OF	INDIA
Department	Road De	uclipment	Authori	ty, Sri L	enka.	
				2.		
Years of work in the subject matter	less than 1	1.3.0000	A.10 years	> 10 years		
of the program/event	leas	1+o years	+ to years	V		
	M					
SATISFACTION EVALUATION	1		-	-	Alema	Net
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
NT TO A NOT THE OWNER	5	4	3	2	1	0
Program Content						-
Content of the learning program	~	-	12113			
Relevance of the content to your work	V				1.5	
Duration of the learning program			V			1
Program Objectives	,					
Objectives were stated clearly	~					1223
Objectives support desired results	~			Constant Income		-
Learning outputs were clear and support objectives	1			all sort		
Objectives were achieved	1			1000		
Speakers		i inter				
		Dr. Vinod Math	ur, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
end rail sectors and challenges for biodiversity conservation	~					
Planning road development in high value conservation forests: New insights	V			See Card	The second	
Promoting Eco-friendly measures to intrigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	~			No.		
Case examples of offsets		~		Territoria (		18
Introduction to Group exercise for evaluating an offset achieve for linear developments in a forested landscape	/					
Shri Praveer	Pardeshi, IAS, Com	missioner, Briha	nmumbai Municij	pal Corporation, Mumi	lai	
57 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not
Contrast Alexan	5	- 43	3	2	1	0
Keynote address	~			14	THE STATE	





		Dr. Asha Rajvan	shi, Wil			
and the second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
and the second second	5	4	3	2	1	0
The relevance of mainstreaming biodiversity in planning and implementation of development projects	~					
Nature engineering principles and elements of smart green infrastructure	~		2	aure		
Relevance of transportation ecology in promoting green transportation infrastructure		~				IN A
Good practice guidance for infrastructure development and design: Experiences from India	No.	-	~			1325
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	4		~		1200	The second
Introduction to a SEA Plan: Hands-on Exercise			~			1000
Review Group exercise		/		I SALE AND		1233
Offsets for compensating residual impacts: Concept to practice		/				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a freested landscare.	/			1225	The second	
ruesen anderen		Dr. Malvika Oni	af, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Lissatistied	Applicable 0
Introduction to the course	~					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		/			Par Str	
Framework for mainstreaming biodiversity in planning and implementation of developments in transcontation sector		1				
	Mr.	Norris Dodd, Con	sultant, ADB	-	Martin La	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Vary	Not
	5	4	3	2	1	D
Prospects and challenges of greening transport Intrastructure in South Asia: An overview	1	/	Sec. 1		12 21	
Impacts of Railways on Elephants: Experience from Bangladesh		V				
Governance challenges		~				
Developing context sensitive solutions for road and rail sectors: Lessors learnt from road projects in North America and other countries	~			1.55	10.00	
	Mr. Francisco	Ricciardi, Enviro	nment Specialist,	ADB	W DESA	ann -
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects			~			
		Mr. Ajay Desal, Ca	onsultant			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Apelicable
	5	4/. +	3	2	1	0
Impacts of Railways on Elephants -Experience from India	~		10			1000
		Dr. Suresh Kum	iar, Will			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	ussatisfied	Applicable
Developing context sensitive solutions for other linear infrastructure projects	/					







FIELD TRIP + To revie	w the conservation cha	allenges associated	with the linear infrest	structure projects (Rai	and Road)	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
and be made	5	4	3	2	1	0
Dr. Bivash Pandav				507		
Dr. Anil Kumar Singh		~				
and the state of the state	And in case of the second			-		-
Methodology and Materials				to an an an an	and the second	
Use and quality of presentation materials	~	15	4	ines a la		
Use and quality of handouts/reading materials			200			
Appropriateness of overall methods used	/			AUS COM		
Logistics and Administrative Suppo	n					
Pre-program communications & confirmation	1			The series		
Venue						
Support provided by organizers	/			See 1		
Probability of Achieving	Results	Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you su adapting what you have learned to you environment?	fficiently well for ar work	/	NOT T			
Learning Evaluatio	n	Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning progra knowledge, skills and attitudes you nee	m give you the ed?		~			
Overall Program Qua	lity	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the	ne learning		/	Slates		
				Sand B		
Encouraging Participation	Yes	No				
Will you recommend the learning program to others?	1			-	No.	

#### PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? Reaching the context rensitive mitigation measures to minimize ecological Impacts using examples correct out in the ground. 2. What do you think were the biggest weaknesses of the learning program? Programs is very hight with lectures and it would be better if more field level learning is incorporated.

SD WINNER भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning? Program mostly covered tota behaviour of large animals but road bills are equally applicable for small animals. Therefor equal attention to be paid for measures to relive small animals. 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) Openness ratio. New Skills (e.g. project formulation, processing, management, etc.,) New methods of each studying animal behaviour such a commera trapping etc... New Attitudes (e.g. flexibility, being more responsive, To be more scusifive on road ecology. etc.) 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? year. - Environmental arseesments which I will be invelved will be impavel with the busicledge gainel. - Ent Higherige which on under operation can be upgraded with - facsible measures. - In menitering of environmental sufaguerle compliace. 6. Any other comments/remarks? List at most 3 action items you intend to pursue this Thank you for your feedback.







# COURSE EVALUATION

Program Title: Building cap and implementation of tran	acity for consistent on p	rojects in S	managing i outh Asia	natural capita	a during the	planning
Date: 15th - 19th July 2019	Time:		or a	Venue: WILDLIF	E INSTITUTE OF	INDIA
	Ma. A	-lu kg	Joing &	candy se	gretory.	1
Department	Minus	stry of	i Kau	loogs,	Bangla	desh
Years of work in the subject matter of the program/event	less than 1 year	1 - 3 years	4-10 years	> 10 years		
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Content		- 45				
Content of the learning program		V			1.5	- 1 3-
Relevance of the content to your work	10 columns	V		8		
Duration of the learning program			V			
Program Objectives						
Objectives were stated clearly		100		191		
Objectives support desired results		V				
Learning outputs were clear and support objectives					1	
Objectives were achieved		V		Thickers		
Speakers	States and the					
		Dr. Vined Math	ur, Wil			
NAME OF BRIDE PARTY.	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not
	5	4	3	2	1	0
Review of global development trands in road and rail sectors and challenges for biodiversity conservation	V			10.38		Ye -
Planning road development in high value conservation forests: New insights		V				275
Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	$\checkmark$			Res I	DA NE	
Case examples of offsets	V	/				2
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forestad landscape						
Shri Pravos	Pardeshi, IAS, Con	nnissioner, Briha	mumbal Municip	al Corporation, Mum	bal	
	Very Satsfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable 0
Keynote address	V					





		Dr. Asha Rajvan	shi, Will			
	Very Satisfied	Satisfied	Neutral	Dissetisfied	Very Dissatisfied	Not Applicable
The relevance of mainstreasting birds wells in	5	4	3	2	1	0
planning and implementation of development projects	$\checkmark$	2.5				
Nature engineering principles and elements of smart green infrastructure	V		1			12
Relevance of transportation ecology in promoting green transportation infrastructure	V/					
Good practice guidance for infrastructure development and design: Experiences from India	V	1				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	1	V				
Introduction to a SEA Plan. Hands-on Exercise	V	/	The set of	A PORT		E.E.S.
Review Group exercise	V	V				
Offsets for compensating residual impacts Concept to practice	V	1			12010	10 8
Introduction to Group exercise for evaluating an offset scheme for linear developments in a freeted anticcare		-	A GOR	bill 20	1.2.	13
- Menter encode		Dr. Malvika Onis	al WII		-	and the second s
	Very Satisfied	Satisfied	Neutral	Dissellation	Very	Not
	5	6	3	2	Dissatisfied	Applicable
Introduction to the course	V				1	
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	1	-	1		1	
Framework for mainstreaming blodiversity in plenning and implementation of developments in transportation sector.						
	Mr.	Norris Dodd, Con	suitant, ADB			
	Very Setisfied	Satisfied	Neutral	Dissatisfied	Very	Not Applicable
	5	K	2	2	1	0
Prospects and challenges of greening transport Infrastructure in South Asia: An overview		V				
Impacts of Railways on Elephants: Experience from Bangladesh		V	22		2583	
Implementation of wildlife mitigation measures: Governance challenges		V		1999	C-14	
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects is North America and other countries	V					
	Mr. Francisco	Ricciardi, Enviror	nment Specialist,	ADB	1	1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
	5	4	3	2	4	0
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		V				-
		Mr. Ajay Desai, Co	moultant			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Insurants of Distantias as Firstheads - Freedow	5	4/	3	2	1	0
mpeus of realways of Elephants -Expendice from India		V			1	1.200
		Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
and the second second	5	×	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		V				-



# भारतीय वन्यजीव संस्थान Wildlife Institute of India



FIELD TRIP - TO review	the conservation ch	allenges associated	with the linear infras	tructure projects (Ra	ni and Road)	Prot
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Discasified	Applicable
	5	4	3	2	1	0
Dr. Blvash Pandav Dr. Asil Kumar Singh	V	V				
or. Ann Austral origin				and the second second	L Carlo Cole Co	
Methodology and Materials						
Use and quality of presentation materials	V			Spieles.	120.00	
Use and quality of handouts/reading materials	300	~				
Appropriateness of overall methods used		V				
Logistics and Administrative Support		- 1-	-		- Carrie	in the second
Pre-program communications & confirmation	2	~	at soul			1
Venue	/	V				
Support provided by organizers	V				1 States	
	-				18	
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you suff adapting what you have learned to your environment?	iciently well for work		$\checkmark$			
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program knowledge, skills and attitudes you need	give you the 1?					
Overall Program Quali	ty	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the program	learning		$\checkmark$			
Encouraging Participation	Yas	No	1			
Will you recommend the learning program to others?	$\checkmark$	-			1300	
PROGRAM EVALUATION						
1. What do you think were the bigges	t strengths of the	learning progra	m? plani	ly of	case	-
studies t	, expl	ain 1	the sid	watron	1	
2. What do you think were the bigges	t weaknesses of	the learning prog	gram? DU	valioi	101	-
	0.00	1.			1	

Carlo Charles भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas topics do you think could have been included to further improve the discussions and design to maximize learning? Biddiversity special reference to could asian Quintrios 4. What new knowledge, skills and attitudes have you gained from the learning program? en Knowledge (on the different focus areas of the Road/Rail Ruelogy, BLT-aming program) Strain streaming, SEA, OFFERER. New Knowledge (on the different focus areas of the learning program) satistactory New Skills (e.g. project formulation, processing, management, etc.,) fair New Attitudes (e.g. flexibility, being more responsive, etc.,) 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this Dohazari- cosis Bazar Rail line Wilcot. year. divensity of in food required. 6. Any other comments/remarks? Thank you for your feedback.



### अगरतीय वन्यजीव संस्थान Wildlife Institute of India



### COURSE EVALUATION

Program Title: Building cap and implementation of tran	acity for consistent of the second se	serving and rojects in S	managing outh Asia	natural capita	I during the	planning	
Date: 15th - 19th July 2019	Time:			Venue: WILDLIFE INSTITUTE OF INDIA			
			R and				
Department Organizatio	h PA	HDECO	IND	IA PRIVI	ATE ZT	id.	
Years of work in the subject matter of the program/event	less than 1 year	1 - 3 years	4-10 years	> 10 years	]		
SATISFACTION EVALUATION		1999					
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable	
	5	4	3	2	1	0	
Program Content						10	
Content of the learning program			IN THE				
Relevance of the content to your work	1	TEN S					
Duration of the learning program							
Program Objectives							
Objectives were stated clearly	~						
Objectives support desired results						1.00	
Learning outputs were clear and support objectives					E TENS		
Objectives were achieved	$\checkmark$			1			
Speakers							
		Dr. Vinod Math	ur, Wil				
- The second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Applicable	
	5	4	3	2	1	0	
Review of global development trands in road and rail sectors and challenges for biodiversity conservation	1		1. 1. 1			1	
Planning road development in high value conservation forests: New insights	~		200		1-5.5		
Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife: From thest practice prescriptions to implementation	~						
Case examples of offsets	~		-			-	
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	1			-			
Shri Pravee	n Pardeshi, IAS, Con	nmissioner, Briha	nmumbai Munici	pal Corporation, Mum	bai		
	Very Satisfied	Satisfied	Neutral	Dissatistied	Very Dissatisfied	Not Applicable	
	5 /	4	3	2	1	0	
Keynote address	1		States and				





		Dr. Asha Rajvar	nshi, Wil			
S S COL	Very Satisfied	Satistied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The relevance of majorite prior his through the	5	4	3	2	1	0
planning and implementation of development projects	~			ALC: N		
Nature engineering principles and elements of smart green intrastructure	/					-
Relevance of transportation acology in promoting preen transportation infrastructure.		1997		- HANGLER R		
Good practice guidance for infrastructure development and design: Experiences from India	~			St. D.		
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	V.					-
Introduction to a SEA Plan: Handa-on Exercise	/					
Raviow Group exercise	1.	1225	DES			
Offsets for compensating residual impacts: Concept to practice	~					
Introduction to Group overcise for evaluating an offset scheme for linear developments in a forested landscape	The state		1.223			
	12	Dr. Malvika Oni	al, Will		10-20-20-20-20-20-20-20-20-20-20-20-20-20	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Dissatisfied	Applicable
Introduction to the course					1	
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		~		- Contraction		
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector.						
Construction of the second	Mr.	Norris Dodd, Con	sultant, ADB	A COLUMN TWO IS NOT	ALC: NOT THE OWNER.	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Desaustied	Applicable
Prospects and challenges of greaning transport intrastructure in South Asia: An overview	V,					
from Bangladesh	~	,				
Governance challenges		~		C REGIL		1.00
and rai sectors: Lessons learnt from road projects in North America and other countries	$\checkmark$					
	Mr. Francisco	Ricciardi, Enviro	nment Specialist.	AOB	10	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
1984 - Orderst and Lines in Product State and Provide to	5	4	3	2	1	0
Wity, Wrist and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		1		and the state		
		Mr. Ajay Desai, Co	insultant			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	3/	4	3	2	1	2
nomindia		Dr. Suresh Kum	ar. Wil		-	
					Van	Net
	very Satisfied	Salisfied	Nestral	Dissatisfied	Dissatisfied	Applicable
Developing context sensitive onlytons for effort	0	4	3	2	1	.0
linear infrastructure projects	~					





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A SUL THE SEAL	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissotiafied	Not Applicable
	5/	4	3	2	1	D
Y. Bivast Pandav	11					-
Dr. Anii Kumar Singh		-				
Methodology and Materials				and the second	The second	
Use and quality of presentation materials						
Use and quality of handouts/reading materials			it.	all and a	1222	
Appropriateness of overall methods used						
Logistics and Administrative Suppor						-
Dra amaram esemulaisations 2		Contraction of the local division of the loc				
confirmation	V			1		
Venue	V.		-	1933-22	10.2.11	
Support provided by organizers		121215		Siza Si		
			Almost		Aimost Not	
Probability of Achieving R	esults	Completely	Completely	Partially	at All	Not at A
Have the discussions prepared you suft adapting what you have learned to your environment?	iciently well for work	24	$\checkmark$			
Learning Evaluation		Completely	Almost Completely	Partially	Aimost Not at All	Not at Al
To what extent did the learning program knowledge, skills and attitudes you nee	ngive you the d?	/				
Overall Program Qual	ity	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of the program	e learning	/				
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	~		-		-	2

1. What do you think were the biggest strengths of the learning program?

clock work precision in planning the event.

2. What do you think were the biggest weaknesses of the learning program? - Mose field trips would be welcome

I received the training programme only upon reaching the venue. Everything else was fine. [3]

भारतीय वन्यजीव संस्थान Wildlife Institute of India What other areas topics do you think could have been included to further improve the discussions and design to maximize learning? A presentation on a sample Animal Passage Plan. It is expected to be submitted to CWLW for clearance. 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the "saming program) Integrating Biodiversity concerns into an EIA. New Skils (e.g. project formulation, processing, management, etc.,) - project formulation and project management. New Attitudes (e.g. flexibility, being more responsive, - Sensitivity (to Biodiversity concerns) especially with respect to avian usines in Biodiversity) 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this Sensitize colleagues at werkplace year. - Share the resource material provided. - Implement the learnings in projects 6. Any other comments/remarks? A big thank you to WII and ADB for making this event possible. Thank you for your feedback.



# भारतीय वन्यजीव संस्थान Wildlife Institute of India



# COURSE EVALUATION

Program Title: Building cap and implementation of tran	acity for cons sportation p	serving and rojects in S	managing outh Asia	natural capita	I during the	planning
Date: 15th - 19th July 2019	Time: 2:30 p.m.			Venue: WILDLIFE	INSTITUTE OF	INDIA
		1//			2	
Department	Emu. Div.	, ICT. 1	NF. 14d.	Tamos	rt B.	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the programievent			V			
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
1.40 S (0 S - 0	5	4	3	2	1	0
Program Content					1.1	
Content of the learning program	~					
Relevance of the content to your work	~		1000			
Duration of the learning program		~				
Program Objectives			1915		1000	
Objectives were stated clearly		1000				
Objectives support desired results	V		-	1.25		
Learning outputs were clear and support objectives	~		1000	TRICK I	141.31	
Objectives were achieved	V					
Speakera	11					2.5
	STREET, STREET, ST	Dr. Vinod Math	ur, Wil			
Restrict Property lies	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not Applicable
101	5	4	3	2	1	9
Review of global development trends in road and rail sectors and challenges for blodiversity conservation	1		H-x	1000		
Planning road development in high value conservation forests: New insights	~				1000	
Promoting Eco-Herely measures to miligate impacts of linear infrastructure developments on widthe: From best practice prescriptions to implementation	~					
Case examples of offsets	~					
introduction to Group exercise for evaluating an ofiset scheme for linear developments in a forested landscape	~	-				
Shri Pravee	Pardeshi, IAS, Con	omissioner, Briha	nmumbai Munici	ipal Corporation, Mumi	bai	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
1 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	4	3	2	1	0
Keynote address	100-2010-00	5	THE COM	A DESCRIPTION OF TAXABLE	111201	Contraction of the local division of the loc





		Dr. Asha Rajvan	ishi, WII			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The relevance of mainstreaming hied worth in	5	4	3	2	1	0
planning and implementation of development projects	V		1	- Conto		12
Nature engineering principles and elements of smart green infrastructure	~	122				
Relevance of transportation ecology in promoting green transportation infrastructure	V				1.5.2.2.	
Good practice guidance for infrastructure development and design: Experiences from Initia	$\checkmark$					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation			2	E Carace	Roars	
Introduction to a SEA Plan: Hands-on Exercise			Sales 1			No. 1
Review Group exercise	~				2.04	ETE2
Offsets for compensating residual impacts Concept to practice	$\checkmark$	di sik	1 × 21			
Introduction to Group exercise for availuating an offset scheme for linear developments in a forested landscape	$\checkmark$				1	
		Dr. Malvika Oni	al, WII	1		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Introduction to the course	~	220R/L			1 200 200 200	the state
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	~		-			PAL
Framework for mainsteaming biodiversity in planning and implementation of developments in transportation sector.	~				Pred Pre	
	Mr.	Norris Dodd, Con	sultant, ADB	-	A Local Division in which the	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Prospects and challenges of greening transport infrastructure in South Asia: An overview	V			DATE SIT		
Impects of Ratiways on Elephants: Experience from Bangladesh	V,	the sector		BE L		1000
Implementation of widate mitgation measures: Governance challenges	~	1	Beer	Britan		
and rail sectors: Lessons learnt from road projects in North America and other countries	V				1	
and the second se	Mr. Francisco	Ricciardi, Enviror	nment Specialist.	ADB	all -	1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	-5	4	3	2	1	0
Why, what and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects	$\checkmark$	No.	Hine I	Entra Bell		N
and a second sec		Mr. Ajay Desai, Co	nsultant			
	Very Satisfied	Satisfied	Neutral	Dissetisfied	Very Dissatistied	Not Applicable
impacts of Dalayase as Directory, Providence	5 /		3	2	1	0
Impacts of Harways on Elephants -Experience from India	$\checkmark$			-	1282 8 13	1
		Dr. Suresh Kum	ar, Wil		10	
	Very Setisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisted	Not Applicable
a de la companya de l	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	~				12.22	







FIELD TRIP - To revie	w the conservation cha	allenges associated	with the linear inti	rastructura projects (Ri	all and Read)	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disastisfied	Not Applicable
State Washington	5	4	3	2	1	0
Dr. Blvash Pandar	~					
Dr. Anil Kumar Singh		V				
	the second s	And an other dates			-	
Methodology and Materials					in the second	
Use and quality of presentation materials						
Use and quality of handouts/reading materials	~		1000			
Appropriateness of overall methods used			1243			
	Contraction of the	Statistics of the	1000 C	and the second second	1	-
Logistics and Administrative Support	1		and the second s	and the second second	A CONTRACTOR OF	
Pre-program communications & confirmation	V				12.00	
Venue	V.					
Support provided by organizers	~					
Probability of Achieving R	lesuits	Completely	Almost Completely	Partially	Almost Not at All	Not at All
Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?				W March		322
Learning Evaluation	1	Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program knowledge, skills and attitudes you need	n give you the d?			~		
		-	6 ml	-	Deer	Many Dage
Overall Program Qual	ity	Excellent	Good	Average	Poor	very Poor
Overall assessment on the quality of the program	e learning	$\checkmark$		1. 5.56	1-162	
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	~			the seat	1	212

#### PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program PIn depth knowledge of trainers the group exerces

2. What do you think were the biggest weaknesses of the learning program?

Less Home.





3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning? Impacts of light & Naise generated from lafra projects on wildlife behaindows 9 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the Applicabity of various passage technique . (2) That the species characteristics is a significant oriteria that helps design the parsages. Bas offset is a strong concept & shell be taken forwood. New Skils (e.g. project formulation, processing, management, etc.,) managing of mitigation New Attitudes (e.g. flexibility, being more responsive, being more comprehensive 2 proactive. etc.,) How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this > Pursue PP for cumulative assessment. -> Like to take up the matter of SEA with some top affirmets of the cantry so that an autonomes organish ny other comments/remarks? 6. Any other comments/remarks? Want another training more on specific behainden a mitigation measures Thank you for your feedback. It Doing the study on impact on we is a part of ErA. Ofcourse dehailed one needs expert inputs from especitised institutes. Sutable et can be practie to be responsive enough



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### COURSE EVALUATION

	Time: 2 co. PM Venue: W			Venue: WILDLIFE	IL DI IFE INSTITUTE OF INDIA		
Date: 15th - 19th July 2019	Time: 2.00 Time			Trender median		-	
Department	DEPARTM	ILNT OF F	COADS, 1	SHUTAN.			
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years	-		
			18.0	diate 2	-		
SATISFACTION EVALUATION	Van: Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not	
Program Area	very saushed	Jauaneu	neutra	Disseriance	Dissatisfied	Applicable	
	5	4	3	2	1	0	
Program Content							
Content of the learning program	V						
Relevance of the content to your work	$\checkmark$	1.00		H			
Duration of the learning program			V				
Program Objectives							
Objectives were stated clearly	V						
Objectives support desired results	V			1.35			
Learning outputs were clear and support objectives	V				1		
Objectives were achieved	$\checkmark$			100000		Contraction of the second	
Speakers							
Contraction of the second		Dr. Vinod Math	ur, Wil				
SALES STATISTICS	Very Satisfied	Satisfied	Neutral	Discatisfied	Very Dissatisfied	Not Applicable	
	5	4	3	2	1	0	
Review of global development bends in road and rail sectors and challenges far bloctversity conservation	STI NS	V					
Planning road development in high value conservation forests: New insights	V	TO SEE				1	
Promoting Eco-Mendly measures to miligate impacts of linear intrastructure developments on wildlife. From best practice prescriptions to implementation.		~					
Case examples of effects	V			1 - State		-	
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		V	-				
Shri Praveer	Pardeshi, IAS, Con	nmissioner, Briha	nmumbal Munit	cipal Corporation, Must	ibal	14	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissetiation	Not Applicable	
	the second se	the second se	and the second se		ALC: NOT THE REPORT OF		





		Dr. Asha Rajvar	oshi, Wil			
In the Pear of M	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disaatiafied	Not Applicable
The relevance of mainstreaming biodiversity in	5	4	3	- 2	1	0
plenning and implementation of development projects		V				
Nature engineering principles and elements of smart green infrastructure	~					
Policyanos of transportation ecology in promoting green transportation infrastructure		~		2. (H)		1.5-10
development and design: Experiences from India	~		the Post	Carl Mar	Eltore	
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	~					
Introduction to a SEA Plan: Hands-on Exercise		~				ala
Review Group exercise	./		10. 100	The second second		Distant in
Offsets for compensating residual impacts: Concept to practice	12	1				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested and scale.		~				
		Dr. Malvika Oni	al, Will		20	-
and the second sec	Very Satisfied	Satisfied	Nestral	Disseliefied	Very	Not
	5	1	3		Dissatisfied	Applicable
Introduction to the course	V					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	/	SPACE.				
Framework for mainstreaming blodwersity in planning and implementation of developments in transportation sector.		~		THE STATE		
- Contraction -	Mr.	Norris Dodd, Con	suitant, ADB	AND INCOME.	-	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
Bernethand	8	4	3	2	1	0
Incodeus enticitatenges of greening tansport Infrastructure in South Asia: An overview	~					
from Bangladesh			the second		1 2 2 5	
Implementation of wildlife mitigation measures: Governance chatenges		~				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		~	ieu -	1		
	Mr. Francisco	Ricciardi, Enviror	ment Specialist,	ADB		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	Applicable
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		~	Robert			-
		Mr. Ajay Dessi, Co	nsultant			
	Vory Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5	4	3	2	1	0
from India		V		10-10-10-10-10-10-10-10-10-10-10-10-10-1		
		Dr. Suresh Kum	ar, WII			
	Very Satisfied	Satisfied	Neutrai	Dissatisfied	Vary Dissatisfied	Not
Development context context in a set time to a the	5	4	3	2	1	0
linear infrastructure projects		1			1.000	



# भारतीय वन्यजीव संस्थान Wildlife Institute of India



FIELD TRIP + TO TEVIE	a File Coursel Associa cur	anenges associated	wall me miser smide	o manual budieros (nie	Verv	Not
	Very Satisfied	Satisfied	Neutrai	Dissatisfied	Dissetiafied	Applicable
and the second sec	5	4	3	2	1	0
Dr. Bivash Pandav					1	
Dr. Anii Kumar Singh		- V				
Methodology and Materials	-					
Use and quality of presentation materials	~					
Use and quality of handouts/reading materials	1			-		1000
Appropriateness of overall methods used						
Logistics and Administrative Suppo	rt					
Pre-program communications & confirmation					-	
Venue						
Support provided by organizers				115273		
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you su adapting what you have learned to you environment?	fficiently well for r work	~				
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
To what extent did the learning program knowledge, skills and attitudes you need	m give you the ed?		$\checkmark$			
Overall Program Qua	lity	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of the	e learning		~			
	-	1	-			-
Encouraging Participation	Yes	No				
Will you recommend the learning program to others?	V					
PROGRAM EVALUATION						
1. What do you think were the bigge - Glood Coordination ,	st strengths of the	learning progra	ms	t from (	olderit zei	s'
2. What do you think were the bigge	st weaknesses of	the learning prog	gram?		1000	

र भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areasitopics do you think could have been included to further improve the discussions and design to maximize learning? - Mass field visit and handon experiences. 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) Proper assessment of the environment before planning of any chickperment achidiles . New Skills (e.g. project formulation, processing, management, etc.,) - Coordination among the State lotders is must. New Attitudes (e.g. flexibility, being more responsive, etc.,) - Concerning and manging nature is every ones respinivility 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this year. - Share with my collegeog. - Coorelate to practical use - Encorage friends. 6. Any other comments/remarks? Thank you for your feedback.

[4]
# 



and implementation of tran	sportation p	rojects in S	outh Asia			
Date: 15th - 19th July 2019	Time:		Venue: WILDLIFE	E INSTITUTE OF	INDIA	
Department	NHAE					
Department	to-the-				E Inst	1
Years of work in the subject matter	less than 1	-			THE	
of the program/event	year	1-3 years	4-10 years	> 10 years	-	
or the programmerers.						
SATISFACTION EVALUATION		Cultured	Marchael	Disseliefied	Very	Not
Program Area	Very Satisfied	Satisfied	Neutras	Dissatistied	Dissatisfied	Applicable
	5	4	3	2	1	0
Program Content						
Content of the learning program	~					
Relevance of the content to your work		~	3530			1
Duration of the learning program			all is a			
Program Objectives						
Objectives were stated clearly	~					
Objectives support desired results		1				
Learning outputs were clear and support objectives		5				
Objectives were achieved	and the	$\checkmark$				
Speakers			1.3		12.15	
		Dr. Vinod Math	ur, WII			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Review of global development bends in road and rail sectors and challenges for biodiversity conservation						
Planning road development in high value conservation forests: New insights		~	1			-
Promoting Ess-friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	5			1		
Case examples of offsets			110-			
Introduction to Group exercise for evaluating an offset acheme for linear developments in a forested landacape		/			1000	
Shri Pravoo	Pardeshi, IAS, Con	nmissioner, Briha	nmumbai Munici	ipal Corporation, Mum	bal	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
W	5	4	3	2	1	0
Keynote address	1		All strength on the		-	1





		Or. Asha Rajvar	ishi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissetisfied	Not Applicable
The selectory of experimentary highlands in	5	4	3	2	1	0
planning and implementation of development projects	~					
Nature engineering principles and elements of smart green infrastructure		5				No as -
Relevance of transportation ecology in promoting green transportation infrastructure	1000	~			No.	ITERS I
development and design: Experiences from		~	* 17.5			1000
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		and the second	~			
Introduction to a SEA Flan: Hands-on Exercise	~					
Review Group exercise		~			12000	
Offsets for compensating residual impacts: Concept to practice	V			1-2-3-4		
offset scheme for linear developments in a torested landscare				Saute and		
arosee arosept		Dr. Malvika Oni	al, Wil		-	
a contraction of the second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	1	1	2	Dissitisfied	Applicable
Introduction to the course					-	
Conservation and Management of Natural Capital for achieving Systematile Development Goals	S Sector	~	Des alt			
Framework for manaparaming bodiversity in planning and implementation of developments in transportation sector.	/					
	Mr. 1	Vorris Dodd, Con	sultant ADB	and the second second		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not -
	5	4	3	2	Dissatished	Applicable
Prospects and challenges of greening transport infrastructure in South Asia: An overview	~	112				1000
Impacts of Railways on Elephants: Experience from Bangladesh	~				6213	
Implementation of wildlife mitigation measures; Governance citallenges	~		1000			
and rail sectors: Lessons leant from road projects in North America and other countries			12			No.
	Mr. Francisco	Ricciardi, Enviro	nment Specialist,	ADB	11-550 10	THE
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
International Property of the second	5	4	3	2	1	0
Wity, what and How to Protect Natural Capital in the Ranning and Implementation of Transportation Projects	a farmer	V				-
		Ar. Ajay Desai, Ci	onsultant	STREET.		1111
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disastisfied	Not Applicable
Impacts of Railways on Elephants - Experience	5	4	3	2	1	0
tom india	0	Dr. Suresh Kum	ar, Wil			
	H. B.C.R.				Vary	Net
	very satisfied	batisfied	Neubal	Dissatisfied	Dissetisfied	Applicable
Developing context sensitive solutions for other	5	4	1	2	1	
thear infrastructure projects						



## अगरतीय वन्यजीव संस्थान Wildlife Institute of India



FIELD TRIP - To my ex	w the conservation cha	allenges associated	with the linear infras	tructure projects (Ri	il and Road)	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disastisfied	Not Applicable
- We weather	5	4	1	2	1	0
Dr. Bivash Pandav						
Dr. Anil Kumar Singh						
Methodology and Materials			State of the		A DESCRIPTION OF	
Use and quality of presentation materials	3284	~				
Use and quality of handouts/reading materials			5			- 16
Appropriateness of overall methods used		1				
Logistics and Administrative Suppor	1	-	-			
Pre-program communications & confirmation		5		122 110	1 4 4 4 4 4	
Venue		~		202		-
Support provided by organizers	~		1223			-
			Alment		Almost Not	1.00000000
Probability of Achieving R	lesults	Completely	Completely	Partially	at All	Not at All
Have the discussions prepared you suf adapting what you have learned to you environment?	ficiently well for r work	~				
Learning Evaluation	1	Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program give you the knowledge, skills and attitudes you need?			5			
Overail Program Qual	lity	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		~				
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	~					

#### **PROGRAM EVALUATION**

1. What do you think were the biggest strengths of the learning program? It was the learning in with ecophently to main strength was all about the Carl studies. 2. What do you think were the biggest weaknesses of the learning program? weakness of the learning program? to job the weakness of the learning program? problem only.

भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas topics do you think could have been included to further improve the discussions and design to maximize learning? The solution which may adopted economically. 4. What new knowledge, skills and attitudes have you gained from the learning program? -> New knowledge about the ecofriendly Infractincture deriver. New Knowledge (on the different focus areas of the learning program) New Skills (e.g. project formulation, processing, management, etc.,) Management skills. New Attitudes (e.g. flexibility, being more responsive, etc.) being more regionnice. 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this -> design of road w.r.t. the average to nuture year. - Every Individual has its Important. -> New technologi's may adopted. 6. Any other comments/remarks? Thank you for your feedback.



## अगरतीय वन्यजीव संस्थान Wildlife Institute of India



## COURSE EVALUATION

Date: 15th 19th July 2010	Time			Venue: WILDLIEF	INSTITUTE OF	INDIA
Date: 1501 - 15th Suly 2015	Time:			Vende. Millouire	MOTTOTE OF	in Divi
Department	NHAT					
					-	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the program/event	~			and a start		
SATISFACTION EVALUATION				Sectores.	-	
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Content						_
Content of the learning program	V					
Relevance of the content to your work	<ul> <li></li> </ul>					
Duration of the learning program						
Program Objectives						N 14
Objectives were stated clearly	~					
Objectives support desired results	~					
Learning outputs were clear and support objectives		~				
Objectives were achieved		~				
Speakers						
		Dr. Vinod Math	ur, WII			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
So for all obtained also selected and benefit in second	5	4	3	2	1	0
and rail sectors and challenges for biodiversity conservation	~			200		
Planning road development in high value conservation forests: New insights	~				1 1.5 2 7.	
Promoting Eos-friendly measures to miligate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation	~					
Case examples of offsets	~					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	~					1
Shri Pravees	Pardeshi, IAS, Com	missioner, Briha	nmumbal Munici	pal Corporation, Mumb	ai i	an allow
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
and service and the second	5	4	3	2	1	0





		Dr. Asha Rajvan	shi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The olevana of maintenances his domaits in	5	4	3	2	1	0
planning and implementation of development projects	V					
Nature engineering principles and elements of smart green infrastructure	V					
Relevance of transportation ecology m promoting green transportation infrastructure	~			1000	12-20 MA	12000
Sood practice guidance for infrastructure development and design: Experiences from India	~		-	1000		Carlier I
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive miligation	~		1000			
Introduction to a SEA Plan. Hands-on Exercise		~				
Review Group exercise	Jan Sansa	~	12.25			1.201
Offsets for compensating residual impacts: Concept to practice	-	1				I State
Introduction to Group exercise for evaluating an offset acteme for linear developments in a threshold borderane.	A BUL	~				
- course as record po	-	Dr. Malvika Oni	al, Wil	The survey of the local division of the loca	-	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
The second s	5	4	3	2	Unssatushed	О
introduction to the course		~				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		~				129/12
Framework for manstreaming biodiversity in glassing and implementation of developments in transportation sector.		~				
	Mr.	Norris Dodd, Con	sultant, ADB			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not Applicable
	5	4	3	1	1	0
Prospects and challenges of greening transport Infrastructure in South Asia: An overview		V	-	1 1 1 1 1 1 1		
from Bangladesh		~	Part -	1 - A Carl	1223	
Implementation of wildlife mitigation measures: Governance challenges		~			1	
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		~				
Market and Anna Anna Anna Anna Anna Anna Anna	Mr. Francisco	Ricciardi, Enviro	nment Specialist	ADB	and the second s	V IRA
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Why, What and How to Protect Natural Capital In the Planning and Implementation of Transportation Projects		~	- A			
		Mr. Ajay Desai, Co	presultant.			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Incode of Column on Contrasts Functions	5	4	3	2	1	0
from India			~	1.	1.583	100.000
		Dr. Suresh Kum	iar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
10	5	4	3	2	1	Q
Developing context sensitive solutions for other linear infrastructure projects	V					





#### अगरतीय वन्यजीव संस्थान Wildlife Institute of India



FIELD TRIP + To review	the conservation ch	allenges associated	with the linear infras	structure projects (Ra	all and Road)	-
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
the second s	5	4	3	2	1	0
Dr. Biyast Panday	1000		V			
Dr. Asil Kumar Singh			~			
	No. of Concession, Name					
Methodology and Materials						
Use and quality of presentation materials		~				
Use and quality of handouts/reading materials		V		1		
Appropriateness of overall methods used		~		31.2		
	and the second second	Alter and				_
Logistics and Administrative Support						
Pre-program communications & confirmation	~				1	
Venue	~			West Party		
Support provided by organizers	~			312423		
					Almost Mat	0.0000000
Probability of Achieving R	esults	Completely	Completely	Partially	at All	Not at Al
Have the discussions prepared you suff adapting what you have learned to your environment?	iciently well for work	1.40	~			
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program give you the knowledge, skills and attitudes you need?				~		
Ouerall Broaran Oual	tv.	Excellent	Good	Average	Poor	Very Poo
overall Program Qual	4	LAGGINEIN	0000			
Overall assessment on the quality of the program	e learning	100000	~			100
Encouraging Darticination	Yes	No	1			

#### **PROGRAM EVALUATION**

program to others?

Will you recommend the learning

1. What do you think were the biggest strengths of the learning program? -> challenges faced to the natural ecosystem due to development of linear infrastructure like word, railways etc 2. What do you think were the biggest weaknesses of the learning program? -> A proper site visit with more defails should have been carried out.

भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areasitopics do you think could have been included to further improve the discussions and design to maximize learning? the perescriptic hundles in the implementing good -> practice Schall also be discussed 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) - the me g underpasses overpasses fincing to sto avoid the loss of wildlife New Skils (e.g. project formulation, processing, management, etc.,) Innovative ideas to protect the wildlife. ie project -> formulation. New Attitudes (e.g. flexibility, being more responsive, etc\_) - being more responsive towards the wildlife, to show more empeting 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this vear. 1. to construct underpass 2 to rectify the existing underforms 3. to sure empting twends wildlife. 6. Any other comments/remarks? if was nice experience. This should also be warried out at top management level planning level Thicks of the govt to succesfully inflement these initiables Thank you for your feedback

[4]



Chandan Komar

भारतीय वन्यजीव संस्थान Wildlife Institute of India



## COURSE EVALUATION

Program Title: Building cap and implementation of tran	acity for con sportation p	serving and rojects in S	managing outh Asia	natural capital	during the	planning
Date: 15th - 19th July 2019	Time:			Venue: WILDLIFE	INSTITUTE OF	INDIA
Department	NV	NHAI				
				- 22-	1	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the program/event		1		A Company		
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not
	5	4	3	2	1	0
Program Content					115	
Content of the learning program	~	17-2E	1500			
Relevance of the contant to your work	~		1			
Duration of the learning program		~	1.5.23		1	
Program Objectives			-			
Objectives were stated clearly		~				
Objectives support desired results		~	1-			
Learning outputs were clear and support objectives	1					
Objectives were achieved		/		Carlor and		
Speakers						
		Dr. Vinod Math	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Review of global development hends in road and rail sectors and challenges for biodiversity conservation	~					
Planning road development in high value conservation forests: New insionts	5	EE		Section 2.	i temp	18 20
Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	1	700			1	
Case examples of offsets	/				020	
Introduction to Group exercise for evaluating an iffset scheme for linear developments in a forested landscape	1					
Shri Pravee	n Pardeshi, IAS, Con	nmissioner, Briha	nmumbal Munici	pal Corporation, Mumb	ai	
ELES DI MALEST	Very Setisfied	Satisfied	Neutral -	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0





		Dr. Asha Rajva	nshi, WI			
The second s	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The televance of mainstreamon hindawards in	5	4	3	2	1	0
planning and implementation of development projects		1		1		
Nature orginopring principles and elements of smart green infrastructure		-				1
Relevance of transportation according in promoting green transportation infrastructure		/		I THE ST	I BIERE	
Good practice guidance for infrastructure development and design. Experiences from India	1.5 mill	/				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitgation		-	122	I Statistics		
Introduction to a SEA Plan: Hands-on Exercise	10.0			1		1200
Roview Group exercise		1	1232			12184
Offsets for compensating residual impacts. Concept to practice		1				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forestabl landscare.		1				1
		Dr. Malvika On	al, WII			Con Procession
States of the second se	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Dissatisfied	Applicable
Introduction to the course	7 142		1			
Conservation and Management of Natural Capital for achieving Sustainable Development Goals			1	11-34		
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector			1			
	Mr.	Norris Dodd, Con	sultant, ADB			The second s
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Prospects and challenges of greening transport infrastructure in South Asia: An overview Imports of Railways on Elephants: Experience			1			
from Bangladesh Implementation of wildlife mitigation measures:			~			
Governance statlenges				1000		
and rail sectors: Lessons learnt from road projects in North America and other countries			1		HI CARE	
turk	Mr. Francisco	Ricciardi, Enviro	nment Specialist,	ADB		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	D
Why, What and How to Protect Natural Capital in the Plenning and Implementation of Transportation Projects	1000		~	3740		E
		Mr. Ajay Desai, C	onsultant	7	111 - 2010 - 14	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Inpacts of Railways on Elephants - Experience	6	1	3	2	1	0
		Dr. Suresh Kun	sar, Wil		And the second	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
* 1411 K. H. H.	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		/		-		







A REAL PROPERTY AND A REAL PROPERTY.	Han Cataliad	Cameliad	Neutral	Dissatisfied	Very	Not
	Very satisfied	Sausheu	2	2	Dissztisted	Applicable
Ir Rivach Panday	5	-				
r. Anli Kumar Singh	1 20 20	/			1	12.5
Den all manage			and the second s	Contract of the		
Methodology and Materials						
Jse and quality of presentation naterials		-				
Use and quality of handouts/reading materials		1				
Appropriateness of overall methods used		1				
Logistics and Administrative Suppor	t	States States	10-13 S L	E GALLE		11
Pre-program communications & confirmation	1	1.1.28				
Venue	1					
Support provided by organizers	1					
	11-12-12-12-12-12-12-12-12-12-12-12-12-1				10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at A
Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?		/				12218
		1	Almost		Almost Not	
Learning Evaluation	1	Completely	Completely	Partially	at All	Not at A
To what extent did the learning program knowledge, skills and attitudes you nee	n give you the d?	/				
Quantil Brown Qua		Excellent	Good	Average	Poor	Very Poo
Overall Program Coal	a losening	Laconora	0000	THE PARTY OF		
overall assessment on the quality of the program	ensaming	~		121814		
			-			
Encouraging Participation	Yes	No				
Will you recommend the learning program to others?	/	1		JE SI		

management " very good.

2. What do you think were the biggest weaknesses of the learning program?

91's too much short Programme

[3]





3. What other areasitopics do you think could have been included to further improve the discussions and design to maximize learning?



4. What new knowledge, skills and attitudes have you gained from the learning program?

Findly out the trace enumeration

New Knowledge (on the different focus areas of the learning program)

New Skills (e.g. project formulation, processing, management, etc.,)

Protect Farmelation

New Attitudes (e.g. flexibility, being more responsive, etc.,)

Floribility

5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace?

List at most 3 action items you intend to pursue this year.

(1) our Enogent Angel to S.R.P we will utilize there transp Enogene in well morner (1) on economic consider Raiper to visalchapetonemit Cons through wild like Conting Soid will utilize this through Wild like Conting Soid will utilize this other comments/remarks? 6. Any other comments/remarks? management is very good. Thank you for your feedback.







## COURSE EVALUATION

Date: 15th - 19th July 2019	Time: 21K	INSTITUTE OF INDIA				
	a v	0 1111		1	and a state of the second s	CONCERNING OF THE OWNER
Department	Depart	ment of	Road	s, Nepal	2	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the program/event		5				
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
A STATE OF STATE	5	4	3	2	1	0
Program Content						
Content of the learning program		V	22.6			
Relevance of the contant to your work		V				
Duration of the learning program		V	102250			3
Program Objectives					and the second second	No II
Objectives were stated clearly		V.	1.1			
Objectives support desired results		V				
Learning outputs were clear and support objectives		V				
Objectives were achieved			V			-
Speakers						
		Dr. Vined Math	ur, Wil			
STRUCTURE STRUCT	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissetisfied	Not Applicable
	5	4	3	2	1	0
Review of global development trands in road and rail sectors and challenges for biodiversity conservation	V					
Planning road development in high value conservation forests: New insights	~	12 5 5 1				
Promoting Eco friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	V					
Case examples of offsets	7	V				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		V				
Shri Praveen	Pardeshi, IAS, Con	imissioner, Briha	umumbai Munic	ipal Corporation, Mumb	sai	
ARTER	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
		the second s	2	2	and the second se	0





		Dr. Asha Rajvan	shi, WI			
	Very Satisfied	Satisfied	Neutral	Dissetisfied	Very Diseatisfied	Not Applicable
The share the state of the state of the	5	4	3	2	and and	0
planning and implementation of development projects	V					
Nature orgineering principles and elements of smart green infractructure	V					
Relevance of transportation ecology in promoting green transportation infrastructure	5	NO PROTECT				
development and design: Experiences from india	AL COLOR	~		13.84.14	1	6
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	5	THERE	1. 224			
Introduction to a SEA Plan Hairds-on Exercise		V	123			151 2
Review Group exercise		V		1	105063	1000
Offsets for compensating residual impacts: Concept to practice	V	24-12	REL			
Introduction to Group exercise for evaluating an offset scheme for linear developments in a human burdeness.		V	IN REAL			
unission and scape	and the second second	Dr. Maivika Onla	L Will			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Dissatisfied	Applicable
Introduction to the course		V				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		V		Sec. 4		
Framework for mainstreaming biodiversity in alarning and implementation of developments in transporticition sector.					3	1
	Mr.	Norris Dodd, Cons	ultant, ADB			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Prospects and challenges of gmening transport infrastructure in South Asia: An overview			V			
Impacts of Railways on Elephants: Experience from Bangladesh		V			12022	
Implementation of wildlife mitigation measures: Governance chalkinges		V				
and rail sectors: Lessons learnt from road projects in North America and other countries	1000	-	V			
A SUL	Mr. Francisco	Ricciardi, Environ	ment Specialist,	ADB	0.000	10 march 10
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Why. What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects			V			
		Mr. Ajay Desai, Co	neultant	1		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5	4	3	2	1	0
		Dr. Suresh Kum	ar, Wil	-		1
Contraction of the second	Very Religion	Satisfied	Knudeal	Discotisfied	Very	Not
	E S	ousieu	ne de di	nasansian	Dissatisfied	Applicable
Developing context sensitive solutions for other Inear infrastructure projects		i				







FIELD TRIP - To review	w the conservation ch	allerges associated	with the linear infras	tructure projects (Ra	il and Road)	
Martin Contraction	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disastisfied	Not Applicable
and the second se	5	4	3	2	1	0
Dr. Bivash Pandav	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- N	V			
Dr. Anii Kumar Singh	1		VI	Conception in the	1	
Methodology and Materials						
Use and quality of presentation materials		~				
Use and quality of handouts/reading materials		V				
Appropriateness of overall methods used		~		11.		
Logistics and Administrative Support			and the second second	1-17-21	-	
Pre-program communications & confirmation	1.3.00%	V	2001	And Sale		
Venue		V				
Support provided by organizers		~			I HISPA	
B 4 100 1111		Camplatala	Aimost	Partially	Almost Not	Not at All
Probability of Achieving P	esuits	Completely	Completely	Faronity	at All	HOL OL PAR
Have the discussions prepared you suf adapting what you have learned to you environment?	ficiently well for r work		V			
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program knowledge, skills and attitudes you nee	n give you the d?			V		
	-	Fuerliest	Cond	Augenes	Poor	Very Poor
Overall Program Qual	ity	Excedent	Good	WAGIGRE	FOUI	reiyrool
Overall assessment on the quality of th program	elearning	V				
Encouraging Participation	Yes	No	]			
Will you recommend the learning program to others?	V			1.12		

#### PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? 2. What do you think were the biggest weaknesses of the learning program? I presentation copy of the end of the program.

SED WARDING भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize Some field waits to exposence success 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the 9 have very Jew Knowledge. learning program) on wildle conservation. It got the oppositurity to enhance New Skills (e.g. project formulation, processing, management, etc.,) After attending this program i am aste to know the inportance. and will give emphasis during projectformulation New Attrudes (e.g. flexibility, being more responsive, This program for me know etc.) more soul wildlife, conservation & the way of conservation. 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this - Though i am not only responsible person, but I will try to give emphasis on wildlife conservation. 6. Any other comments/remarks? an very much satisfied from the COURSE. Thank you for your feedback.



## भारतीय वन्यजीव संस्थान Wildlife Institute of India



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## COURSE EVALUATION

and implementation of tran	sportation p	rojects in S	outh Asia			
Date: 15th - 19th July 2019	Time: 2.00	> pw.	Venue: WILDLIF	E INSTITUTE OF	INDIA	
Department	Colombo	/sub-us	ban Rail	way Projac	t -	
Years of work in the subject matter of the program/event	less than 1 year	1-3 years	4-10 years	> 10 years	]	
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	4	0
Program Content						
Content of the learning program	1		1	a since and the		1
Relevance of the content to your work		1		12000		and the second
Duration of the learning program		1				1
Program Objectives				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Objectives were stated clearly	1					
Objectives while states obtainy	~	1				
Learning outputs were clear and		×				
support objectives		~			-	
Objectives were achieved	$\checkmark$		1.3.15			
Speakers						
		Dr. Visod Math	ur, WI			
Was and a set	Very Satisfied	Satisfied	Neutral	Dissetisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Review of global development brends in road and rait sectors and chattenges for blodwersity conservation	~					1
Planning road development in high value conservation forests: New insights	$\checkmark$				1	1
Promoting Eco-friendly measures to miligate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation	1					
Case examples of offsets	1					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	1			N. M. H		
Shri Praveer	Pardeshi, IAS, Com	missioner, Brihan	mumbai Munic	ipal Corporation, Mum	bai	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	and the second sec	and the second second	-	-		6





		Dr. Asha Rajvani	shi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The relevance of mainstructure biodiseasts in	•	4	3	2	1	0
planning and implementation of development projects	~					
Nature engineering principles and elements of smart green infrastructure		1				S.C. 27
Relevance of transportation acology in promoting green transportation infrastructure	1					
Good practice guidance for infrastructure development and design: Experiences from India	/	12 n.e.				-
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	V .	1000				-2-11
Introduction to a SEA Plan: Hands-on Exercise	1					
Review Group exercise	1					
Offsets for compensating residual impacts Concept to practice		~	- 82 -			12101
Introduction to Group exercise for evaluating an offset scheme for linear developments in a		1			1	364
Toreswid landscape	Contraction of the	Or. Malvika Onia	I. WII	and the second second	And in case of the local division of the loc	
	Vary Satisfied	Cationiand	Mandral	Derstellas	Very	Not
	tery dataset	A	3	2	Dissatisfied	Applicable
Introduction to the course			-		1	
Conservation and Management of Natural Capital for achieving Sustainable Development Gradis		/		-		
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector.	/			222.53	1	
	Mr.	Norris Dodd, Cons	sultant, ADB			State of State
Contract Contractor	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	1	2	1	0
Prospects and challenges of greening transport Intrastructure in South Asia: An overview	1			233 B		
Inpacts of Relways on Elephants: Experience from Bangladesh	$\checkmark$	LUS-	1200			-
Implementation of wildlife mitigation measures: Governance challenges	Le Pade	V				
and rall sectors. Lessons learnt from road projects in North America and other countries	~				1	-
	Mr. Francisco	Ricciardi, Enviror	ment Specialist,	ADB	11 111	1 - 1 - 1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
	5	4	3	2	1	0
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		~			-	
		Mr. Ajay Desai, Co	nsultant	- Andrew State		11 - AU-112
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5	4	3	2	1	9
	The second	Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Production and advantage of the second second	5	4	3	2	1	0
Investign of the sensitive solutions for other linear infrastructure projects		~				







	Very Satisfied	Satisfied	Neutral	Dissatisfied	Discatisfied	Applicable
	8	4	3	2	1	0
Dr. Bivash Pandav						
Dr. Anii Kumar Singh	1100	N				
Methodology and Materials	1.232					
Use and quality of presentation materials		1				
Use and quality of handouts/reading materials	1		-			
Appropriateness of overall methods used		$\checkmark$				
Logistics and Administrative Support	States of the local division of the local di				1.1	-
Pre-program.communications & confirmation		1		and the second		
Venue	12-5-1	1				
Support provided by organizers		1				-
			Almost	Co. Saltar	Almost Not	1000000000
Probability of Achieving Ro	sults	Completely	Completely	Partially	at All	Not at Al
Have the discussions prepared you suffi adapting what you have learned to your environment?	Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?		1			
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
To what extent did the learning program knowledge, skills and atttudes you need	give you the	1		-		
Overall Program Qualit	y	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of the learning program		1				
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	5		1			
PROGRAM EVALUATION						

- Campus on nivonment

- Director (WII). Alt Asha Rejavinch

2. What do you think were the biggest weaknesses of the learning program?

Food quality gradually decreased.

भारतीय वन्यजीव संस्थान Wildlife Institute of India What other areas/topics do you think could have been included to further improve the discussions and design to maximize Impact of tribal gracesps & their relocation learning? it is a not avaidable. 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) Strategically Environment Assessment. New Skills (e.g. project formulation, processing, management, etc.,) EIA preparation. New Attitudes (e.g. flexibility, being more responsive, etc.,) yes more flexibility. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this year. - Environmental Surpart associatent. - Elephant Rail accidence - to avoid measures. shout term and long term. 6. Any other comments/remarks? Dr. Maying Mathurs Lectores are interesting to hear and nevy clase for those who came in other swijects roo. Thank you for your feedback. P.K.

[4]







## COURSE EVALUATION

and implementation of tran	sportation p	rojects in S	outh Asia		10.05	
Date: 15th - 19th July 2019	Time: 🕱			Venue: WILDLIF	E INSTITUTE OF	INDIA
	-					
Department	Roads	and t	tighway	s Departm	ent	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
or the programme ent						
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
	5	4	3	2	1	0
Program Content					-	
Content of the learning program	"	V		I III		
Relevance of the content to your work	1.000		V	1		
Duration of the learning program		V		100 E		
Program Objectives	a second and					
Objectives were stated clearly	V	BLEE				
Objectives support desired results	~					
Learning outputs were clear and support objectives		~			1.9059	
Objectives were achieved	-					
Speakers						
		Dr. Vinod Math	wr, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatiafied	Not Applicable
	5	4	3	2		0
Review of global development trends in road and rad sectors and challinges for blodiversity conservation	~					
Planning road development in high value conservation forests. New insights	1	-		3742.5		1
Promoting Eco-friendly measures to milligate impacts of linear infrastructure developments on widdlife: From best practice prescriptions to implementation	~	-				
Case examples of clisels	-					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	/					
Shri Praveer	Pardeshi, IAS, Con	missionar, Briha	nmumbai Munici	pal Corporation, Mum	bai	1
12 20 22 20	Yery Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Applicable
	5	4	3	2	1	0
Keynote address	-		1			





and the second		Dr. Ashe Rajven	shi, Wil		CHE-FR	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Distatisfied	Not
	5	4	3	2	1	0
The relevance of mainstreaming biodiversity in plenning and implementation of development, projects	~		1			
Nature engineering principles and elements of smart green infrastructure	1					
Relevance of transportation ecology in promoting green transportation infrastructure		-				
Good practice guidance for infrastructure development and design: Experiences from India		-	Starter.			
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	-		12 12			
Introduction to a SEA Plan: Hands-on Exercise		-	1-16-	A CONTRACT		
Review Group exercise	~	New Perlo				N ZE
Offsets for compensating residual impacts Concept to practice		~		12/2-2-		
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscare	~				-	1000
To cate a strategy	A COLUMN TWO IS NOT	Dr. Malvika Oni	al, WII	The rest of the local division in which the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the local division in the local division is not the local division in the local divisi		and the second second
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5		3	2	Ussaushed 1	Applicable 0
Introduction to the course	r					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		<			125.16-3	
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector.		~	PERCE		No. of Concession, Name	
THE WORK AND A DECIMAL OF A DEC	Nr.	Norris Dodd, Cons	sultant, ADB	-	and the second division of the second divisio	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	unassosned 1	Applicable
Prospects and challenges of greening transport infrastructure in South Asia: An overview		-				
Impacts of Railways on Elephants: Experience from Bangladesh	-					
Repartmentation of wildine mitglation measures: Governance challenges		-				
Developing context sensitive solutions for road and rail sectors. Lessons learnt from road projects in North America and other countries	~				1000	
	Mr. Francisco	Ricciardi, Environ	ment Specialist,	ADB		the state
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1 1	0
Wity, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects						
	-	Mr. Ajay Desal, Co	nsultant			14. 
NESSER DE CORRECTO	Very Satisfied	Satisfied	Noutrail	Dissetisfied	Very Dissatisfied	Not Applicable
Intracts of Balways on Elephants -Experience	5	4	3	2	4	0
form India	~	TOTAL COLOR	1000		1000	14571072
		Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	Utseatened 1	O
Developing context sensitive solutions for other Inear infrastructure projects			E SALLAR			



## भारतीय वन्यजीव संस्थान Wildlife Institute of India



	Man Ontrelad	Catterna	Norderal	Disestisfied	Very	Not
And the state of the second se	very sacaned	Jaussed	messer	0	Dissatisfied	Appicable
Y Rivach Parview	•	· ·				
Dr. Anii Kumar Singh	12000	V	States of the			
Methodology and Materials				and the second second		in
Use and quality of presentation materials	18 70 H	V				
Use and quality of handouts/reading materials						-
Appropriateness of overall methods used				-		
Logistics and Administrative Suppo	rt	Constanting of the local division of the loc	A DECKSTON OF	-		
Pre-program communications & confirmation	~					
Venue		Terrer .				
Support provided by organizers	/	1000-0				
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you su adapting what you have learned to you environment?	fficiently well for r work	pines.				1-2
			Almost		Almost Not	
Learning Evaluation	n	Completely	Completely	Partially	at All	Not at Al
To what extent did the learning progra knowledge, skills and attitudes you ne	m give you the ed?	-	~			
Overall Program Qua	lity	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of the learning program			~	III S		
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	/			1	1	
PROGRAM EVALUATION						
	New Street of	an were not				
4. Million and a second distribution on the bimme.	et etmonsthe of the	learning progra	m7			

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weakness.

2. What do you think were the biggest weaknesses of the learning program? The food facilities for the peogram were the biggest





भारतीय वन्यजीव संस्थान Wildlife Institute of India



	COUI	RSE EV	ALUAT	ION	1 7.	I chai
		ander and	managing	9.07	Ish Du	
Program Title: Building cap and implementation of tran	sportation p	rojects in S	outh Asia	latural capital	caring the	
Date: 15th - 19th July 2019	Time: 9.30	An do S	5.0 PM	Venue: WILDLIFE	INSTITUTE OF	INDIA
						associate a second
Department	Public	works D	ebtt Ra:	rasthan.	JAIPUS	2
					- Adding a strain and a strain	
Years of work in the subject matter	less than 1 year	1 - 3 years	4-10 years	> 10 years		
of the program/event			V			
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Content					-	
Content of the learning program			1 3 3	-	1	
Relevance of the content to your work		V				
Duration of the learning program				- 200		
Program Objectives	-				-	_
Objectives were stated clearly	V					
Objectives support desired results	V	No.				
Learning outputs were clear and support objectives	V		Pare I			
Objectives were achieved		~	1.5.2.0		-	
Speakers				1.1	Renkin i	
		Dr. Vinod Math	war, Wil			
STREET, LEASING AND	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Review of global development trands in road and rail sectors and challenges for biodiversity conservation	~					
Panning road development in high value conservation forests: New insights	~	. 83	1.200	13 L Carlos		
Promoting Eco-fillendly measures to mitigate inpacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	V					
Case examples of offsets	~		141_10S-3			
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	~					
Shri Pravee	n Pardeshi, IAS, Con	nmissioner, Briha	anmumbai Municip	oal Corporation, Mum	bai	
	Very Satisfied	Satisfied	Neutral	Oissatisfied	Very Dissatisfied	Not Applicable
	5 /	4	3	2	1	0
Keynote address	V	The second second		17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		





		Dr. Asha Rajvan	rshi, WII			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The relevance of mainstreaming biodiversity in planning and implementation of development arrivers		· ·	3	2	1	0
Nature engineering principles and elements of smart green infrastructure		V				
Relevance of transportation ecology in promoting green transportation infrastructure	V.		- Since		1 2 3 3 4	1233
Good practice guidance for infractiviture development and design: Experiences from India	~	3		and a		
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive miligation						-
Introduction to a SEA Plan: Hands-on Exercise	V					
Review Gloup exercise	V		H-CERT	-	136.75	
Offsets for compensating residual impacts: Concept to practice	~		1914			
Introduction to Group exercise for evaluating an offset actiente for linear developments in a forested landscape	~			E south		
	10	Dr. Malvika Onl	ai, Wil	1	1	Contraction of the
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	$\sim$		1	1		in the second
Conservation and Management of Natural Capital for actieving Sustainable Development Goals		V	P. S.			
Franceon for mainsbeaming biodiversity in planning and implementation of developments in transportation sector.	$\checkmark$					
	Mr.	Norris Dodd, Cons	suitant, ADB			_
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	2	2	1	()
Prospects and chateringes of greening transport infrastructure in South Asta: An overview	$\checkmark$			Contraction of the second		
trom Bangledesh		~				
mplementation of wildlife mitigation measures. Governance challenges		$\checkmark$	-			
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	~				E- C	123367
	Mr. Francisco	Ricciardi, Environ	ment Specialist,	ADB		3
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transmotection Desired.	5	1	3	2	1	0
Transfordation Projects		Mr. Alay Deepl. Co	neultant	16	10-10-10-10-10-10-10-10-10-10-10-10-10-1	
	Man Patietted	Patielland	Contract of the	-	Verv	Not
	very saustied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
Impacts of Railways on Elephants -Expension from India	-	1		*	1	0
A CONTRACTOR		Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	1	1	0
Devecting context sensitive solutions for other linear infrastructure projects	V					



# भारतीय वन्यजीव संस्थान Wildlife Institute of India



and the second se			Mounterel	Dissofician	Very	Not
	Very Satisfied	Satisted	Neutral	Lissatarioo	Dissatisfied	Applicable
No. and the	5	1 (A)	3	2	1	
Bivash Pandav		1		Contract of the		
. Anii Kumar Singn		V			1200-	
ethodology and Materials			and the second			
se and quality of presentation aterials	~	-				
se and quality of handouts/reading laterials	~			11.40		1
ppropriateness of overall methods sed					1	
ogistics and Administrative Suppo	rt					
re-program communications & onfirmation	V					
enue		10 22 4				
upport provided by organizers	V			11.22		
Probability of Achieving Results		Completely	Almost	Partially	Almost Not at All	Not at All
Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?		1	compressi			
Learning Evaluatio	n	Completely	Aimost Completely	Partially	Almost Not at All	Not at All
o what extent did the learning progra nowledge, skills and attitudes you ne	m give you the ed?	$\checkmark$				
Overall Program Qur	lity	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		$\checkmark$				
Encouraging Participation	Yes	No	1			
Vill you recommend the learning program to others?			Sugar 1			4.5
PROGRAM EVALUATION						

their assisment and Mitigo

2. What do you think were the biggest weaknesses of the learning program?

one night story in Pask area to understand well.

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(DTHANGO) भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areasitopics do you think could have been included to further improve the discussions and design to maximize learning? Co-relating frame work with current codel 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) New Skills (e.g. project formulation, processing, management, etc.,) Porcessig New Attitudes (e.g. flexibility, being more responsive, etc..) More responsive 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? workplace? List at most 3 action items you intend to pursue this year. I. To identify EIA at beaubility/OPR Stayf. 2. well debine in Implimentation Stayf. Ints/remarks? Bogsamme was excellant. Thank to All who were the past of 6. Any other comments/remarks? Profeam. Thank you for your feedback.



Keynote address

## अभारतीय वन्यजीव संस्थान Wildlife Institute of India



## COURSE EVALUATION

Program Title: Building capacity for conserving and managing natural capital during the planning and implementation of transportation projects in South Asia Venue: WILDLIFE INSTITUTE OF INDIA Time: Date: 15th - 19th July 2019 Department Department Roads less than 1 Years of work in the subject matter 1-3 years 4-10 years > 10 years year of the program/event SATISFACTION EVALUATION Very Not Dissatisfied Neutral Very Satisfied Satisfied Program Area Dissatisfied Applicable 0 3 2 1 5 4 **Program Content** Content of the learning program Relevance of the content to your work Duration of the learning program **Program Objectives** Objectives were stated clearly Objectives support desired results Learning outputs were clear and support objectives Objectives were achieved Speakers **Dr. Vinod Mathur, WII** Very Not Dissatisfied Very Satisfied Satisfied Neutral Dissatisfied Applicable 4 2 0 5 3 Review of global development trends in road and rail sectors and challenges for biodiversity conservation Planning road development in high value conservation forests: New insights Promoting Ecc-triendly measures to mitigate impacts of linear intrastructure developments on widtle: From best practice prescriptions to implementation Case examples of offsets introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape Shri Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai Very Not Dissatisfied Neutral Very Satisfied Satisfied Dissatisfied Applicable 0 4 5 3





		Dr. Asha Rajvan	shi, Wil		-	Tero at
	Very Satisfied	Satisfied	Neutral	Dissetisfied	Very	Not
and the second second second	5	4	3	2	1	0
The relevance of mainstreaming biodiversity in planning and implementation of development projects	~			12236		
Nature engineering principles and elements of smart green infrastructure		V	R L	Sec.		
Relevance of transportation ecology in promoting green transportation infrastructure	12.2-703	~	La marca	New State		
Good practice guilance for infrastructure development and design: Experiences from India	En get	V				B
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		>				
Introduction to a SEA Plan: Hands-on Exercise		~				12.20
Review Group exercise		V				B. 2.
Offsets for compensating residual impacts: Concept to practice		era	~			
offset scheme for linear developments in a		V				123
SARCHER BEINGLADE		Dr. Malvika Oni	at Wil	-		-
A CONTRACTOR OF THE OWNER	Very Satisfied	Satisfied	Maintral	Disectional	Very	Not
	5	- Jeriningu	3	3	Dissatisfied	Applicable
Introduction to the course	-	-	-	*	-	ų.
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	-	-			1	
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector			V			
	Mr.	Norris Dodd, Con	sultant, ADB			
	Very Satisfied	Satisfied	Neutral	Dissatistied	Very	Not
	5	4	3	2	1	0
Prospects and challenges of greening transport intestructure in South Asia: An overview		~	1		12 11 23	
from Banglatesh						
Implementation of wildlife mitigation measures: Governance challenges		V	-			
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		V				
1000	Mr. Francisco	Ricciardi, Enviro	nment Specialist,	ADB		Name and Address
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Miles Miles and Lines to Proto of Mathematication	5	4	3	2	1	0
the Planning and Implementation of Transportation Projects		V			1-1-2-2	128
		Mr. Ajay Desai, Ca	onsultant	- Partie	AND ANY	in the
	Very Satisfied	Satisfied	Keutral	Dissatisfied	Dissatisfied	Applicable
Impacts of Railways on Elephants -Experience	•	i		4		
		Dr. Suresh Kum	iar, Wil			1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not Applicable
the second second second second	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	~					





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States and the second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Dr. Blvash Pandav	19		1		-	
Dr. Anil Kumar Singh	1					
Methodology and Materials				2.1200		
Use and quality of presentation materials		V.		1		
Use and quality of handouts/reading materials		$\checkmark$		150 Bal		1-4
Appropriateness of overall methods used					In a	
onistics and Administrativa Suppor					-	
Pre-program communications & confirmation		~		all second		
Venue	100	~	128.4			-
Support provided by organizers		V			100000	
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?						
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
To what extent did the learning program knowledge, skills and attitudes you nee	n give you the d?	1 Page	~	IL IN		
Overall Program Qual	ity	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of th program	e learning		$\checkmark$			
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?			. La supra		-	
PROGRAM EVALUATION						
4 Milliont die were think were the himse	el atranathe of the	learning progra	m2		1	
Revenue of Device	h suengene or the	To slow	PANDINION	ced .		

2. What do you think were the biggest weaknesses of the learning program?

भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning? More practicle (brainstonning) Sossium. Field visits 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the learning program) Impacts on wild life by groads. How to mainstream Conservation is not for other , it is for human itself. New Skills (e.g. project formulation, processing, management, etc.,) need of protection of Matural Capital. -SEA -New Attitudes (e.g. flexibility, being more responsive, etc.,) Development with conservation 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this year. Frishere Eveny IEE/EIA team has & biologist ealegist or relevant pernon. - Advacate for the conservation in each read project - Disseminate my knowledge to the DOR team. 6. Any other commentalremarks? Acknowledgement to the WII & ADB Team Thank you for your feedback.

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Dee





COURSE EVALUATION Kh. Khabilonglehup.

Program Title: Building and implementation of	capacity for transportat	r conserving and n ion projects in So	nanaging natural capital during the planning uth Asia
Date: 15th - 19th July 2019	Time:	1400	Venue: WILDLIFE INSTITUTE OF INDIA

			SILLIPERCON	
Years of work in the subject matter	less than 1 year	1-3 years	4-10 years	> 10 years
of the program/event	1000	V	-TH	

#### SATISFACTION EVALUATION

Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Program Contant						
Content of the learning program		~				
Relevance of the content to your work	~					
Duration of the learning program		~	-			
Program Objectives					and the second second	
Objectives were stated clearly	V					
Objectives support desired results	~		1			
Learning outputs were clear and support objectives	~					
Objectives were achieved	~				a set a set	and the second
Speakers					line in the second	
Contraction of the local		Dr. Vinod Math	ur, Wil			
PARTIES, OR THE PROPERTY	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissetisted	Not Applicable
	5	4	3	2	1	0
Review of global development trends in road and rall sectors and challenges for blodiversity conservation	~					
Planning road development in high value conservation forests: New insights	~		1 Detay			
Promoting Eco-friendly measures to miligate impacts of linear infrastructure developments on wild Re. From best practice prescriptions to implementation	~					
Case examples of offsets	~	STERK!				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a foracted landscape	V					82

line in the	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	- Service	~			E Ball	





Calification and the second second		Dr. Asha Rajvan	ishi, Wil		Constanting	-
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not
The second second second second	5	4	3	.2	1	0
Planning and implementation of development projects		~				
Nature orgineering principles and elements of small green infrastructure	~	1.1			123,23	
Relevance of transportation esclogy in promoting groon transportation infrastructure		V	12. 33			
Bood practice guidance for infrastructure revelopment and design: Experiences from India	~		Cate 3			
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		1			and the	1000
Introduction to a SEA Plan: Hands-on Exercise	V.			1000		
Review Group exercise	-		1	The second second	1	1 555
Offsets for compensating residual impacts: Concept to practice	V			CHARTER B		
introduction to Group exercise for evaluating an offset scheme for linear developments in a freested leads are	V	-				10524
Annale and Annale	-	Dr. Melvika Oni	al Wil		a loss of the loss of the	
North of the second	Very Satisfied	Satisfied	Rentral	Decalledied	Very	Not
	5	A	3	Desalizied	Dissatisfied	Applicable
Introduction to the course		i		*	-	
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	~	1-16 20	T. DIFFORM	No.		1000
Framework for mainstreaming bodivisity in planning and implementation of developments in transportation sector.		~	12.20			
	Mr.	Norris Dodd, Cors	sultant ADB		1	-
	Very Satisfied	Satisfied	Neutral	Dissetiafied	Very	Not
	5	4	3	2	Dissatisfied	Applicable
Prospects and challenges of greening transport infrastructure in South Asia: An overview	~					
form Bangladesh	·V	-				
Covemance challenges		V			12-301	
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	~	125		A REAL		1999
	Mr. Francisco	Ricclardi, Environ	ment Specialist,	ADB	Many and Million	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
an 10	5	4	3	2	Lissatished	Applicable
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects.		~				
The second s		Mr. Ajay Desai, Co	nsultant		10	
	Very Satisfied	Satisfied	Noutral	Dissatisfied	Very Dissatisfied	Not: Applicable
Impacts of Railways on Elephants - Experience from India	5	1	3	2	1	0
		Dr. Suresh Kum	ar, Wil			1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Country of the contract of the	5	4	3	2	a la company	0



## अभारतीय वन्यजीव संस्थान Wildlife Institute of India



FIELD TRIP - To reve	w the conservation ch	allenges associated	with the linear infras	tructure projects (Ra	all and Road)	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	-	V	1.188		-	
Dr. Anii Kumar Singh					100000000000000000000000000000000000000	
the state of the second se	Contract of the					
Methodology and Materials						
Use and quality of presentation materials	~			19-12-19-19-19-19-19-19-19-19-19-19-19-19-19-		
Use and quality of handouts/reading materials	V					
Appropriateness of overall methods used	~			6 6 6		
Logistics and Administrative Suppo	rt					-
Pre-program communications & confirmation	~	PIE-S		s allages i	12.03	
Venue	V		11 55			
Support provided by organizers	V	12-12				
Probability of Achieving	Results	Completely	Almost Completely	Partially	Almost Not at All	Not at All
Have the discussions prepared you su adapting what you have learned to you environment?	fficiently well for ar work	~			- ANA	
		-			Alterna Met	
Learning Evaluatio	n	Completely	Almost Completely	Partially	at All	Not at All
To what extent did the learning progra knowledge, skills and attitudes you nee	m give you the ed?	V				
Overall Program Quality		Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of th program	he learning	V				
Frankling Backlahaming	Ves	No	1			
Encouraging Participation	Tes	NO -				
program to others?	1			-	1-11	

#### PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? Bridging knowledge gap; and understand of insues and approach to analypse for planning and design. 2. What do you think were the biggest weaknesses of the learning program? There weren't any kiggest weakness. However, the content on derigning of miligation measures, it's specificat addition would had have more darily.

भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas topics do you think could have been included to further improve the discussions and design to maximize learning? group exercise could have been more discussion. The 4. What new knowledge, skills and attitudes have you gained from the learning program? Terminology used and principles New Knowledge (on the different focus areas of the learning program) for to in biodrochy. Critéria for monitoring & evalue T. Integral and of Riddivernity New Skils (e.g. project formulation, processing, management, etc.,) in planning and design. Mare responsive in New Atitudes (e.g. flexibility, being more responsive, stc.) planning and denge 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this planning & Bergn. J repritoring year. 6. Any other comments/remarks? Thank you for your feedback.






## COURSE EVALUATION

Program Title: Building cap and implementation of tran	acity for com sportation p	serving and rojects in S	managing	natural capita	l during the	planning
Date: 15th - 19th July 2019	Time: 02	:05 pm		Venue: WILDLIF	E INSTITUTE OF	INDIA
	1	17 1		1.1		
Department	NBCC	Und	a) (	10.	-	-
Years of work in the subject matter	less than 1	12				
of the program/event	year	1 - 3 years	4-10 years	> 10 years		
er me programeren.			E Press	1		
SATISFACTION EVALUATION			_		-	
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
Children and a state of the second	5	4	3	2	- 1	0
Program Content			17 <sup>-1</sup> -1	-		
Content of the learning program	~	-				
Relevance of the content to your work		v				
Duration of the learning program	V			Non-		
Program Objectives						
Objectives were stated clearly	~					
Objectives support desired results	~	1.20				- 20
Learning outputs were clear and support objectives		v	1			
Objectives were achieved		~				
Speakers						
		Dr. Vinod Math	ur, Wil			
	Very Satisfied	Setisfied	Neutral	Distatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	D
Review of global development tiends in rolid and rail sectors and challenges for blockversity conservation	1					
Planning road development in high value conservation forests: New insights	1					
Promoting Eco-friendly measures to mitigate impacts of linear initiastructure developments on wildlife. From best practice prescriptions to implementation	1		11.25			
Case examples of offsets	V					-
Introduction to Group exercise for evaluating as offset scheme for linear developments in a forested landscape	1			120		
Shri Praveen	Pardeshi, IAS, Com	missioner, Briha	nmumbal Munic	ipal Corporation, Mum	bal	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynole address						~





the state of the s		Dr. Asha Rajvan	shi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Diseatisfied	Not AppEcable
The set of a state of a	5	4	3	2	1	0
planning and implementation of development projects	V					00121
Nature orgineering principles and elements of smart green intractructure	~		No. HUR			
Relevance of transportation ecology in promoting green transportation infrastructure	V					
Good practice guidance for infrastructure development and design: Experiences from India	~					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	~	18 19 1		Dia Varia		Sec. 1
Introduction to a SEA Plan: Hands-on Evergse	/	1 4 4			~	-
Review Group exercise		~	12313		200	
Offsets for compensating residual impacts: Concept to practice				THE REAL PROPERTY.		v
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		12				¥
		Dr. Malvika Oni	al, WII			
	Very Satisfied	Satafied	Neutral	Dissatisfied	Very	Not
and the second se	5	4	3	2	1	D
Introduction to the course	Come of		A COLORADO			-
Conservation and Management of Natural Capital for achieving Sustainable Development Goals				S. Mark		~
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector.						~
sanger bron seens	Nr.	Norris Dodd, Con	sultant, ADB	Statement of the local division of the local	1	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	3	4	3	2	Diseacened	Applicable
Prospects and challenges of greening transport infrastructure in South Asia: An overview	J					
Impacts of Railways on Elephants: Experience from Bangladesh	V					
Implementation of wildlife mitigation measures: Governance challenges	~					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	~	1.				- AN
I want to be a set of the set of	Mr. Francisco	Ricclardi, Environ	nment Specialist,	ADB	1	-
The second second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
	3	4	3	2	1	0
the Planning and Implementation of Transportation Projects		10111		10 - 10-		~
		Mr. Ajay Desal, Co	ansultant			1
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Applicable
human (Balance Protect Front	5	4	3	2	4	0
from India	•	V	Central			
		Dr. Suresh Kum	ar, Wil			
	Very Satisfied	Satisfied	Neutral	Discatisfied	Very	Not
	5	4	3	2	1	0
Developing context sensitive solutions for other linear inhostructure projects	V	( ( Sec. )				







FIELD TRIP - To review	v the conservation ch	allenges associated	d with the linear infras	tructure projects (Ra	ill and Road)	
No. 100 Person and and and	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	2	1	0
Dr. Blvash Pandav	V.					
Dr. Anii Kumar Singh			12 Hores			
Methodology and Materials						
Use and quality of presentation materials	~					
Use and quality of handouts/reading materials	~	13.0	121			
Appropriateness of overall methods used	1					
Logistics and Administrative Support	t					-
Pre-program communications & confirmation	1	- Second			TOP	
Venue	V		II THE REAL PROPERTY OF	1.71		
Support provided by organizers	~			Survey S		
					Almost Nat	
Probability of Achieving R	esults	Completely	Completely	Partially	at All	Not at All
Have the discussions prepared you suff adapting what you have learned to your environment?	iciently well for work	-	~			
Learning Evaluation		Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program knowledge, skills and attitudes you nee	rgive you the d?		· ~			
Overall Program Qual	ity	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the program	e learning	V	163%			
Encouraging Participation	Yes	No	]			
Will you recommend the learning program to others?	V					

The biggest strength of the program? make awaved the participants for this aspect we cildlife. 1. What do you think were the biggest strengths of the learning program? 2. What do you think were the biggest weaknesses of the learning program? I don't think it is exckness, but I would like if the program can emphasis move about that the disturbance to wildlife may have dot several damages to human life. [3]







## COURSE EVALUATION

and implementation of tran	sportation p	rojects in S	outh Asia				
Date: 15th - 19th July 2019	Time:			Venue: WILDLIF	FE INSTITUTE OF INDIA		
Department	Aniom	Derelo	print	Bomk			
Years of work in the subject matter	less than 1						
of the program/event	year	1-3 years	4-10 years	> 10 years			
SATISFACTION EVALUATION							
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable	
	5	4	3	2	1	0	
Program Content							
Content of the learning program		~			-		
Relevance of the content to your work	-	1					
Duration of the learning program		1	1000				
Program Objectives							
Objectives were stated clearly							
Objectives support desired results			1	1			
Learning outputs were clear and support objectives		S,					
Objectives were achieved		1		1220			
Speakers		- Sugar-					
		Dr. Vinod Math	ur. Wil	- F - E			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not	
and the second second second	5	4	3	2	1	0	
Review of global development trends in road and rail sectors and challenges for biodiversity conservation		5					
Planning road development in tigh value conservation forests: New insights	~		-			100-00	
Promoting Eco-Iriendly measures to mitigate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation	5			- State			
Case examples of offsets	1			C. C. C. C.	0183		
Introduction to Group exercise for evaluating an offset scheme for linear developments is a forested landscape		~					
Shri Pravoen	Pardeshi, IAS, Com	missioner, Brihu	nmumbai Munici	pal Corporation, Mum	bal		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable	
	1	+	3	2	1	0	
Keytote address	V		A DECEMBER OF STREET,				





	-	Dr. Asha Rajvan	shi, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
The second se	5	4	3	2	and and the second	0
planning and implementation of development projects		~				
Nature engineering crinciples and elements of smart green infrastructure		5			1000	
Relevance of transportation ecology in promoting green transportation infrastructure		$\checkmark$	3374	201 S. 740		
Good practice guidance for intrastructure development and design: Experiences from lodia		~			1000	
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		5				
Introduction to a SEA Plan: Hands-on Exercise		5	Ne Ball			
Review Group exercise		5			17.5	
Offsets for compensating residual impacts. Concept to practice		1	100 200	-345 254		
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	-	1				
		Dr. Matvika Onle	al, Wil	State of Street Street		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
and the second list	5	4/	3	2	I DESCRIPTION	0
Introduction to the course						
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	1					
Framework for manistrearning biodiversity in planning and implementation of developments in the provide the sector.		5			1	
traisponanter secto	Mr.	Norris Dodd, Con	sultant, ADB	COLUMN TWO IS NOT	111	1
	Very Satisfied	Satisfied	Nautrai	Dissatisfied	Very	Not
	5				Dissatisfied	Applicable
Prospects and challenges of greening transport infrastructure in South Asia. An overview	-	~				
Impacts of Railways on Elephants: Experience from Bangladesh		~				
Implementation of wildlife mitigation measures: Governance challenges	2008575	~	SHOE.	3 (123)		
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other counties	$\checkmark$		- 212			
	Mr. Francisco	Ricciardi, Environ	ment Specialist,	ADB		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not
TATAL AND THE TATAL AND THE TATAL	5	4	3	2	1	0
Why, What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		5				
		Mr. Ajay Desai, Co	insultant	To part of		
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5	-	3	2	1	0
nom adia		Dr. Suresh Kum	ar, Wil			
	line Outpot	D.C.C.I	1000	Designed	Very	Not
	Very Satisfied	Setisted	Neutral	Desetened 2	Dissatisfied	Applicable
Developing context sensitive solutions for other linear infrastructure projects		1				





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FIELD TRIP - To revie	w the conservation cha	allenges associated	with the linear infras	tructure projects (Ra	al and Road)	//
The second second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Disestiafied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		Ny	1			
Dr. Anil Kumar Singh		4				
					-	
Methodology and Materials					-	
Use and quality of presentation . materials		~			12.0	
Use and quality of handouts/reading materials		1				
Appropriateness of overall methods used		~				
Looistics and Administrative Support	t	-				
Pre-program communications & confirmation		1000	1	Sec.		
Venue		1000	1	+ Barriel		
Support provided by organizers		1		1.000	1	
Probability of Achieving F	lesults	Completely	Almost	Partially	Almost Not	Not at All
Have the discussions prepared you sul adapting what you have learned to you environment?	ficiently well for r work			10.50		
Learning Evaluation	1. 1. 2. 2	Completely	Almost Completely	Partially	Almost Not at All	Not at All
To what extent did the learning program knowledge, skills and attitudes you nee	n give you the ad?		1			
Overall Program Qua	lity	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the program	e learning		~			
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	~					

[3]

#### PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program?

- very good resource persons.

2. What do you think were the biggest weaknesses of the learning program?

- Logistics and food.





3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning?

- Relation between EIA and SEA. Differince

4. What new knowledge, skills and attitudes have you gained from the learning program?

New Knowledge (on the different focus areas of the learning program)

- Connectivity of corridor. - Natural Engineering ~ Offset

New Skils (e.g. project formulation, processing, management, etc.,)

New Attitudes (e.g. flexibility, being more responsive, etc.,)

5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace?

List at most 3 action items you intend to pursue this year.

- inclusion of natural engineering. - SEA.

6. Any other comments/remarks?

- Field trip should be arranged to along with - Continental Good com the provided ( Other ogeneics. NUA

Thank you for your feedback.



भारतीय वन्यजीव संस्थान Wildlife Institute of India



# COURSE EVALUATION

Program Title: Building cap and implementation of tra	acity for con sportation p	serving and rojects in S	managing outh Asia	natural capita	during the	planning
Date: 15th - 19th July 2019	Time: 10	:00		Venue: WILDLIF	EINSTITUTE OF	INDIA
Department	Azian	n her	ndal as	nent s	Bank	
Years of work in the subject matter of the program/event	less than 1 year	1 - 3 years	4-10 years	> 10 years		
SATISFACTION EVALUATION						
Program Area	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
A PROVIDE A PROPERTY.	5	4	3	2	1	0
Program Content						
Content of the learning program	V	- File				
Relevance of the content to your work		V	12 6 8			
Duration of the learning program		V				
Program Objectives		-				
Objectives were stated clearly	V					-
Objectives support desired results	1					
Learning outputs were clear and support objectives		$\checkmark$			1314	
Objectives were achieved	V					
Speakers						
NTERS STRUCT		Dr. Vinod Math	ur, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4.	3	2	1	0
Review of global development trends in road and rail sectors and challenges for biodiversity conservation	V					
Planning road development in high value conservation forests. New insights	/	200-20		-		
Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife. From best practice prescriptions to implementation	~		an			
Case examples of offsets	~			D. LEADER		
Introduction to Group exercise for evaluating an offset acheme for linear developments in a forested landscape		~	3.577			
Shri Praveo	n Pardeshi, IAS, Con	missioner, Brihar	mumbai Munici	pal Corporation, Mum	bai	
	Very Satisfied	Satisfied	Neutrali	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	1		0
Keynote address		V			1 M	





A THE OWNER OF TAXABLE		Dr. Asha Rajvan	shi, Wli			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Discatisfied	Not Applicable
The minumes of mainteening blothundhy in	5	4	3	2	1	0
alarning and implementation of development arolects	V	1.2.2	127			
Nature engineering principles and elements of smart green infrastructure		~	12			
Relevance of transportation ecology in promoting green transportation infrastructure				1		
Good practice guidance for infrastructure development and design: Experiences from India	~	Contraction of the	18 5-			
Strategic Environmental Assessment (SEA) A pro-active approach to avoid reactive mitigation	$\checkmark$				10 324	
Introduction to a SEA Plan: Hands-on Exercise	$\checkmark$					
Review Group exercise	$\checkmark$		1		177927	In The
Offsets for compensating residual impacts: Concept to practice		~			(Balles)	
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		$\checkmark$				
	No. 19	Dr. Malvika Onia	al, Wil			
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
In the second	5	4	3	2	Utstatisted 1	Applicable
Introduction to the course					1000000	102
Conservation and Management of Natural Capital for achieving Sustainable Development Goats	$\checkmark$					The second
Framework for manistreaming biodiversity in planning and implementation of developments in transportation sector.		~			The second	
	Mr.	Norris Dodd, Cons	sultant, ADB		40	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Vory Disastiefied	Not Applicable
Personale and challenges of an article branches	5	4	3	2	1	0
Infrastructure in South Asia: An overview Intrastructure in South Asia: An overview	~			Com Internet	10.7	
from Bangladesh	and the second	V.	1	No C. R.		
Implementation of wildlife mitigation measures Governance challenges	V			The state of the s		(Park)
Developing contact sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	V					
	Mr. Francisco	o Ricclardi, Enviros	nment Specialist,	ADB	-	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Miles Milest and Menuel Destort Menuel Control in	5	4	3	2	1	0
the Planning and Implementation of Transportation Projects	110 10 10	$\checkmark$				
No Vesta		Mr. Ajay Desai, Co	ensultant		-	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5		3	2	1	0
1011100		Dr. Surseh Kum	ar, Wil		- 21	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not
	5	4	3	1	Ussatisfied	O
Developing context sensitive solutions for other linear infrastructure projects		~	-	I STATE		



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	Van Farafad	Satisfied Neutral	Neutral	Dissefation	Very	Not
	very Setsing	Jauseeu	(Wester		Dissatisfied	Applicable
by Direct Danday	5.	1				*
r. Anii Kumar Singh	100000000	5	× *		1	
The second s	A		Sector Sector			
Methodology and Materials			14 JA		Section of the sectio	
Use and quality of presentation materials		~				
Use and quality of handouts/reading materials	/					
Appropriateness of overall methods used		~				
Logistics and Administrative Support	t		Contraction of the		1	
Pre-program communications & confirmation	1 - with		~	1000		
Venue	~			Server's	-	
Support provided by organizers	V		1	1000		-
Probability of Achieving Results		Completely	Almost Completely	Partially	Almost Not at All	Not at Al
Have the discussions prepared you sut adapting what you have learned to you environment?	ficiently well for r work		~			
Learning Evaluation	1	Completely	Almost Completely	Partially	Almost Not at All	Not at Al
To what extent did the learning program knowledge, skills and attitudes you nee	n give you the ed?		/	201		
Overall Program Qua	lity	Excellent	Good	Average	Poor	Very Poo
Overall assessment on the quality of the program	e learning	V				
Encouraging Participation	Yes	No	1			
Will you recommend the learning program to others?	~		1200			
PROGRAM EVALUATION						
1. What do you think were the View	et etraoathe of the	learning program	m2			
i. what do you think were the olgge	at attenyors of the	rearing progra			21.0 1	most

2. What do you think were the biggest weaknesses of the learning program?

[3]

भारतीय वन्यजीव संस्थान Wildlife Institute of India 3. What other areas/topics do you think could have been included to further improve the discussions and design to maximize learning? more focus on sild lif croop 4. What new knowledge, skills and attitudes have you gained from the learning program? New Knowledge (on the different focus areas of the - wild life connectivity in learning program) transport project - Impertance and how it can be addression New Skills (e.g. project formulation, processing, management, etc.,) New Attitudes (e.g. flexibility, being more responsive, etc.,) 5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace? List at most 3 action items you intend to pursue this year. - will vole the skills learned in ongoing and future transport projects. - I will descriminate the learning knowledge with the other staffs in my file - Presentedie 6. Any other comments/remarks? The duraction of the program can be reduced to three days and more Journed List at most 3 action items you intend to pursue this on with life connectivity - impact and croasings

[4]



RAM CHANDRA भारतीय वन्यजीव संस्थान Wildlife Institute of India



### COURSE EVALUATION

Program Title: Building capacity for conserving and managing natural capital during the planning and implementation of transportation projects in South Asia Venue: WILDLIFE INSTITUTE OF INDIA Time: Date: 15th - 19th July 2019 NBCC (INDIA) LIMITED Department less than 1 Years of work in the subject matter 1 - 3 years 4-10 years > 10 years year of the program/event SATISFACTION EVALUATION Very Not Dissatisfied Very Satisfied Satisfied Neutral Program Area Dissatisfied Applicable Ô 3 2 1 5 4 **Program Content** V Content of the learning program  $\checkmark$ Relevance of the content to your work V Duration of the learning program **Program Objectives** V Objectives were stated clearly V Objectives support desired results Learning outputs were clear and support objectives V Objectives were achieved Speakers Dr. Vined Mathur, WII Very Not Dissatisfied Satisfied Neutral. Very Satisfied Dissatisfied Applicable 4 2 0 3 5 Review of global development trends in road and rail sectors and challenges for blochversity conservation Planning road development in high value conservation forests: New insights Promoting Eco-friendly measures to mitigate impacts of linear intrastructure developments on wildlife. From best precise prescriptions to implementation Case examples of offsets Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape Shri Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai Very Not Dissatisfied Neutral Very Satisfied Satisfied Applicable Dissatisfed 3 2 0 5 4 Keynote address





		Dr. Asha Rajvana	shi, Will			
	Very Setisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
In the second	5	+	3	2	1	0
The relevance of mainstreaming biodiversity in planning and implementation of development projects	Renter	V	M. B. S.		05.00	
Nature origineering principles and elements of smart green infrastructure	Y			1355 37	+	
Relevance of transportation eoology in promoting green transportation infrastructure		V				BARREN I
Good practice guidance for infrastructure development and design: Experiences from India	1-21	V				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	V		Par		SALE I	1
Introduction to a SEA Plan: Hands-on Exercise	V			tream re	9 E-5	
Review Group exercise	V			1000		
Offsets for compensating residual impacts Concept to practice	80	V				
Introduction to Group exercise for evaluating an offset scheme for ineer developments in a forested landscare	V		2.800			34.23
		Dr. Maivika Onia	d, Will		the second se	
	Very Satisfied	Satisfied	Neutral	Disastisfied	Very	Not
	5		3	2	Dissatisfied	Applicable
Introduction to the course	V					V
Concervation and Management of Natural Capital for achieving Sustainable Development Boals		V			1	10-2
Framework for mainstreaming blodwersily in planning and implementation of developments in transportation sector	V					
	Mr.	Norris Dodd, Cons	uitant, ADB		Contraction of the local division of the loc	
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
infrastructure in South Asia: An overview		V		F		
trom Bangladesh		V		24-12		22 24
Sovemance challenges	V			the second		12-3-1
and rail sectors: Lessons learnt from road projects in North America and other countries	V		1			
	Mr. Francisco	Ricclardi, Environ	ment Specialist,	ADB	17 miles	UC NEED -
and the second second	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very	Not Applicable
	5	4	3	2	1	Û
Why. What and How to Protect Natural Capital in the Planning and Implementation of Transportation Projects		V				
and the second second		Mr. Ajay Desal, Co	nsultant		-	-
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
Impacts of Railways on Elephants -Experience	5	4	3	2	1	0
Forn India	Y	Dr. Sumah V	ar Will			
		on our bain realma				1000
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Dispatiplied	Applicable
Developing context securities solutions for other	0	4	3	2	1	0
Inear infrastructure projects	V					



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		Almost	0	Almost Not	08.00.00.0
lits	Completely	Completely	Partially	at All	Not at A
Have the discussions prepared you sufficiently well for adapting what you have learned to your work environment?		V			
	Completely	Almost Completely	Partially	Almost Not at All	Not at Al
ve you the	~				
	Excellent	Good	Average	Poor	Very Poo
arning	V				
Yas	No	1			
V				-	
			-		
trengths of the	learning progra	m? (Slides)	material	4	
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3. What other areasitopics do you think could have been included to further improve the discussions and design to maximize learning?

4. What new knowledge, skills and attitudes have you gained from the learning program?

New Knowledge (on the different locus areas of the Different problems faced while planning and implementation of transportation and power transmission line projects. The mitigation measures which can be taken and examples of offset developments around the world learning program)

New Skills (e.g. project formulation, processing, management, etc., New Skill learned for EIA and SEA. Also learned why and have to develop an offset.

New Attitudes (e.g. flexibility, being more responsive, etc.)

Shall be thinking in more dimensions while implementing projects, shall be more responsible.

5. How will you use the knowledge, skills and attitudes that you have gained from the learning program when you return to your workplace?

List at most 3 action items you intend to pursue this and actively participate while working on or obtaining year.

ELA clearances.

6. Any other commentairemarks?

Thank you for your feedback.