Training Programme

on

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

15 - 19 July, 2019

Workshop Report

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA-ENDORSED TRAINING COURSE
IAIA
International Association for Impact Assessment
15-19 July 2019

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[1]. 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.[2]

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.

[1] World Bank Report, 2019
[2] ADB Natural Capital Tech Report, 2019

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 'ice-breaker' 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 eco-sensitive 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

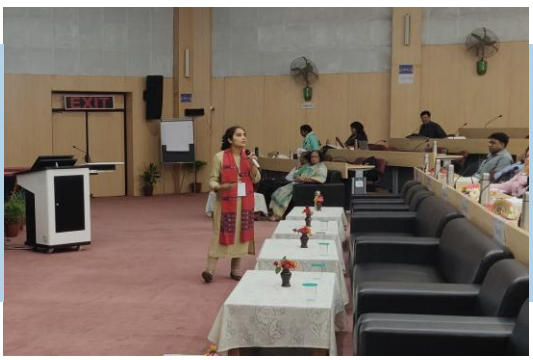
impacts on transport and mitigation and adaptation measures. The way forward is to make transport planning, policy and investment decisions based on sustainable development dimensions – social development, environmental impacts and economic growth.

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.

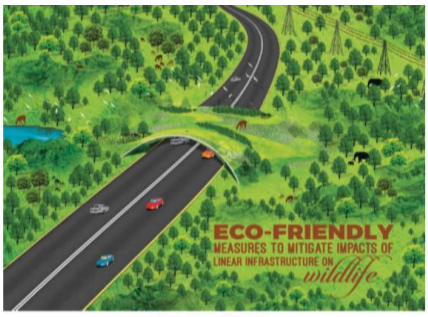
- Mr. Norris Dodd gave the last lecture of the day with a detailed case study from Chittagong-Cox's Bazar Railway Project to understand the impacts of railways on Elephants in Bangladesh. The presentation focused on the various threats to their population and their status in Bangladesh. He gave an overview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



High Resolution:
http://www.wii.gov.in/images//images/documents/eia/EIA_BPG_Report_2017.pdf

Low Resolution:
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- 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 up-to-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.

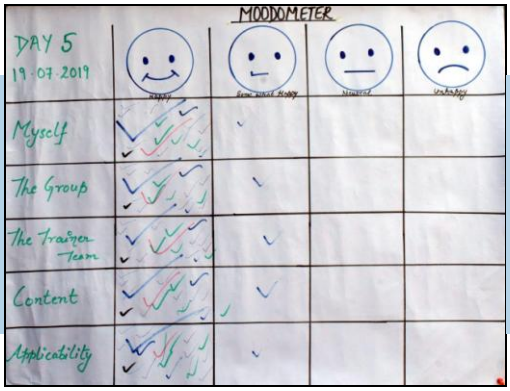
6. The salient outcomes of the workshop and milestones achieved:

- 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.



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

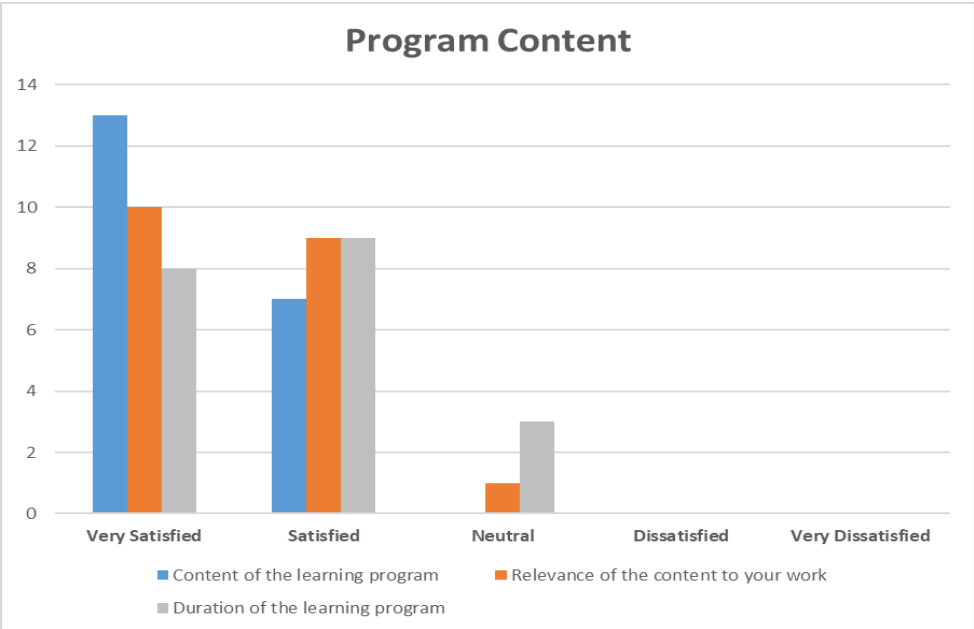
More detailed feedback based on the responses obtained on the feedback questionnaire is presented in **Appendix-2**.

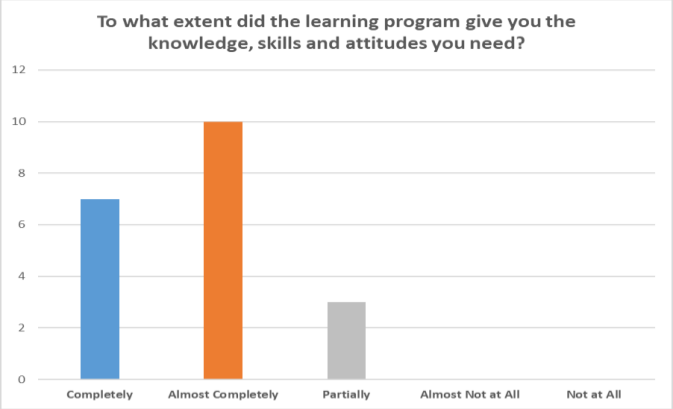
Feedback Analysis

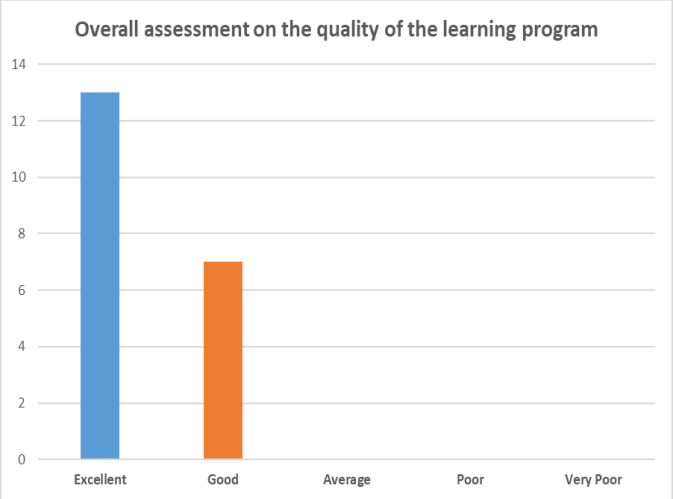
Based on the comments made by participants and the results extracted from the feedback questionnaire, the evaluation was conducted on a 1 to 5 scale, 1 standing for the minimum satisfaction and 5 for the maximum.

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



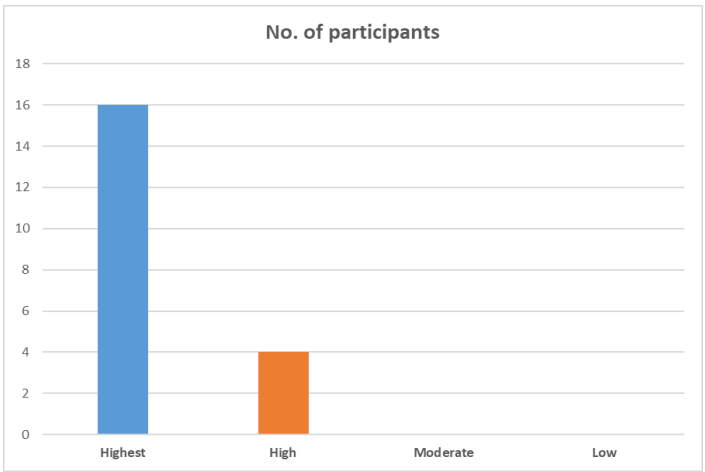




The criterion of overall satisfaction has been evaluated on a 1 to 10 scale, with ratings 1 – 3 standing for 'very dissatisfied', 4 - 6 for 'moderately satisfied', 7 - 8 for 'highly satisfied' and 9 - 10 for 'very highly satisfied'. The complete and detailed results are presented in **Appendix-2**.

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.	Topic	Resource Person	Rating				% Rating
			Excellent	Very Good	Good	Avg.	
1.	Introduction to the course	*Dr. Malvika Onial*	13	4	1		**96**
2.	Keynote address	*Shri Praveen Pardeshi*	9	10			**95**
TECHNICAL SESSION – I CONSERVATION AND MANAGEMENT OF NATURAL CAPITAL							
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**
TECHNICAL SESSION – II PROMOTING SUSTAINABLE DEVELOPMENT AND CONSERVATION IN CONNECTED HABITATS							
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**
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**
TECHNICAL SESSION – V SENSITIVE PLANNING AND SMART GREEN GROWTH APPROACHES FOR MORE PRAGMATIC MITIGATION OPTIONS							
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.	Topic	Resource Person	Rating				% Rating
			Excellent	Very Good	Good	Avg.	
17.	field trip to review the conservation challenges associated with the linear infrastructure projects (Rail and Road)	*Dr. Bivash Pandav*	7	9	3		**91**
		Dr. Anil Kr. Singh	3	13	3		**89**
TECHNICAL SESSION – VI DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD AND RAIL SECTORS							
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 scheme for linear developments in a forested landscape	*Dr. Vinod Mathur*	13	7			**96**
		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

Day One: (Monday) – 15th 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	**Keynote address–***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 – *Dr. Vinod Mathur***
14:30 – 15:30	**Short Film – From Killer Roads to Humane Highways – *Dr.Shekhar Dattatri***
15:00 – 15:30	**TEA**
15:30 – 16:15	**The relevance of mainstreaming biodiversity in planning and implementation of development projects – *Dr. Asha Rajvanshi***
16:15 – 17:00	**Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector –*Dr. Malvika Onial***
17:00	**End of Day 1**
20:00	**COURSE DINNER HOSTED BY DIRECTOR, WII AT REGENTA HOTEL**
Day Two (Tuesday) – 16th 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 – *Dr. Asha Rajvanshi***
11:00–11:30	**Coffee Break**
11:30 – 12:15	**Planning road development in high value conservation forests: New insights – *Dr. Vinod Mathur***
12:15 – 13:00	**Prospects and challenges of greening transport infrastructure in South Asia: An overview – *Mr. Norris Dodd, ADB Consultant***
13:00 – 14:00	**Coffee**
TECHNICAL SESSION – IV DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD AND RAIL SECTORS: CASE STUDIES	
14:00 – 15:00	**Impacts of Railways on Elephants –Experience from India – *Mr. Ajay A. Desai, Consultant***
15:00 – 15:30	**TEA**
15:30 – 16:30	**Impacts of Railways on Elephants: Experience from Bangladesh – *Mr. Norris Dodd***
Day Three (Wednesday) – 17th July 2019	
TECHNICAL SESSION – V SENSITIVE PLANNING AND SMART GREEN GROWTH APPROACHES FOR MORE PRAGMATIC MITIGATION OPTIONS	
09:30 – 10:15	**Good practice guidance for infrastructure development and design: Experiences from India – *Dr. Asha Rajvanshi***
10:15 – 11:00	**Promoting Eco-friendly measures to mitigate impacts of linear infrastructure developments on wildlife: From best practice prescriptions to implementation – *Dr. Vinod Mathur***
11:00 – 11:30	**TEA**
11:30 – 12:30	**Implementation of wildlife mitigation measures: Governance challenges – *Dr. 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) –*Dr. Bivash Pandav, Scientist - F, 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 SESSION – VI DEVELOPING CONTEXT SENSITIVE SOLUTIONS FOR ROAD AND RAIL SECTORS	
09:30 – 10:15	**Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries – *Mr. Norris Dodd***
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 – *Dr. Asha Rajvanshi***
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	**TEA**
15:30 – 17:00	**Review Group exercise – *Dr. Asha Rajvanshi***
20:00	**DINNER**
Day Five (Friday) – 19th July 2019	
TECHNICAL SESSION– VIII INCENTIVIZING CONSERVATION FOR MANAGING RESIDUAL IMPACTS OF DEVELOPMENT PROJECTS	
09:30 – 10:15	**Offsets for compensating residual impacts: Concept to practice – *Dr. Asha Rajvanshi***
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 –*Dr. Vinod Mathur & Dr. Asha Rajvanshi***
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	**TEA**

APPENDIX 2: Feedback summary of the evaluation questionnaires filled in by the participants

Overall satisfaction with the training

(Very dissatisfied) *(Very highly satisfied)*

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

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA International Association for Impact Assessment

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 Highways Authority of India

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

The learning program is very useful to implement the linear infrastructure project by minimizing the impacts on the biodiversity

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

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

The procedure for clearing the proposal of wild life and forest approval may be incorporated.

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)

learned that how to minimize the impacts on the biodiversity rich areas during the implementation of linear projects and what steps is to be taken during implementation.

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

during the initial stage of the project i.e. DPR measure should taken that stage how to reduce the impacts on the rich biodiversity Areas.

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.

- Mitigation steps May ~~should~~ be taken at the besining stage of the project.
- suggested to DPR consultant to study of ~~the~~ species movement by using camera trap etc

6. Any other comments/remarks?

This type of training course should be organized frequently.

Thank you for your feedback.

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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 Highways Authority of India

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh	✓					
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

Firstly providing the study material related to the program and overview of the so wildlife conservation mitigation requirement while constructing infrastructure.

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 Rajaji National park and had one interaction session their.

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IAIA International Association for Impact Assessment

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 wise 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, vulnerability 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 year.

Putting more sensitive towards the project stretch if it ~~which~~ 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.

ADB

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COURSE EVALUATION

Malaka Wijayasinghe.

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	Road Development Authority, Sri Lanka.

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India			✓			
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation			✓			
Introduction to a SEA Plan: Hands-on Exercise			✓			
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials						
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

Teaching the context sensitive mitigation measures to minimize ecological impacts using examples carried out in the ground.

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

Program is very tight with lectures and it would be better if more field level learning is incorporated.

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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 ~~this~~ behaviour of large animals but road kills are equally applicable for small animals. Therefor equal attention to be paid for measures to reduce 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 ~~eval~~ studying animal behaviour such as camera trapping etc...

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

To be more sensitive on road ecology.

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.

- Environmental assessments which I will be involved will be improved with the knowledge gained.
- ~~Exis~~ Highways which are under operation can be upgraded with feasible measures.
- In monitoring of environmental safeguards compliance.

6. Any other comments/remarks?

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Thank you for your feedback.

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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	Md. Ali Kabir, Deputy Secretary. Ministry of Railways, Bangladesh	

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		✓				
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓	✓				
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation		✓				
Venue		✓				
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? plenty of case studies to explain the situation.

2. What do you think were the biggest weaknesses of the learning program? Duration of the course was too short.

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

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) Road/Rail ecology, Bio-diversity mainstreaming, SEA, offsets.

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

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

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. Dohazari - Cox's Bazar Rail line Project.

6. Any other comments/remarks? diversity of in food requirement.

Thank you for your feedback.

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

BHAVESH VYAS

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/Organization: PADECO INDIA PRIVATE Ltd.

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape						

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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Wildlife Institute of India

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh	✓					
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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? – More field trips would be welcome

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

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3. 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 learning program) Integrating Biodiversity concerns into an EIA.

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

New Attitudes (e.g. flexibility, being more responsive, etc.,) — Sensitivity (to Biodiversity concerns) especially with respect to avian issues 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 year.

- Sensitize colleagues at workplace
- 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.

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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: 2:30 p.m	Venue: WILDLIFE INSTITUTE OF INDIA

Department	Env. Div., ICT, Nt. Ltd. [Tanmoy B.]

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation						
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?			✓ BP Nayak		

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?			✓		

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? ① In depth knowledge of trainers ② The group exercises

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

Less time.

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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 & Noise generated from infra projects on wildlife behaviour?

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)
① Applicability of various passage techniques ② That the species characteristics is a significant criteria that helps design the passages. ③ Offset is a strong concept & shall be taken forward.

New Skills (e.g. project formulation, processing, management, etc.,) managing of mitigating & offsetting the impacts on wildlife.

New Attitudes (e.g. flexibility, being more responsive, etc.,)
Being more comprehensive & proactive.

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. ⇒ EIA of ~~from~~ infra projects.*
⇒ Pursue PP for cumulative assessment.
⇒ Like to take up the matter of SEA with some top officials of the country so that an unbiased opinion can be established.

6. Any other comments/remarks?
Want another training more on species specific behaviour & mitigation measures.

Thank you for your feedback.

* Doing the study on impact on WL is a part of EIA. Ofcourse detailed one needs expert inputs from specialised institutes. But atleast can be practical to be responsive enough

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Wildlife Institute of India

DORJI

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: 2.00 PM.	Venue: WILDLIFE INSTITUTE OF INDIA

Department	DEPARTMENT OF ROADS, BHUTAN.

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		✓				
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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Wildlife Institute of India

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Nautral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

- Good Coordination, Communication and support from Organizers'

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

—

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

- More field visit and hand on 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 development activities.

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

- Coordination among the stakeholders is must.
-

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

- Conserving and managing nature is every ones responsibility.

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 colleagues.
- Correlate to practical use
- Encorage friends.

6. Any other comments/remarks?

—

Thank you for your feedback.

ADB

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Wildlife Institute of India

IAIA

Ramvilas Singh Patel

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	NHAI

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation			✓			
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav						
Dr. Anil Kumar Singh						
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials			✓			
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation		✓				
Venue		✓				
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
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 with eloquently to main strength was all about the Case studies.

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

weakness was very less related to solutions of the problems only.

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Wildlife Institute of India

IAIA

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 (on the different focus areas of the learning program)

→ New knowledge about the ecofriendly Infrastructure design.

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

Management skills.

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

being 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?

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

→ design of road w.r.t. the ~~area~~ nature.
→ Every Individual has its important.
→ New technologies may adopted.

6. Any other comments/remarks?

Thank you for your feedback.

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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	NHAI

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						
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		✓				
Speskers						
Dr. Vinod Mathur, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course		✓				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		✓				
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India			✓			
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav			✓			
Dr. Anil Kumar Singh			✓			
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?			✓		

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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 road, railways etc

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

→ A proper site visit with more details should have been carried out.

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

→ the bureaucratic hurdles in the implementing good practice should 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 use of underpasses / overpasses / fencing to ~~sto~~ avoid the loss of wildlife.

New Skills (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 empathy.

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. to construct underpass
2. to rectify the existing underpass
3. to show more empathy towards wildlife.

6. Any other comments/remarks?

it was nice experience. This should also be carried out at top management level / planning level officials of the govt to successfully implement these initiatives

Thank you for your feedback.

Chandan Kumar

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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	NHAI

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		✓				
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course			✓			
Conservation and Management of Natural Capital for achieving Sustainable Development Goals			✓			
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector			✓			

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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			✓			
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries			✓			

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

Management is very good.

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

It's too much short Programme

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

E.I.A

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)

Findey out the tree enumeration

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

Project Formulation

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

flexibility

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.

(i) our Project Angul to S.B.P we will utilize there training Programme in well manner
(ii) an economic corridor Raipur to Visakhapatnam it Goes through wildlife Santuary so it will utilize this.
(iii) in Project Sambalpur-Talcher Project. It utilize in both way

6. Any other comments/remarks?

management is very good.

Thank you for your feedback.

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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: 2:00 PM	Venue: WILDLIFE INSTITUTE OF INDIA

Department	Department of Roads, Nepal

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course		✓				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector						

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries			✓			

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav			✓			
Dr. Anil Kumar Singh			✓			
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation		✓				
Venue		✓				
Support provided by organizers		✓				

Probability of Achieving Results	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?		✓			

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?			✓		

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

1. **What do you think were the biggest strengths of the learning program?**
lectures, content.

2. **What do you think were the biggest weaknesses of the learning program?**
Distribution of power point presentation copy at the end of the program.

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

Some field visits to experience success story

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) I have very few knowledge. on wildlife conservation. It got the opportunity to enhance.

New Skills (e.g. project formulation, processing, management, etc.,) After attending this program i am able to know the importance. and will give emphasis during project formulation

New Attitudes (e.g. flexibility, being more responsive, etc.,) This program let me know more about 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 year. Though i am not only the responsible person, but I will try to give emphasis on wildlife conservation.

6. Any other comments/remarks?

I am very much satisfied from the course.

Thank you for your feedback.

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IAIA International Association for Impact Assessment

COURSE EVALUATION

P. K. Piyarathne
Sri Lanka.

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: 2.00 p.m.	Venue: WILDLIFE INSTITUTE OF INDIA

Department	Colombo Sub-Urban Railway Project.

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Wildlife Institute of India

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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Wildlife Institute of India

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation		✓				
Venue		✓				
Support provided by organizers		✓				

Probability of Achieving Results	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?		✓			

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

- Campus environment
- Director (WII). Ms Asha Rajavinci.

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

Food quality gradually decreased.

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

Impact of tribal (indigenous people) groups & their relocation if it is not avoidable.

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 Environmental Assesment.

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

EIA preparation.

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

Yes - more flexibility.

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.

- Environmental Impact assessment.
- Elephant - Rail accidents - to avoid measures - short term and long term.

6. Any other comments/remarks?

Dr. Mahindra Mathur's lectures are interesting to hear and very clear for those who came in other subjects too.

Thank you for your feedback.

P. Ko.

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	Roads and Highways Department

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials			✓			
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?					

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

The researches of the institute were the biggest strengthen for the learning program.

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

The food facilities for the program were the biggest weakness.

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

The application guidelines, the scenario of out india may like Africa, South America etc. may improve the discussion.

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 pregervation of our wild life as well as our natural environment parallalel with Linear infrastructure development.

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

The program will be helpful for project planning, preparation and processing of new project.

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

we will be able to be responsive for the project.

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.

The project planning and preparation stage the knowledge can be applied.

6. Any other comments/remarks?

Overall the trainging program was good for developing knowledge.

Thank you for your feedback.

ADB

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COURSE EVALUATION

Girish Dutt Sharma.

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: 9.30 AM to 5.0 PM	Venue: WILDLIFE INSTITUTE OF INDIA

Department	Public Works Deptt. Rajasthan, JAIPUR

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation						
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

1. What do you think were the biggest strengths of the learning program? updating the Env. Impacts their assessment and Mitigation.

2. What do you think were the biggest weaknesses of the learning program?
Time for actual Case Study i.e. Rajaji National Park was not adequate. I propose one night stay in Park area to understand well.

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3. What other areas/topics 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.,)

Processing

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

1. To identify EIA at feasibility/DPR Stage.
2. well define in Implimentation Stage.

6. Any other comments/remarks?

Programme was excellent.
Thank to All who were the part of Program.

Thank you for your feedback.

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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	Department of Roads

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		✓				
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice		✓	✓			
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector			✓			
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries		✓				
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants - Experience from India		✓				
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓		✓			
Dr. Anil Kumar Singh	✓					
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used						
Logistics and Administrative Support						
Pre-program communications & confirmation		✓				
Venue		✓				
Support provided by organizers		✓				

Probability of Achieving Results	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?		✓			

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

- Resource Persons who are very experienced.

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

- long lecture method
- Minimum field & practicle visits.

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

- More practicle (brainstorming) sessions.
- 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 roads.
- How to mainstream it
- Conservation is not for other, it is for human itself.

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

- Need of protection of Natural 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.

- Ensure Every IEE/EIA team has a biologist/ecologist or relevant person.
- Advocate for the conservation in each road project
- Disseminate my knowledge to the DOR team.

6. Any other comments/remarks?

Acknowledgement to the WII & ADB team.

Thank you for your feedback.

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COURSE EVALUATION

Kh. Khabilongkhup.

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: 1400	Venue: WILDLIFE INSTITUTE OF INDIA

Department	

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice	✓					
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course		✓				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?	✓				

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

Bridging knowledge gap; and understand of issues and approach to analysis for planning and design.

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

There weren't any biggest weakness. However, the content on designing of mitigation measures, it's specifica~~l~~ addition could have more clarity.

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

The group exercise could have been more discussion.

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) Terminology used and principles for & in biodiversity.
Criteria for monitoring & evaluat°.

New Skills (e.g. project formulation, processing, management, etc.,) Integrat° of Biodiversity in planning and design.

New Attitudes (e.g. flexibility, being more responsive, etc.,) More responsive in planning and design.

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.

knowledge sharing.
planning & Design.
Monitoring

6. Any other comments/remarks?

Thank you for your feedback.

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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: 02:05 PM	Venue: WILDLIFE INSTITUTE OF INDIA

Department	NBCC (India) Ltd.

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address						✓

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice						✓
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape						✓
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course						✓
Conservation and Management of Natural Capital for achieving Sustainable Development Goals						✓
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector						✓
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓	✓				
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓	✓				
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

ADB

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav	✓					
Dr. Anil Kumar Singh	✓					
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

The biggest strength of the program is to make ~~get~~ aware the participants for this aspect i.e. wildlife.

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

I don't think it is weekness, but I would like if the program can emphasis more about that the disturbance to wildlife may have ~~not~~ several damages to human life.

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

① ~~The~~ Sivere effect of on human life because of endangering wildlife.

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 whole program was illuminating to me.

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

Project formulation

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.

I ~~will~~ would like to educate the people around me

6. Any other comments/remarks?

Thank you for your feedback.

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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	Asian Development 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
	5	4	3	2	1	0
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address	✓					

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Wildlife Institute of India

IAIA International Association for Impact Assessment

Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation		✓				
Introduction to a SEA Plan: Hands-on Exercise		✓				
Review Group exercise		✓				
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course		✓				
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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		✓				
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials		✓				
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation			✓			
Venue			✓			
Support provided by organizers		✓				

Probability of Achieving Results	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?		✓			

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program		✓			

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

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.

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Wildlife Institute of India

IAIA

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. Difference

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 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.

- inclusion of natural engineering.
- Offset
- SEA.

6. Any other comments/remarks?

- Field trip should be arranged to along with
- Continental Food can be provided / Other agencies. NHA

Thank you for your feedback.

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भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

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: 14:00	Venue: WILDLIFE INSTITUTE OF INDIA

Department	Asian Development 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
	5	4	3	2	1	0
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Dr. Asha Rajvanshi, WII						
	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	✓					
Nature engineering principles and elements of smart green infrastructure		✓				
Relevance of transportation ecology in promoting green transportation infrastructure	✓					
Good practice guidance for infrastructure development and design: Experiences from India	✓					
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape		✓				

Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course						
Conservation and Management of Natural Capital for achieving Sustainable Development Goals	✓					
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector		✓				

Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					

Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India		✓				

Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects		✓				

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Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials		✓				
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used		✓				
Logistics and Administrative Support						
Pre-program communications & confirmation			✓			
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?		✓			

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

Program provided the knowledge on the importance of wild life crossings in transport projects.

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

No such weaknesses.

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IAIA

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 wild life crossing - connectivity.

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)

- wild life connectivity in transport project — Importance and how it can be addressed.

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 use the skills learned in ongoing and future transport projects.
- I will disseminate the learning/ knowledge with the other staffs in my office - Presentation.

6. Any other comments/remarks?

- The duration of the program can be reduced to three days and more focussed on wild life connectivity - Impact and crossings in transport project.

Thank you for your feedback.

RAM CHANDRA MAJHI

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	NBCC (INDIA) LIMITED

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						
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 Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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 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 Praveen Pardeshi, IAS, Commissioner, Brihanmumbai Municipal Corporation, Mumbai						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Keynote address		✓				

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Wildlife Institute of India

Dr. Asha Rajvanshi, WII						
	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		✓				
Nature engineering principles and elements of smart green infrastructure	✓					
Relevance of transportation ecology in promoting green transportation infrastructure		✓				
Good practice guidance for infrastructure development and design: Experiences from India		✓				
Strategic Environmental Assessment (SEA): A pro-active approach to avoid reactive mitigation	✓					
Introduction to a SEA Plan: Hands-on Exercise	✓					
Review Group exercise	✓					
Offsets for compensating residual impacts: Concept to practice		✓				
Introduction to Group exercise for evaluating an offset scheme for linear developments in a forested landscape	✓					
Dr. Malvika Onial, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Introduction to the course	✓					
Conservation and Management of Natural Capital for achieving Sustainable Development Goals		✓				
Framework for mainstreaming biodiversity in planning and implementation of developments in transportation sector	✓					
Mr. Norris Dodd, Consultant, ADB						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
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	✓					
Developing context sensitive solutions for road and rail sectors: Lessons learnt from road projects in North America and other countries	✓					
Mr. Francisco Ricciardi, Environment Specialist, ADB						
	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 Desai, Consultant						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Impacts of Railways on Elephants –Experience from India	✓					
Dr. Suresh Kumar, WII						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Developing context sensitive solutions for other linear infrastructure projects	✓					

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भारतीय वन्यजीव संस्थान
Wildlife Institute of India

IAIA

FIELD TRIP - To review the conservation challenges associated with the linear infrastructure projects (Rail and Road)						
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied	Not Applicable
	5	4	3	2	1	0
Dr. Bivash Pandav		✓				
Dr. Anil Kumar Singh		✓				
Methodology and Materials						
Use and quality of presentation materials	✓					
Use and quality of handouts/reading materials	✓					
Appropriateness of overall methods used	✓					
Logistics and Administrative Support						
Pre-program communications & confirmation	✓					
Venue	✓					
Support provided by organizers	✓					

Probability of Achieving Results	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?		✓			

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?	✓				

Overall Program Quality	Excellent	Good	Average	Poor	Very Poor
Overall assessment on the quality of the learning program	✓				

Encouraging Participation	Yes	No
Will you recommend the learning program to others?	✓	

PROGRAM EVALUATION

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

The Content of the presentation (slides) material.

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

None

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3. What other areas/topics 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 focus areas of the learning program) 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

New Skills (e.g. project formulation, processing, management, etc.,) New skill learned for EIA and SEA. Also learned why and how 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 year. Shall be more responsible and actively participate while working on or obtaining EIA clearances.

6. Any other comments/remarks?

—

Thank you for your feedback.