

THE ELEPHANT CONSERVATION ACTION PLAN FOR NEPAL

LOGICAL FRAMEWORK APPROACH MATRIX

Narrative summary	Objectively Verifiable Indicator (OVI)	Means of Verification (MOV)	Assumptions
Goal			
<p>Save Asian elephants in the wild from extinction, immediately address habitat loss and mitigate escalating people-elephant conflict in Nepal.</p>	<ul style="list-style-type: none"> • At least current population (107 – 145 individuals) of Asian wild elephant in Nepal maintained • Biological Corridor Connectivity in transborder between Katarniya Wildlife Sanctuary & BNP, Basanta between Dududhua & Kailali Krishnapur, Suklaphanta Wildlife Reserve between Manus India are maintained. • Victims of wild elephant damages are compensated by GoN. • Trans-border cooperation and initiatives between Nepal and India strengthened 	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data • Meeting minutes 	<ul style="list-style-type: none"> • No large scale natural calamities (flood, landslides, epidemics) • Political stability and security situation remain normal • Cooperation of other agencies and people is achieved
Purpose 1			
<p>Determine & monitor status of both resident and migrating wild elephant herds in all Terai districts of Nepal</p>	<p>Population status of resident wild elephant in Nepal and migratory wild elephant herds from India known</p>	<ul style="list-style-type: none"> • Census report • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Output			
<p>Science-based information on the elephant population and their herd dynamics</p>	<p>Seasonal ecological monitoring and study records by trained human resource available</p>	<ul style="list-style-type: none"> • Census report • GIS data • Technical reports • Office reports • Database • Research report • Office records • Monitoring data 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • No limitation of fund

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Activities			
1. Determine population structure, composition and abundance of resident wild elephant herds	<ul style="list-style-type: none"> Maintained central database with population structure, composition and abundance of resident wild elephant Survey and monitoring equipments maintained 	<ul style="list-style-type: none"> Census report Field observation GIS data Technical reports Office reports Computerized database Progress report Research report Office records Monitoring data Meeting minutes Survey schedule 	<ul style="list-style-type: none"> Conservation partners support are available Stakeholders cooperation received Sufficient fund made available
2. Acquire knowledge on elephant landscape and population biology of resident wild elephant herds	Maintained database on elephant landscape & population biology		
3. Collect essential baseline information of migrating wild elephant.	Database about the area requirement, habitat selection and movement pattern of migrating wild elephant & their ecological routes are maintained		
4. Establish a range-wide satellite-tracking program incorporating Nepali and Indian regional experts	<ul style="list-style-type: none"> Maintained satellite-tracking records A joint committee between Nepal and India for satellite-tracking program formed Strengthen Central level, regional level and field level trans-border co-operation 		
Purpose 2			
Identify and maintain all critical forest corridors (protection forest, production forest, community forest and collaborative managed forest) used by both resident and migratory herds in all Terai districts	<ul style="list-style-type: none"> No decrease of suitable habitat for wild elephant with respect to baseline of 2007 (10,982.2 Km²) No increase of non-forest area with respect to baseline of 2007 (19,205.4 Km²) 	<ul style="list-style-type: none"> Field observation GIS data Technical reports Office reports Database Progress report Research report Office records Monitoring data Meeting minutes 	<ul style="list-style-type: none"> Conservation partners support made available Stakeholders cooperation is received Fund is made available
Outputs			
Strict maintenance of district-level elephant habitats and corridors that are identified and protected to prevent elephants from gaining access to crops, loss of life and property damages	Improved condition of all critical forest corridors under effective management (protection forest, production forest, BZ, community forest, leasehold forestry & collaborative forest)	<ul style="list-style-type: none"> Field observation GIS data Technical reports Office reports Database Progress report 	<ul style="list-style-type: none"> Conservation partners support is available Stakeholders cooperation is received Fund is available

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		<ul style="list-style-type: none"> • Research report • Office records • Monitoring data • Meeting minutes 	
Activities			
1. Define and collect detail information about the potential forest corridors of wild elephant range	Maintained database about the elephant ranging potential forest corridors of 19 districts	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data • Meeting minutes • Survey schedule 	<ul style="list-style-type: none"> • Support from conservation partners are made available • Stakeholders cooperation is received • Fund is available
2. Identify & prepare critical habitat and corridor maps for each district where elephant range	Maintained verified satellite based GIS maps for each district	<ul style="list-style-type: none"> • Field observation • GIS data • Technical reports • Database • Research report • Office records 	<ul style="list-style-type: none"> • Support from conservation partners are made available • Stakeholders cooperation is received • Fund is available
3. Develop district level strategic management intervention work plans for wild elephants	Formulated and implemented district level strategic management intervention work plans for wild elephant under DFO/NP/WR	<ul style="list-style-type: none"> • Field observation • Office reports • Progress report • Office records • Monitoring data • Meeting minutes • Work plan 	<ul style="list-style-type: none"> • Support from conservation partners are made available • Stakeholders cooperation is received • Fund is available
4. Upgrade habitat and corridor maps at district level	<ul style="list-style-type: none"> • Implemented bi-annual habitat monitoring schedule • Maintained ground-truthing data of 19 districts 	<ul style="list-style-type: none"> • Field observation • GIS data • Technical reports • Office reports • Database • Progress report 	<ul style="list-style-type: none"> • Support from conservation partners are made available • Stakeholders cooperation is received • Fund is available

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		<ul style="list-style-type: none"> • Research report • Office records • Monitoring data • Meeting minutes • Survey schedule 	
<p>5. Monitor annual elephant movements in all PAs where elephant occurs</p> <ul style="list-style-type: none"> • Conduct spatio-temporal analysis • Address elephant related issues through a five year management plan. 	<ul style="list-style-type: none"> • Maintained database of elephant movement • Prepared five year management plan addressing elephant related issues 	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Office reports • Database • Research report • Office records • Monitoring data • Management plan 	<ul style="list-style-type: none"> • Support from conservation partners are made available • Stakeholders cooperation is received • Fund is available

Purpose 3			
<p>Conserve elephants by reducing people–elephant conflict. through best viable measures</p>	<p>Behavioral shift of the elephant and human</p>	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Outputs			
<p>A combination of methods with emphasis on electric fence to protect crops and homes, coupled with compensation scheme as statutory, alleviate grievances of resident communities. Awareness is created where a win-win situation is possible for both people and elephants</p>	<ul style="list-style-type: none"> • 10% reduce in crop raiding by wild elephant with respect to baseline of 2007 • 10% reduce in household damage & human casualties from wild elephant with respect to baseline of 2007 • 10% decrease in grievances of resident communities about wild elephant with respect to baseline of 2007 • The cropping pattern in the villages changed 	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available

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		<ul style="list-style-type: none"> • Monitoring data • Meeting minutes 	
Activities			
1. Availability of fund and timely revision of Wildlife relief guideline of GoN	District level committees to pay relief formulated	<ul style="list-style-type: none"> • Office reports • Database • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
2. Review and update the effectiveness of compensation modality	Frequency of review meetings and discussion	<ul style="list-style-type: none"> • Field observation • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
3. Encourage resident communities for electric fencing <ul style="list-style-type: none"> • Provide technical assistance • Form community-based electric fence maintenance committee on cost sharing basis 	<ul style="list-style-type: none"> • Km. of electric fence completed • XX number of functional community-based electric fence maintenance committee (under DFO/NP/WR) formed 	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records • Meeting minutes • Financial report 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
4. Develop a contingency plan, incorporating a clear policy guide lines, to contain large herds	A contingency plan aided by a team of experts in handling large herds of wild elephants formulated	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes • Contingency plan 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
5. Conduct a biannual, national-level workshop to district level stakeholders in updating them in new technology that can help in saving their crops from elephants and share experiences	<ul style="list-style-type: none"> • Frequency of meeting, discussion, workshop and number of participants increased in comparison to baseline of 2007 • Minutes of meeting and discussion 	<ul style="list-style-type: none"> • Field observation • Office reports • Database • Progress report • Office records • Meeting minutes • Proceedings 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available

Purpose 4

Narrative summary	Objectively Verifiable Indicator (OVI)	Means of Verification (MOV)	Assumptions
Maintain viable populations of captive/domestic elephants by continuing breeding captive females with free ranging males to enhance heterozygosity in domestic progeny to benefit tourism and conservation education	Breeding of captive female elephants with free ranging wild male increased	<ul style="list-style-type: none"> • Office reports • Progress report • Technical report • Office records 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Outputs			
Captive population is sustained and domestication of elephants is enhanced.	<ul style="list-style-type: none"> • 20 individuals of captive population increased • 10 individuals number of domesticated calf from captive mother elephants increased 	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records • Monitoring data 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Activities			
1. Maintain and enhance the female elephant breeding output in Hattisar of Nepal	<ul style="list-style-type: none"> • Management guidelines for the breeding elephants & elephant handlers prepared & implemented • Frequency of training organized for the animal handlers increased by 20% • Frequency of health check-up record of animal handlers increased by 10% • Survival rate of calf increased by 5% with respect to baseline of 2007 (93%) 	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records • Training schedule 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
2. Improve health care and management of all female captive elephants	<ul style="list-style-type: none"> • Frequency of health check-up schedule increased by 10% • Maintained health check-up records of the captive elephant 	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
3. Acquire science-based knowledge about population viability	Maintained birth- and death-rate database	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
4. Acquire science-based knowledge about elephant- forest dynamics	Maintained database about captive elephant and forest dynamics	<ul style="list-style-type: none"> • Census report • Field observation 	<ul style="list-style-type: none"> • Conservation partners support is available

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		<ul style="list-style-type: none"> • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data • Survey schedule 	<ul style="list-style-type: none"> • Stakeholders cooperation is received • Fund is available
<p>5. Establish a haathisaar (elephant stable) for all privately owned elephants in Sauraha</p>	<ul style="list-style-type: none"> • 10% reeducation in household damages by the wild male • Improved elephant health and welfare • Generated revenue from the visitors 	<ul style="list-style-type: none"> • Field observation • Technical reports • Office reports • Database • Progress report • Office records • Monitoring data • Financial report 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available

Purpose 5			
<p>Establish and strengthen a functional modality at local and central levels, between concerned agencies of India and Nepal, using existing bilateral cooperation, MIKE (Monitoring the Illegal Killing of Elephants) and CITES (Convention on International Trade in Endangered Species of wild Flora and Fauna) to address cross border elephant issues and dialogues and recommended solutions</p>	<ul style="list-style-type: none"> • 1 National level, 5 regional and 4 field level trans-border meetings held each year 	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Outputs			
<p>Wild elephants are protected through bi-lateral cooperation between Nepal and India</p>	<p>Current population (107-145) of wild elephant in Nepal maintained</p>	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available

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		<ul style="list-style-type: none"> • Research report • Office records • Monitoring data • Meeting minutes • Survey schedule 	
Activities			
<p>1. Advance current knowledge about Asian wild elephant (both resident & migratory) landscape ecology and population biology</p>	<ul style="list-style-type: none"> • Formation of a functional bilateral elephant expert team • Maintained regular monitoring schedules for wild elephant • Maintained database 	<ul style="list-style-type: none"> • Census report • Field observation • GIS data • Technical reports • Office reports • Database • Progress report • Research report • Office records • Monitoring data • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
<p>2. Use the MIKE as platform to conduct cross border elephant dialogues</p>	<p>Joint regular trans-boundary efforts (meetings, information sharing, corresponding letters) increased</p>	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Purpose 6			
<p>Build a greater and effective partnership between rural communities concerned government line agencies and conservation organizations to provide continual support to people and protect elephants</p>	<p>Annually 4 central level meetings with line agencies to discuss the elephant issue</p>	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Outputs			
<p>A multi stakeholder committee is in place to implement the elephant action plan</p>	<p>A committee with multiple stakeholder formulated</p>	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
Activities			

Narrative summary	Objectively Verifiable Indicator (OVI)	Means of Verification (MOV)	Assumptions
1. Form ECAP (Elephant Conservation Action Plan) committee incorporating all line organization	ECAP committee with incorporating concerned stakeholders formed	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Meeting minutes 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
2. Provide action plan assignments for interested institution	Annually 10 contracts provided for institutions working for elephant conservation	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Contracts 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available
3. Monitor the activities of action plan assignment	Maintained monitoring schedule and reports	<ul style="list-style-type: none"> • Office reports • Progress report • Office records • Monitoring schedule 	<ul style="list-style-type: none"> • Conservation partners support is available • Stakeholders cooperation is received • Fund is available