

Project Completion Report on Strengthen Human Elephant Co-existence (HECx) in Nepal

Submitted to International Elephant Foundation (IEF)



DECEMBER, 2020 Submitted BY: Mr. Ashok Kumar Ram, Nepal

1. **Introduction:**

Asian elephant (Elephas maximus) is an endangered mega herbivore in Nepal. It is continuously threatened by habitat loss, habitat fragmentation, human elephant conflict (HEC) in Nepal. Nepal bears about 250 wild elephants and ~210 captive elephants. Nepal has established a comprehensive network of protected areas for conservation of rare and endangered flora and fauna including Rhinoceros, Tiger, Indian Bison, Wild Water Buffalo and Asian Elephant. Human elephant conflict is one of the serious threats to both the elephant and human in Nepal. 10-12 people killed each year along with 2-3 elephant retaliation in Nepal. Elephant attack to human is most common in highest conflict prone areas where 67% of attacks were found fatal. Recent data shows that there are 150-170 people killed during elephant attacks since last 15 years and >20 elephants were killed in retaliatory killings by human. Elephant is present 20 district of lowland Nepal, which showed that elephant distribution is increased in the landscape level compared to late 1990s. Most of the cases happened due to human negligence and inadequate knowledge about the behavior of the wild elephants. Therefore this project was developed to assess the status of HEC in Nepal and strengthen knowledge on elephant conservation among the local people so that long term human elephant co-existence could be developed. The report highlights the major progress made by the IEF supported project which was implemented between January -December 2020.

Goal and objectives:

The project goal is to strengthen human elephant co-existence in Nepal. Specific objectives are:

- Assess status of Human Elephant Conflict (HEC) in Nepal
- Develop Local Resource Persons (LRPs) on Human elephant co-existence and conduct HECx trainings and awareness among the local people to increase their tolerance towards wild elephants

MIDTERM PROGRESS

Objective 1. Assess status of HEC in Nepal

Activity 1.1 Assess status HEC and community's tolerance towards elephants in Nepal

Human elephant conflict (HEC) has been identified as one of the major challenges on elephant conservation in Nepal. Conservation has to be backed up by good science and knowledge. To deal with HEC and to increase the tolerance about wild elephants one has to understand the level of HEC, how communities are perceiving HEC, what practices are being carried out to manage the HEC, what is the level of tolerance towards elephants and what should be carried out to further strengthen their tolerance.

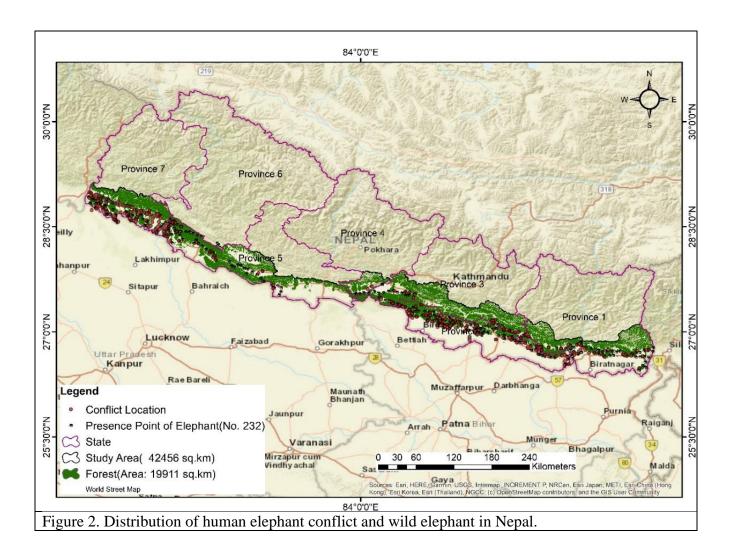
For this purpose, as planned first we developed a set of questionnaire and field tested in Chitwan-Parsa complex with 10 households. Once the questionnaire set is ready then 5 university graduates and 5 local citizen scientists from different clusters were selected as enumerators. They were trained for two days

on questionnaire survey with examples and field practical sessions. Fist 25 household surveys were carried out under the supervision of principal researcher and then 5 teams consisting 2 trained persons in one group formed and sent for field survey on HEC. The principal researcher joined all teams for few days and supervised and assisted them on survey. The HEC survey carried out on 70 elephant affected villages across Nepal Terai.

A total of 490 households were surveyed with questionnaires. The survey data has been entered into the database and preliminary analysis has been completed. A manuscript is under preparation based on the findings of the HEC survey. The paper will be soon published and circulated among stakeholders.



Figure 1. HEC survey in progress with elephant affected farmers



Out of 490 respondents most of them (>85%) were farmers with small landholdings (<0.8ha average land holding/family). Among the total respondents about 77% had faced HEC in any form (property damage, crop damage, attacks etc). About 47% of the respondents had basic knowledge on HECx but 53% of the respondents were not aware about the behavior of the wild elephants and methods of responding them when farmers encounter with the elephants. About 57% of the respondents were positive on elephant conservation while rest were not positive on elephant conservation. The perception of the respondents are mostly affected by the HEC cases they faced in the past. Overall, the HEC survey suggests that i) the efforts to minimize HEC has to be effectively implemented; ii) Still there is low level of awareness among the local farmers towards elephant conservation iii) low number of farmers are aware about HECx and behavior of the elephants. Therefore, the projects that are devised for elephant conservation have to focus on minimizing HEC and strengthen HECx in Nepal.

Objective 2: Develop local resource person (LRPs) on Human elephant co-existence and conduct HECx trainings.

Activity 2.1 Develop local resource persons (LRPs) through ToT on HECx

Conservation education is a most important way to educate local people in the community level to reduce HEC. Local people who were residing near the close vicinity of forest or within 1km of the forest boundary, mostly they are poor, landless, marginalized and uneducated. These people have very little knowledge about the elephant behavior and their attacking positions and most of the casualties happened due to fatal interaction between human and elephant. Originally, we aimed to conduct Trainers Training (ToT) on Human Elephant Coexistence (HECx) for 16 youths from 4 clusters (east, central, west and far west) that have high human elephant conflicts. But due to COVID-19 pandemic there were some travel restrictions and therefore we decided to conduct ToT in two events. We organized a ToT for 16 youths (Table 1) from central and eastern clusters for 4 days at Parsa National Park during 13-16 June 2020. A second phase of ToT targeting to youths from western Nepal was organized in Bardia National Park between 14-16 September 2020. A total of 24 youths took part on the training. We used a HECx training manual developed by National Trust for Nature Conservation. The training was facilitated by Dr. Naresh Subedi, Ashok Kumar Ram, Ramesh Kumar Thapa and Dr. Rabin Kadariya. The trainers were trained on human behavior, elephant behavior, elephant ecology, distribution, nature and extent of human elephant conflict, importance of elephant, ways to maintain HECx, handling problem elephants, ways of behaving with elephants and how to communicate with people about HECx with practical sessions. During the closing sessions Chief Warden of Parsa and Bardia National Park emphasized the need of such HECx trainings followed by village level HECx awareness camps and thanked to IEF and participants.

Table 1. List of HECx ToT participants for the eastern and central landscapes, Nepal.

| SN | Name | Gender | Address |
|----|--------------------------|--------|---------------------------|
| 1 | Sanjeeb kumar budhathoki | M | Katari 9, Udaypur |
| 2 | Narmdev Prasad Yadav | M | Parsagadhi Napa 4, Parsa |
| 3 | Suman magar | M | Triyuga 8, Udaypur |
| 4 | Kameswor chaudhari | M | Lalbandi 3, Sarlahi |
| 5 | Megh Bahadur pokharel | M | JitpurSimara 1, Bara |
| 6 | Surendra chaudhary | M | Gujara 1, Rautahat |
| 7 | Mukesh Chaudahari | M | Hariyoun 7, Sarlahi |
| 8 | Ramesh Kumar Gupta | M | Bahadurmai 9, Parsa |
| 9 | Santosh Kumar Yadav | M | Balwa 5, Mahotari |
| 10 | Binod Singh | M | Hariwan 4, Sarlahi |
| 11 | Sital karki | M | Parsa National Park, Bara |

| 12 | Raju Parajuli | M | Madhyabindu 6, Nawalpur |
|----|--------------------|---|-----------------------------|
| 13 | Uday Pudasaini | M | Makwanpurgadhi 4, Makwanpur |
| 14 | Manpuran Chaudhari | M | Parsa National Park, Bara |
| 15 | Sarswoti Ranamagar | F | Paterwa sugauli 3, Parsa |
| 16 | Parwati Tiwari | F | JitpurSimara 1, Bara |

| List of participants of ToT on Human elephant coexistance Sepotember, 2020 14-16 | | | | | |
|---|-----------------------|-------------------------|-------------|-----|--|
| SN | Name | Institution | Designation | Sex | |
| 1 | Manju Mahatara | Hattisar CBAPU Unit | President | F | |
| 2 | Rabina Chaudhary | Chitkaiya CBAPU Unit | President | F | |
| 3 | Sabitri Tharu | Chitkaiya CBAPU Unit | Member | F | |
| 4 | Shanti Buda | Chitkaiya CBAPU Unit | Member | F | |
| 5 | Krisna Tharu | Chitkaiya CBAPU Unit | Member | F | |
| 6 | Puspa Shahi | Chitkaiya CBAPU Unit | Member | F | |
| 7 | Bal Kumari Chaudhary | Khusalpatuwa CBAPU Unit | Member | F | |
| 8 | Phulmaya Tharu | Khusalpatuwa CBAPU Unit | Member | F | |
| 9 | Saraswoti Tharu | Khusalpatuwa CBAPU Unit | Member | F | |
| 10 | Basanti Baraili | Betahani CBAPU Unit | Member | F | |
| 11 | Rajesh Tharu | Gobrela CABPU Unit | Member | М | |
| 12 | Nirma Chaudhary | Betahani CBAPU Unit | Member | F | |
| 13 | Aarati Tharu | Betahani CBAPU Unit | Member | F | |
| 14 | Asmita Tharu | Bhudkayaiya CBAPU Unit | Member | F | |
| 15 | Shantosh Tharu | Betahani CBAPU Unit | Member | М | |
| 16 | Prakash Chaudhary | Gobrela CABPU Unit | Member | М | |
| 17 | Hari Prasad Chaudhary | Gobrela CABPU Unit | Member | М | |
| 18 | Suman Kumar Chaudhary | Bhudkayaiya CBAPU Unit | Member | М | |
| 19 | Saugat Tharu | Gobrela CABPU Unit | Member | М | |
| 20 | Sandip Tharu | Gobrela CABPU Unit | Member | М | |
| 21 | Samrakchan Chaudhary | Gobrela CABPU Unit | Member | М | |
| 22 | Anas Ram Tharu | Banugaun CBAPU Unit | Member | М | |
| 23 | Narayan Chaudhary | Kusalpatuwa CBAPU Unit | Member | М | |
| 24 | Ram Bahadur Tharu | Banugaun CBAPU Unit | Member | М | |



Figure 3. HECx ToT on progress for the participants from eastern and central complex, Nepal



Figure 4. HECx ToT participants and organizing team at western Terai, Bardia

Activity 2.2. Village level HECx trainings to local communities (35 events)

We conducted 35 events of community level HECx trainings were carried out in different part of Nepal having high level of HEC in which a total of 1107 people participated (Table 2). Among the total participants 56% were male and rest were female. The village level HECx trainings were carried out by using the trained local resource persons (LRPs). The one-day long training was of about 4 hours long. In the training various training methods and tools (eg games, posters presentations, slide shows, short video clips presentations) were used. The classes and video documentaries on elephant behaviour, habitat requirements, ecological importance, nature and extent of HEC, methods to respond elephants and what should be done when the elephants do visit in the villages are discussed/practiced using various training methods and tools. After the training the participant's knowledge on wild elephant's behaviour together with method of saving life when encountered with elephants is expected to be increased. Such village level awareness camps and trainings are very effective to minimize human casualties. Similarly, a short street dram on HECx was organized in the western Nepal using the citizen scientists and local students.

We also tested prior knowledge of participants on the elephant's behaviour, elephant conservation and HECx. We collected data from 774 participants out of 1107 who participated on our HECx trainings. We found that about 55% participants did not have knowledge about elephants and their behaviour, before the training, 30% had basic knowledge and 15% had good knowledge on the HECx. We also evaluated the participants after the training and found that 60% of the participants had good knowledge on elephant's behaviour and HECx; 30% good and 10% still has no knowledge on HECx. Overall, the village level HECx trainings were found very instrumental to increase the tolerance level of communities towards wild elephants and to change the behaviour of people so that life of the people can be saved.

Table 2. Details of village level HECx trainings conducted during the period.

| SN | Date | Location | Partici | pants | Total |
|-----|-----------|------------------------|---------|-------|-------|
| SIN | Date | Location | M | F | TOLAI |
| 1 | 15-Jan-20 | Thori, Suwarnpur | 15 | 13 | 28 |
| 2 | 18-Jan-20 | Amlekhganj, Bara | 30 | 5 | 3! |
| 3 | 02-Feb-20 | Aadhabhar Bara, | 19 | 15 | 34 |
| 4 | 05-Feb-20 | Manhari, Makwanpur | 10 | 13 | 23 |
| 5 | 13-Feb-20 | Manhari, Makwanpur | 23 | 10 | 33 |
| 6 | 19-Feb-20 | Jitpur simra, Bara | 15 | 19 | 34 |
| 7 | 24-Feb-20 | Parsagahi Napa | 19 | 5 | 24 |
| 8 | 15-Mar-20 | Thori4, Nirmalbasti | 25 | 8 | 33 |
| 9 | 19-Mar-20 | Barah, Sunsari | 24 | 14 | 38 |
| 10 | 20-Mar-20 | Prakashpur 10, sunsari | 30 | 15 | 45 |
| 11 | 17-Aug-20 | Baghphanta, Kanchanpur | 12 | 15 | 27 |
| 12 | 18-Aug-20 | Jhilmila, Kanchanpur | 13 | 14 | 27 |
| 13 | 19-Aug-20 | Imaliya, Kanchanpur | 17 | 15 | 32 |
| 14 | 12-Sep-20 | Kothiyaghath, Bardia | 18 | 13 | 31 |
| 15 | 13-Sep-20 | Dalla, Bardia | 17 | 15 | 32 |
| 16 | 14-Sep-20 | Kailasi, Bardia | 13 | 18 | 31 |
| 17 | 15-Sep-20 | Nbanjariya, Bardia | 11 | 14 | 25 |
| 18 | 16-Sep-20 | Manau, Bardia | 13 | 18 | 31 |
| 19 | 17-Sep-20 | Patabhar, Bardia | 15 | 17 | 32 |
| 20 | 18-Sep-20 | Shivpur, Bardia | 16 | 14 | 30 |
| 21 | 19-Sep-20 | Amlekhgunj Parsa | 15 | 16 | 31 |
| 22 | 20-Sep-20 | Subarnapur, Parsa | 11 | 14 | 25 |
| 23 | 20-Sep-20 | Nirmalbasti, Parsa | 16 | 15 | 31 |
| 24 | 21-Sep-20 | Bhikathori, Parsa | 23 | 12 | 35 |
| 25 | 22-Sep-20 | Ayodyapuri, Madi | 16 | 18 | 34 |
| 26 | 23-Sep-20 | Kalyanpur, Madi | 17 | 13 | 30 |
| 27 | 24-Sep-20 | Jagatpur, Chitwan | 18 | 14 | 32 |
| 28 | 25-Sep-20 | Maghauli, Chitwan | 15 | 13 | 28 |
| 29 | 08-Oct-20 | Pipra, Saptari | 16 | 14 | 30 |
| 30 | 09-Oct-20 | Bhardha, Saptari | 18 | 15 | 33 |
| 31 | 10-Oct-20 | Madhuban, Susari | 13 | 15 | 28 |
| 32 | 11-Oct-20 | Prakashpur, Sunsari | 23 | 12 | 35 |
| 33 | 12-Oct-20 | Bahundangi, Jhapa | 18 | 13 | 31 |
| 34 | | Bahundangi, Jhapa | 19 | 17 | 36 |
| 35 | 14-Oct-20 | Jalthal, Jhapa | 25 | 18 | 43 |
| | | otal participants | 618 | 489 | 1107 |



Figure 5. Street drama being performed by local youths on HECx



Figure 6. Community level HECx training participants in Bardia, Patabhar



Figure 6. Community level HECx training participants, Kanchanpur



Figure 7. HECx training participants at Chitwan

Activity 2.3. Develop field booklets on HEcx and distribute to the villagers.

We prepared a booklet on elephant conservation on local language and printed 3,000 copies. The booklet is distributed in HEC prone areas to sensitize elephant affected communities on elephant conservation and saving their own life from elephants. All the booklets have been distributed in HEC prone areas and during the village level trainings and HEC survey The PDF version of the booklet is attached with the report for reference.



Figure 8. Wild elephants in the East west highway at Parsa, Nepal

- 1. Describe the conservation outcomes for elephants, other wildlife, habitat and human communities, and list major findings and accomplishments to date.
 - HEC survey across Nepal conducted. A peer reviewed paper is planned to be published out of this work which will contribute Nepal to develop HEC mitigation strategies and plans.
 - 3,000 copies of elephant conservation booklet produced and distributed to the local communities which will help to minimize HEC and help promote HECx.
 - 40 HECx trainers produced and are working in the field to sensitize people on HECx
 - A total of 35 community trainings on HECx carried out and trained 1107 people on HECx.
- 2. Approximately how many humans/communities are/were impacted by your project? Approximately how many elephants are/were impacted by your project?
 - HEC survey with 490 households
 - HECx trainings to 1107 framers carried out from HEC prone areas
 - 3,000 copies of elephant booklet reached to 3,000 households at HEC prone areas
 - 40 HECx Tutors at community level produced and are functional
- 3. Describe any problems discovered or that occurred during this grant period.

- The global pandemic of COVID 19 has impacted to conducted field level HECx trainings and travel restrictions
 - 4. Was your project successful? State short and long-term goals that you are using to evaluate your accomplishments.

Yes, our project is very successful. Local people were fond of working with this project and they are willing to continue. They have asked to continue the conservation awareness program and also want to be a part of this kind of activities as a volunteer. They have suggested that women and youth should be focused for conservation awareness activities because women were encountered with elephant during fodder and fuel wood collection inside the forest where youths were encountered during chasing elephants. So, they suggested to focus on it. They have also requested to continue this kind of conservation awareness program among the school kids.

5. Based on this Project, what is the "next step" for this project and does it have implications for future conservation actions?

The project "Strengthening Human Elephant Conflict (HECx) in Nepal is very successful project because this project has provided the latest, HEC situation and the major conflict hotspots have been mapped. Our assessment revealed that very low level of community awareness on HECx. Therefore, the behavioral changing training to the HEC affected communities are immensely important to increase the community's tolerance towards wild elephants. Next step of this project would be to strengthen the achievements and reaching to the larger number of people to strengthen community stewardships on elephant conservation.

- 6. **Provide at least one human interest story.** This story should enable the reader to identify with the people, a problem, day-to-day situations, achievements or a funny or strange occurrence during the course of the project. Examples: a story about when the bull elephant put his tusk through the window of the research vehicle or the lion with a snare on his leg and the many weeks it took to find the animal and remove the snare or a specific family who benefitted due to the project. If available, please include a photo of the incident described.
- There are 12 bull elephants in Koshi Tappu Wildlife Reserve (KTWR). Usually, they are in a group of single herds and sometimes in a separated small herd of 6-8. 3-4 loners (Single bull) elephants were wandering nearby villages which had damage a to the human lives and property. These four elephants had killed 26 people around KTWR and also damages lot of houses and crops. Among these four, one elephant story was very interesting and I have written here below.
- People name that elephant as a "Makhana". The Makhana is a dominant bull in KTWR and leaded the sub adult male group and he has contributed a lot in breeding of captive elephants. There are three babies born in KTWR captivity.

- Makhana continuously visited to the local villages for raiding crops and property, he has also killed over a dozen people alone. Once, when he visited to human settlement, he was chased, hit severely with by arrows particularly by one person. Next day, he visited to the same place and continue crop raiding in Saptari district, the land owner came nearer and nearer he again chased and attacked the elephant with fire ball and arrows. But this time, Makhana attacked him and played like a football for half an hour. Hundreds of people came there after that incident, they cried loudly, Makhana didn't stop playing. Finally, people came with tractor and chased the elephant that day. Local people collected the corpse, did the postmortem and buried in the nearby area with rituals. Makhana again came the next night, dugout the corpse and tore all the body parts in to small pieces and then went back.
- This incident happened because of the negative behavior of the people (attacking the elephant). So, Makhana killed that man very badly due to his negative behavior to the elephant. Currently, the Makhana is radio-collared with satellite collars and monitored in a real time basis. When he approaches to the human settlement our park staff inform to the local people and immediately our rapid response team goes and push the elephants towards forest areas. The Makana is not aggressive these days and looks friendly.
 - 7. List all organizations associated with this project and their roles in the project.

| Sn. | List of organization | Role of those institution in | Remarks |
|-----|------------------------------|------------------------------|---------|
| | associated with this project | executing the project | |
| 1 | Ujyalo Nepal | Preparing booklet | |
| | | (Educating material) | |
| 2. | NTNC | Facilitating for TOT and | |
| | | monitoring the project | |
| 3. | Parsa NP, | Facilitating for TOT and | |
| | | monitoring the project | |
| 4. | Chitwan NP, Bardiya NP, | Monitoring the project | |
| 5 | Department of National | Provided permission and | |
| | Parks and Wildlife | also monitored the project | |
| | conservation | | |
| | | | |

- 8. Include an itemized financial report of IEF funds spent as a separate page of the report.
- The financial report is attached separately.
 - 9. Submit at least five high resolution digital images (500 dpi or over) representative of the Project as separate individual files for each 6 month and final report. Do not send the same photos for multiple reports. If possible, please include at least one photo with an elephant in the frame that demonstrates your project activities.
- Photos are attached with the mail.

- 10. Submit at least one video clip least 2 minutes in length for each 6 month and final report. Do not send the same video for multiple reports. The video can cover anything you think IEF and/or the general public might find interesting as long as it relates to the project funded by IEF and includes the following:
 - Introduce yourself and the title of your project
 - State the purpose of the project
 - Please very briefly acknowledge the International Elephant Foundation.
 - Must have either audio or subtitles
 - If the audio is not in English or if it is difficult to understand or hear, provide a written transcript in English.
 - Do not add music to your video.
 - Please try to include footage of elephants when possible

Please remember that the general public and donors are fascinated by the work you do and your knowledge of and experience with elephants. They want to learn about the projects that help elephants and see how their donation is being used. You can explain the goals, objectives and significant outcomes of your project, or take us through a day in the life of a patrol or your interactions with community members, or tell us why your project has greater implications for elephant conservation. Use your imagination to tell us your very special conservation story.

- 11. Do you intend to publish and/or present your findings at a conference or symposia? Please provide us information about the journal/conference/symposia and a timeframe.
- Yes, it will be published on peer reviewed journal. I am working on the manuscript. Acknowledgements will be given to IEF.
 - 12. Has your project received any media coverage? If so, provide copies of the articles, videos, etc complete with web links if the coverage was online.

Yes our project has received the media coverage and help to not kill the rougue makhana of Koshi Tappu Wildlife Reserve, where local government has decided to kill but we raise the issue and it is now safe. Please see the link below.

https://kathmandupost.com/climate-environment/2020/12/17/to-kill-or-not-to-kill-authorities-and-wildlife-conservationists-debate-fate-of-elephant-that-recently-killed-a-man-in-sunsari?fbclid=IwAR1SB9r-WmQ6tCISBnPsSrLHqS-5HG7DwF9jKSpB4AsavB-OXfKqwNrfrLU

Other related,



भाषादेखि कञ्चनपुरसम्म हो । यसबीचमा तराईका १८ र चुरेका ३ गरी २१ जिल्ला पर्छन् ।

कापामा भारतको पश्चिम बंगालदेखि हातीको बचान आउंछ र बेलावेले वितरण्डा मच्चाउँछ। स्थापी स्थमा अग्राज्य र बेलावेले वितरण्डा मच्चाउँछ। स्थापी स्थमा भग्नामा १० देखि १० वटा रेथाने हाती छन्। त्यहीका केली हाती सुन्तरी, सप्तरीको कोलीटप्पू बन्यजन्तु आरक्षसम्मै आउंछन्। कोलीम पिन ९ देखि १० रेथाने हाती छन्। पूर्वी धेषका ती हाती कमता खोला स्वर्थनेन मन्नी विवसा प्रयोग । तप्त, पूर्वी धेषका हाती अहिले सिनधुली हुँदै बर्दियास, सलांशिसम्मै आएर वितरण्डा मच्चाउने गरेको अशोक सुनाउंछन्। पीएपडी शोधमा हातीको जेनेटिकन्ली एक ठाउँबाट अर्को ठाउँसमा कनेस्टेड छ कि छोन भनेर अध्ययन गर्न खोजेको छु उती

भन्छन् । योबाहेक नेपालका चारवटा ब्लकमा जंगली हात्ती यति नै हुन् भनेर यकिन नभएकाले अशोकले जेनेटिक एनेलाइसिस गरेर संख्या पत्ता लगाउन खोजेका हुन् ।

अशोबका अनुसार हाती विभिन्त समृहमा हिंह्छन्। भालेपोशी सँगै पनि हिंहछन्। त्यस्तो बेलामा भाले गार्डको रूपमा पछिपछि हुन्छ भने पोशी अधिश्रवि। पोशी आकारमा टूलो पनि हुन्छ। । व्यवाहरू भाले पोशीकी बीचमा लुकेर हिंडेका हुन्छन्। लोनर (हिंस्ड्राल) हिंहने हाती पनि हुन्छन्। पर्सामा लोगर हाती पनि छन्। अध्ययनको अर्को विषय हो— हातीको परम्परागत

अध्ययनका अका विषय हा— हात्ताका परम्परागत वासस्थान रहेको चारवटा ब्लकका हात्तीको माइग्रेसन हुन्छ कि हुँदैन ? 'चारवटा ब्लकका हात्ती एकअर्कामा



हात्ती विभिन्न समृहमा
हिंड्छ्न् । भालेपोथी सँगै पनि
हिंड्छ्न् । त्यस्तो बेलामा भाले
गार्डको रूपमा पछिपछि हुन्छ
भने पोथी अघिअघि । पोथी
आकारमा ठूलो पनि हुन्छ ।
बच्चाहरू भाले-पोथीकै बीचमा
लुकेर हिंडेका हुन्छन् । लोनर
(सिंड्गल) हिंड्ने हात्ती पनि
हुन्छन् । पर्सामा 'लोनर' हात्ती
पनि छन् ।

कनेक्टेड छत् कि छैतन् भनेर पनि हॅरिरहेको छु' उनी भन्छन्। भाषा, कोसीटप्पु आसपास, सर्लाही, पसां निकुञ्जको आसपास, चितवनको माडी उपत्यकासहित मध्यवर्ती क्षेत्र, वाड, वार्दिया निकुञ्जको मध्यवर्ती क्षेत्र, शुक्रवाफोटा निकुञ्जको मध्यवर्ती क्षेत्र हातीबाट मुख्य प्रभावित क्षेत्र हुन्।

ती क्षेत्रमा बसीन हातीले मान्छेको ज्यान लिन्छ। बालीनाली विनाश गर्छ र घर तहसनहस पार्छ। बसीन हातीले गर्न मानवीय क्षेति करित हो यक्ति हुन सकेको छैन। किक्रुज र आरक्षेत्रेत तथा मध्यर्वती क्षेत्रमा भएको क्षेत्रिको विवरण गरिपुय निक्रुज विभागमा उपलब्ध भए पीन पूर्ण छैन। त्यही भएए अशोकले बसीन हुने क्षातिको अवस्थाबार पनि पीएचडी अध्ययनमा समेट्न खोजेका छत्। मिहिन तरिकाले अध्ययन गरेर वार्षिक रूपमा हुने क्षेतिको विवरण निकाल्ने प्रयासमा छु' उनी भन्छन्, 'त्यसले मानव-बन्यजन्तु द्वन्द्वको अवस्था थाहा हुन सक्छ।'

पिछल्ला वर्षमा बन्धजन्तुको आक्रमणबाट ज्यान गुमाउनेको सख्या बहुँ गएको छ। त्यसैलं सत्करलं भक्षी बन्धजन्तुको आक्रमणबाट ज्यान गुमाउने व्यक्तिका परिवारलाई राहतस्वरूप ५० लाख रुपैयों दिने गीतिगत व्यवस्था गरेको छ। यस्तै, घाइते हुने र बाली र घर गोठ क्षति भएका परिवारलाई पनि क्षतिपूर्तिको व्यवस्था गोरिको छ।

अशोकको अध्ययनको अर्को विषय हो— हातीको वासस्थान (हमाविट्याट) कतिको सुर्यक्षत छ ' जनसस्था विस्तारसँगे भएको वन विनाश हातीको परम्परागत वाटो विक्रिल ना भएको छेन, हाती हिन्दुने वाटोमा ठूला सरचना चनेका कारण पनि अवरोध यहूचे छ। 'हातीले आफ्नो वाटो सोचेर निषंक्र आउजाउ गरेको हुन्छ,' अशोक सुनाउँछल, 'तर, मान्छेले रयसैलाई डिस्टर्च गरेको सम्भन्छ। 'पृथ्विच परिचमसम्मे हातीको वासस्थानका वारे अध्ययन गर्ने अशोकको योजना छ। 'हाति पाइने सबै केष कमेल्डेड छेन,' उनी मण्डम, स्वाहिको वामस्तीहिको वामसावसम्म सम्मक् (मार्गा) गराउन सके हातीको वासस्थान वासस्थान सुनेक्षत हुनेछ।'

सलंक्षिको वाग्मतीर्देखे कञ्चनपुरसम्म सञ्चालित तराई भू-परिधि कार्यक्रम (ताल) ले हाती, वाध, गेंडाजस्ता 'ठूला वन्यजन्तु' (मेघा स्मिसिज) को आजजाउ र सख्या विस्तारमा सलयोगी भूमिका खेलेको सरक्षणकर्मीको युभाउ छ । तर, वाग्मतीदेखि भाषासम्म फीलएको वासस्थान खलबालिएकाले कर्निकट्मिटी गाझो छ,' अशोक भन्छन्, हाती प्रजाति तितर्यवतर भएका छन्।'

-अब्दुल्लाह मियाँ

हातीको पिष्ठपिष्ठ

अध्ययनअनुसार नेपालमा जंगली हात्तीको संख्या बढीमा १४५ छ । तर, यो यिकन होइन, अनुमानित संख्या मात्रै हो । पिछल्ला वर्षमा बढेको हात्ती वितण्डा हेर्दा यो संख्या निकै बढेको अनुमान गरिएको छ ।



पादेखि कञ्चनपुरसम्म जंगली हात्ती कित होलान् ? अनि भापाका हात्ती सर्लाही हुँदै पर्सासम्म आउजाउ गर्छन्/गर्दैनन् ? पर्साका हात्ती कोसी र भापासम्म माइग्रेट गर्छन्/गर्दैनन् ? हात्तीले गर्ने मानवीय क्षतिको आँकडा कस्तो छ ?

युवा संरक्षणकर्मी अशोककुमार राम एक वर्षयता यी प्रश्नको उत्तरको खोजीमा तराईका जगलमा भौतारिरहेका छन्। खोजीमा उनी घरी कोसी पुग्छन्, त घरी भाषाका हात्ती प्रभावित क्षेत्र। कहिले बारा, पर्सा, सर्लाहीका जगल घुम्छन् त कहिले चितवन, बर्दिया, शुक्लाफाँटाका लालभाडी र मोहना। यो अध्ययन अबको तीन वर्ष चितरहनेछ।

हात्तीमै विद्यावारिधि गरेका नरेन्द्रमानबाबु प्रधानको सन् २००७ को अध्ययनअनुसार नेपालमा जगली हात्तीको संख्या १०७ देखि १४५ छ। तर, पछिल्ला वर्षमा बढेको मानव-हाती द्वन्द्व र हात्तीको वितण्डा हेर्दा संख्या बढेको अनुमान संरक्षणकर्मीको छ। 'हो, वास्तविक हात्तीको संख्या बढेको छ कि छैन भनेर मैले जेनेटिक (वंशाणुगत) अध्ययन गर्न खोजेको हुँ,' पर्सा निकृञ्जमा सहायक बार्डेन रहेका अशोक भन्छन्, 'एक वर्षयता मेरो अध्ययन जारी छ।'

नेपालमा पूर्वदेखि पश्चिमसम्म हात्तीको चारवटा 'सब पपुलेसन' छ भन्ने बुफाइ छ । ती हुन्— पूर्वमा फापादेखि कोसीसम्म, सर्लाहीदेखि चितवन /पर्सासम्म, दाड, बाँके र बर्दियासम्म र कञ्चनपुरको शुक्लाफाँटा लालफाडी र मोहनासम्म । वाइल्डलाइफ इन्स्टिच्युट अफ इन्डिया, देहरादुनबाट 'इलेफेन्ट इकोलोजी' मा पीएचडी (विद्यावारिधि) गर्दे गरेका अशोकको अध्ययन क्षेत्र



Elephant conservation focused news in national media highlighting the PI's work.

13. Please list all websites, blogs, social media accounts, etc associated with the project, its investigators, and organizations (this includes Facebook, Twitter, Instagram, etc)

I have been connected with face book and research gate which I have listed here below.

https://www.facebook.com/ashok.ram.946

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