

ANNEX 1. LOGICAL MATRIX OF ACTIONS, IMPLEMENTING AGENCIES, INDICATORS, AND TIMELINES

Objectives	Interventions	Leading agency	Collaborative agency	Indicator	Means of verification	Year				
						1	2	3	4	5
OBJECTIVE 1.	Protection and rehabilitation of forest - to guarantee sufficient volume of water with low sediment load, flowing into or from the Nam Theun 2 Reservoir by protection and rehabilitation of forest areas in the Nam Theun 2 Watershed Area									
Outcome 1.1.	Forest Forest cover and riparian habitats stabilized and maintained									
Output 1.1.1	Forest Cover/riparian habitats Stabilized forest cover/riparian habitats across the NT2 watershed area.			- Forest cover map - Riparian vegetation map	- Reports on forest cover and land use mapping every 5 years, using aerial and satellite photo analysis associated with ground truth survey					
<i>Activity 1.1.1.1</i>	Review un-stocked forest area and riparian habitats to study potential forest rehabilitation using both satellite image and ground survey	WMPA	DAFOs of 4 districts	- Map of un-stock forest - Map of riparian habitats	- Reports with maps on forest cover/riparian vegetation - Analytic tools	X				
<i>Activity 1.1.1.2</i>	Finalize maps of forest categories and land use types	WMPA		- Map of forest and land use types	- Analytical tools, equipments, satellite images	X				
<i>Activity 1.1.1.3</i>	Enhance management regeneration of native trees along river banks	DAFO	Villagers, WMPA	- Number of seedlings provided - Area to be planted	- Village agreement - Reports	X	X	X	X	X
Outcome 1.2.	Land Use Protection of habitats, species and people's livelihoods									
Output 1.2.1	NPA Village Footprints NPA village boundaries, land use patterns and agreements developed and approved									
<i>Activity 1.2.1.1</i>	Review baseline land use, socio-economic, land management agreements, land data analysis (A user friendly baseline data collection form including both livelihood and conservation dimension is applied)	WMPA	DAFO, LMA	- Map of land use type - Land agreements & land data - baseline data base system is developed and can continuously update - The related baseline data in all 31 villages and 4 PIZ villages are completed	- Report with maps on land use patterns	X				

<i>Activity 1.2.1.2</i>	Review land allocation and parcel measurement , and certification, ratification for 31 villages inside NPA	DAFO	LMA, WMPA	- Number of households allocated land -31 villages completed	- Report of activities - Tools	X				
<i>Activity 1.2.1.3</i>	Finalize agreements/regulations with villagers on sustainable management of lands	DAFO	LMA, WMPA	- Number of village's agreement approved by district	- Consultation workshop - Reports of activities	X				
<i>Activity 1.2.1.4</i>	Update boundary demarcation of LUP/LA, Village using permanent signs	DAFO	WMPA	- 31 village LUP/LA completed	- Reports of activities - Materials	X	X			
<i>Activity 1.2.1.5</i>	Monitoring of land use and data analysis	DAFO	LMA, WMPA	- Data on land use is updated annually	- Report of village land use	X	X	X	X	X
Output 1.2.2	PIZ Village Footprint PIZ village boundaries, land use patterns and agreements developed and approved									
<i>Activity 1.2.2.1</i>	Review of 14 LUP/LA, certificates, agreements in 14 villages	DAFO	LMA, WMPA	- Number of certificates - Number of agreements	- Reports of activities	X				
<i>Activity 1.2.2.2</i>	Continue village consultation, LUP, and boundary demarcation (forest and land use patterns), land allocation, certificate and ratification of land use agreements in 28 villages	DAFO	LMA, WMPA	- Maps of village boundary and land use patterns	- Reports of activities - Tools - Sign boards in village		X	X	X	X
<i>Activity 1.2.2.3</i>	Develop village forest and land use management agreements/regulations	DAFO	LMA, WMPA	- Agreements drafted in all villages and some PIZ villages	- Reports and tools		X	X	X	X
<i>Activity 1.2.2.4</i>	Following up land use and compilation for further land allocation	WMPA	VCMU	- Land use data	- Reports		X	X	X	X
Output 1.2.3	Zoning System The NPA zoning following the forestry law 2007, TPZ and CUZ developed and approved.									
<i>Activity 1.2.3.1</i>	Compilation of the baseline socio-economic, biodiversity (areas of priority fauna and flora biodiversity importance), forest cover and land-use data	WMPA	DAFO, LMA	- Baseline data - Database - Maps of wildlife, land use and wildlife	- Reports of results - Maps of wildlife distribution, habitats, and land use	X				
<i>Activity 1.2.3.2</i>	Delineate Control Use Zones (CUZ) and Totally Protected Zone (TPZ) using GIS	WMPA	DAFO	- Map of CUZ vs TPA	- Reports - Analysis tools	X				
<i>Activity 1.2.3.3</i>	Consultation with local villagers and other stakeholders on TPZ and CUZ	DAFO	WMPA, LMA, Villagers	- Village agreements approved by village and cluster leaders	- Consultation workshops - Number of villages visited and consulted	X				
<i>Activity 1.2.3.4</i>	Develop agreements/regulations on management of TPZ and CUZ	DAFO	WMPA, Villagers, Local leaders	- Regulations made and approved by village and district authorities	- Village meetings, legislative materials		X			

<i>Activity 1.2.3.5</i>	Ratification of Zoning Agreement by provincial government	WMPA	DAFO, LMA	- Agreement approved by government	- Consultation workshops		X			
<i>Activity 1.2.3.6</i>	Participatory boundary demarcation of CUZ and TPZ's	DAFO	LMA, Police, Military,	- #s sign set up - #s villages	- Report, maps, tools, pictures			X	X	X
<i>Activity 1.2.3.7</i>	Identification and boundary demarcation of land use management zones for three clusters (3 Clusters)	DAFO	WMPA,	- Map of cluster's management zones - #s of signs demarcated	- Reports, maps - Consultation meetings	X				
<i>Activity 1.2.3.8</i>	Complete boundary demarcation of NPA and the Watershed	WMPA	DAFO, RMS, VCMU, LMA,	- #s of boundary signs - Map of sign posts	- Reports of activities - Village agreements	X				
Outcome 1.3.	Monitoring Protection and Rehabilitation of Forest Areas Verification that forest cover and land use activities are in agreement with land designations									
Output 1.3.1	Monitoring Forest Cover Methods for measuring and assessing forest cover established									
<i>Activity 1.3.1.1</i>	Review and mapping of forest covers using aerial photos and satellite image	WMPA (FLUPAM)	DAFO, NFIC	- Map for forest cover - # of plots	- Reports with maps on forest cover - Analytic tools	X				X
<i>Activity 1.3.1.2</i>	Field/forest verification/forest inventory (Permanent sample plots)	WMPA	DAFO, NFIC	- Map of forest categories, land-use types	- Reports/maps on forest cover, and types		X			X
<i>Activity 1.3.1.3</i>	Develop guidelines and train WMPA staff for measuring and assessing forest cover	WMPA	DAFO, NFIC	- A manual	- Methods, tools - Books printed		X			
Output 1.3.2	Monitoring Land Use Methods for measuring, verifying and assessing changes in land use patterns, based on LUP regulations and agreements set up									
<i>Activity 1.3.2.1</i>	Develop monitoring guidelines for tracking changes in forest and land use	WMPA	DAFO	- Monitoring manual of measuring changes in land use pattern	- Methods, tools	X				
<i>Activity 1.3.2.2</i>	Develop monitoring database for storing forest and land use data	WMPA	DAFO	- Database set up	- Guidelines or manual	X	X			
<i>Activity 1.3.2.3</i>	Field visit or forest walk to develop base maps of village and surrounding agricultural lands and forest land	WMPA	DAFO, Village	- Base maps of village agricultural and forest lands	- Reports of activities - Analytical tools	X	X	X	X	
OBJECTIVE 2.	Conservation of Biodiversity - <i>to preserve, and protect the natural biodiversity system and facilitate the maintenance and increase in naturally occupied populations of plants and animals in the Nakai- Nam Theun National Protected Area and Nam Theun 2 Watershed Area, particularly the conservation or multiplication of habitat of rare, endangered or near extinct wild life species</i>									
Outcome 2.1.	Diversity of wildlife species – numbers, abundance and distribution maintained									

Output 2.1.1	Wildlife Populations: Populations of key species and endangered species occurrence, abundance and distribution maintained									
<i>Activity 2.1.1.1</i>	Review and refine a biodiversity database – collate and organize the previously collected data, and enter data into the database	WMPA	DAFO, VCMU	- Database updated	- Data entry into database - Reports of activities - Tools	X				
<i>Activity 2.1.1.2</i>	Analyze the previously collected wildlife data to assess and map species occurrence, abundance and distribution	WMPA	DAFO	- Data analysis - Maps of species occurrence, abundance and distribution	- Reports of results - Analytical tools	X				
<i>Activity 2.1.1.3</i>	Conduct wildlife surveys using camera traps in the focused priority high biodiversity forest areas to enhance the effective foot patrols	VCMUs	WMPA, DAFO	- Photos of wildlife - Photos of poachers	- Reports of activities - Mapping of camera sites - Equipments, tools	X	X	X	X	X
<i>Activity 2.1.1.4</i>	Conduct specific species surveys to assess their occurrence, abundance and distribution of key species, e.g. Saola, Douc langur, other primates, gaur, elephants, giant muntjac, hornbills, carnivores	WMPA	VCMUs, NUOL, research institutes	- Maps of species occurrence and distribution	- Research protocol, equipments - Report of results		X	X	X	
<i>Activity 2.1.1.5</i>	Design/conduct a sound-science field research program focusing on key species, e.g., Saola or Douc langur, gibbons, hornbills.	WMPA	NUOL, Research Institutes, NGOs	- # key species being studied - Research protocols	- Reports of activities - Equipments - Analytical tools		X	X	X	X
<i>Activity 2.1.1.6</i>	Design/conduct research on species commonly consumed by villagers, and develop sustainable off take levels	WMPA	NUOL, Research Institutes, NGOs	- List of species being consumed by villagers	- Reports of activities/results - Research protocols - Analytical tools			X	X	X
Output 2.1.2	Flora populations: Flora species occurrence, range and abundance maintained									
<i>Activity 2.1.2.1</i>	Compile/develop a flora biodiversity database to store the previously collected data and newly added data	WMPA		- Database	- Data set	X	X			
<i>Activity 2.1.2.2</i>	Research and surveys to catalogue all the plant species occurring in the NPA	WMPA	NUOL	- A checklist/manual	- Plant species list		X	X		
<i>Activity 2.1.2.3</i>	Develop a checklist of plants, NTFPs in NPA	WMPA	NUOL	- List of plants used by villagers	- Reports, materials, equipments - Methods			X	X	
<i>Activity 2.1.2.4</i>	Flora specimen collection and restoration	WMPA	NUOL	- #s of specimens collected	- materials, equipments - Methods		X	X		
Output 2.1.3	Habitats Key habitats in type, extent and quality maintained									

<i>Activity 2.1.3.1</i>	Research to identify and classify habitat types across the NPA and TN2 Watershed	WMPA	NUOL, Research Institutes, NGOs FOS, FOF	- Map of habitat types	- Reports - Analytical tools		X			
<i>Activity 2.1.3.2</i>	Identify priority areas important for key wildlife, reptile and amphibian, and plant species	WMPA		- Maps of priority habitats	- Reports - Analytical tools		X			
<i>Activity 2.1.3.3</i>	Habitat improvement and restoration for wildlife species, e.g. elephants, birds such as artificial wetlands, saltlicks.	NTPC	WMPA	- Wetlands, saltlicks created	- Reports of activities		X	X	X	X
Outcome 2.2	Watershed Values Fish stocks and species distribution preserved and water quality and flows from catchments, streams and rivers at acceptable levels									
Output 2.2.1	Aquatic life Aquatic life stocks and species distribution maintained									
<i>Activity 2.2.1.1</i>	Research to identify species of aquatic life in the upstream	WMPA	NTPC, VCMU	- List of aquatic life species	- Reports - Survey techniques, protocols and tools - Specimens			X		
<i>Activity 2.2.1.2</i>	Research to identify aquatic life species consumed or caught by villagers	WMPA	NTPC, VCMU	- List of aquatic life species caught by villagers	- Village fish catch survey report			X		
<i>Activity 2.2.1.3</i>	Establish village aquatic life conservation reservoirs upstream	WMPA	DAFO, VCMU	- # aquatic life conservation reservoirs established	- Village consultation - Village agreement		X	X	X	
<i>Activity 2.2.1.4</i>	Develop Agreements/regulations regarding upstream aquatic life conservation	WMPA	DAFO, VCMU	- Village regulations on fish conservation	- Participatory tools, manuals - Approval by village		X	X	X	
Output 2.2.2	Streams/Rivers Stream/river flow, sediment load and water quality maintained at recognized acceptable levels									
<i>Activity 2.2.2.1</i>	Conduct hydrological studies in NT 2 reservoir	NTPC		Findings from NTEC hydrological studies	- Hydrological study reports	X	X	X	X	X
<i>Activity 2.2.2.2</i>	Monitoring of water quality in the watershed	NTPC		- Monitoring data	- Report	X	X	X	X	X
<i>Activity 2.2.2.3</i>	Weed control in NT2 reservoir	NTPC		- Monitoring data	- Report	X	X	X	X	X
<i>Activity 2.2.2.4</i>	Monitoring and control of invasive species	NTPC		- Monitoring data	- Report	X	X	X	X	X
<i>Activity 2.2.2.5</i>	Monitoring of ecological change in reservoir	NTPC		- Monitoring data	- Report	X	X	X	X	X

Output 2.2.3	Riparian vegetation Riparian vegetation areas maintained and sustainably managed.									
<i>Activity 2.2.3.1</i>	Establish baseline riparian vegetation areas in the NT2 watershed using satellite imagery and ground truth surveys	WMPA	DAFO	- Map of riparian vegetation areas and types	- Reports of studies - Analytical tools including methods, photos, satellite images			X		
<i>Activity 2.2.3.2</i>	Designation of buffer zones and establishment of riparian vegetation areas to ensure protection of riparian habitats	DAFO	WMPA	- #s of designated areas	- LUP reports and agreements			X		
<i>Activity 2.2.3.3</i>	Enhance regeneration and sustainable use of riparian areas by participatory zoning, regulation development and enforcement	DAFO	WMPA	- Regulation on riparian use - Signs for demarcation	- Maps	X	X	X	X	X
Output 2.2.4	Land (water) Use Zoning Critical watershed areas identified and zoned accordingly									
<i>Activity 2.2.4.1</i>	Review special conservation areas for biodiversity conservation	WMPA	NTPC, DAFOs, RMS	- #s of critical area identified and mapped	- Reports of surveys	X				
<i>Activity 2.2.4.2</i>	Zoning and boundary demarcation of special conservation areas	WMPA	NTPC, DAFOs, LMA, RMS	- #s of zones established, demarcated and mapped	- Zoning documents - Zoning agreements	X				
<i>Activity 2.2.4.3</i>	Zoning and demarcation between NT2 reservoir and NPA	WMPA	NTPC, RMS	- NPA boundary demarcation	- Maps on NPA and reservoir boundaries - Zoning and boundary demarcation agreements	X				
<i>Activity 2.2.4.4</i>	Develop regulations/agreements on protection and sustainable management of critical watershed areas	WMPA	DAFO, VCMU, RMS	-Regulation/agreement approved	- Participatory workshops	X				
Outcome 2.3.	NPA Protection Management Effective participatory protection management of the NPA and NT2 Watershed									
Output 2.3.1	Conservation Outreach Increased awareness of laws, regulations for both local communities and government staff									
<i>Activity 2.3.1.1</i>	Establish and train village outreach units to design, deliver, and evaluate the effectiveness of outreach activities	WMPA	Education office (teachers), District offices, Village authorities	- #s of village members trained	- Training materials and manuals - Training workshops	X				

<i>Activity 2.3.1.2</i>	Compile laws and relevant regulations, produce and distribute conservation materials (e.g., sign boards, t-shirt, poster, story books, stickers, local story etc.), and WMPA publication (e.g. newlines)	WMPA	DAFO, VCMU	- Education materials produced - #s of audience received materials	- List of materials - Manuals	X				
<i>Activity 2.3.1.3</i>	Conduct a series of conservation awareness campaigns in target villages both inside/outside NPAs to disseminate national laws and regulations	WMPA	DAFO, VCMU	- #s of target villages - #s of audiences	- Education materials - Reports of activities	X	X	X	X	X
<i>Activity 2.3.1.4</i>	Conduct outreach activities to raise awareness of NPA and the watershed and regulations for district offices	DAFO	WMPA	- #s of offices visited	- Education materials - Reports of activities	X	X	X	X	X
Output 2.3.2	Law Enforcement Improved patrolling regimes to increase effectiveness of law enforcement with the involvement of villagers									
<i>Activity 2.3.2.1</i>	Set up/empower PA management committees (PAMC) at village levels by integrating PA management into village organization framework, and improving PA regulations	WMPA	DAFO, police, military, VCMU, Village heads	- PAMC for each Khet established -Approved regulations	- Village agreements approved by headmen, DAFO, district governor - Regulations approved by headman, DAFO, district governor and WMPA - Village meetings/consultation	X				
<i>Activity 2.3.2.2</i>	Strengthen enforcement teams to conduct forest routine/responsive ground patrols through increased team members, provided uniforms, and increased patrolling efforts	DAFO	Military, police, VCMU, Village heads, WMPA	- #s of patrol staff - Uniforms provided - patrols efforts (days, km) conducted - #s of people apprehended	- Village agreements - Patrol report - MIST report	X	X	X	X	X
<i>Activity 2.3.2.3</i>	Increase/operate checkpoints at key entrance, both on land and water, and each is recruited by a number of staff including local villagers, to control people enter the NPA and stop immigration into the Watershed villages	DAFO	VCMU, military, police, WMPA, Village heads	- Checkpoints set up - #s of staff including villagers - Patrol efforts (days) - #s of people checked	- District agreements - Patrol reports - MIST records	X				
<i>Activity 2.3.2.4</i>	Provide formal training for village authorities on law/regulation and enforcement techniques	DAFO	VCMU, military, police, WMPA	- #s of trained staff including villagers - #s of VCMU members	- Training manuals - Training reports	X				

<i>Activity 2.3.2.5</i>	Establish informant networks to restrain and control illegal trade on wildlife, timbers and NTFP	DAFO	VCMU, POFI, Military, Police	#s of informants identified	- Reports of illegal activities - #s of illegal activities caught	X	X			
<i>Activity 2.3.2.6</i>	Establish and train mobile patrol teams to control access and respond to reports of illegal activities in the watershed and PIZ	DAFO,	WMPA, police, military, VCMU, commerce, POFI	- Patrol efforts (days) conducted - #s of people caught	- Patrolling reports - MIST reports	X				
<i>Activity 2.3.2.7</i>	Support the Justice Office to establish the forest/wildlife court to deal with illegal activities at Nakai district	District Justice Office	Justice, DOFI, POFI, DAFO	- A court office set up	- Governor's agreement/decree	X	X	X	X	X
<i>Activity 2.3.2.8</i>	Following up the village law enforcement to ensure effective and proper prosecution	WMPA	DAFO	-#s of illegal cases persecuted	- Infringement reports - VCMU agreements	X	X	X	X	X
<i>Activity 2.3.2.9</i>	Workshops with stakeholders to strengthen coordinate between enforcement agencies at district and provincial levels to stop illegal trafficking of wildlife, timbers and NTFPs	WMPA	POFI, DOFI	- Enforcement teams established - Agreements made	- Patrolling reports - MIST reports	X	X	X	X	X
<i>Activity 2.3.2.10</i>	Workshops with Vietnam to strengthen cooperation, coordination and the local capacity in control of border crossings to reduce illegal cross-border trade in wildlife, NTFPs, and other resources	WMPA	POFI, DOFI, Police, Military	- Agreements made	- Workshops	X	X	X	X	X
Output 2.3.3	Threats Improve threat detection and removal methods established and operational									
<i>Activity 2.3.3.1</i>	Design and implement the strategic anti-poaching patrol of key forest sites to increase effective law enforcement	WMPA	DAFO, VCMUs	- Priority forest areas identified - # of incidents/ unit effort is tracked	- Patrol protocols - Patrol report - MIST report - Maps of patrolling areas	X	X	X	X	X
<i>Activity 2.3.3.2</i>	Improve enforcement and threat monitoring system using MIST program to provide monthly feedback to improve management interventions	WMPA	Consultants	- MIST program operated - Trained MIST staff	- MIST reports	X	X	X	X	X
<i>Activity 2.3.3.3</i>	Strict control of selling and using modern tools (i.e., chain saw) and weapons (i.e., metal traps, snares) for cutting timbers and poaching wildlife in NT2 watershed.	DOFI	DAFO, Police, military, VCMU, commerce	- #s of tools and weapons confiscated	- District agreement - Warning records	X	X	X	X	X
<i>Activity 2.3.3.4</i>	Develop an incentive system to award good performance of threat detection and removal	WMPA	DAFO, VCMU	- A seedling fund	- Village, district agreements - Guidelines	X	X	X	X	X

Output 2.3.4	NPA Mgt tools Best practices established in NPA management and lessons learned shared									
<i>Activity 2.3.4.1</i>	Develop a manual on best practices and lessons learned of PA management for staff and villages (i.e., outreach, enforcement, land-use planning, livelihood, and monitoring)	WMPA	DAFO, VCMU	- Manuals printed	- Materials, reports			X	X	X
<i>Activity 2.3.4.2</i>	Develop WMPA' website to disseminate and share experiences	WMPA	Consultant	- Website activated	- online information	X	X	X	X	X
<i>Activity 2.3.4.2</i>	Develop a natural history of NNT	WMPA	Consultants	- A book of natural history	- Wildlife biodiversity and habitat list and description	X	X	X	X	X
Outcome 2.4	Stakeholders Stakeholders are actively and fully involved in management and protection of the NPA									
Output 2.4.1	Technical Support TA support improves operational management activities of the NPA									
<i>Activity 2.4.1.1</i>	Recruit short-term TA to supervise protected area management interventions and monitoring	WMPA	WB	- Qualified TA	- TOR, contract	X				
<i>Activity 2.4.1.2</i>	TA produce guidelines and manuals of conservation interventions for all staff and villagers	WMPA	Consultants	- Manuals, guidelines produced	- Tools, documents	X				
<i>Activity 2.4.1.3</i>	TA reviews and updates training tools and provide training to staff and villagers if necessary	WMPA	Consultants	- Training tools - #s of trained staff	- Training reports - Training materials - Training topics	X	X	X	X	X
Output 2.4.2	Implementing Agencies Improved performance by implementing partners in the planning, implementation, monitoring and management of activities									
<i>Activity 2.4.2.1</i>	Review and assess training needs for all implementing partners	WMPA	DAFO	- List of training needs	- Reports - Assessment approach - Assessment forms	X	X	X	X	X
<i>Activity 2.4.2.2</i>	Support technical training for staff of relevant agencies to increase awareness of PA management using PICAD approaches	WMPA	DAFO	- Training workshops - #s of trained staff	- Training manuals - Training reports	X				
<i>Activity 2.4.2.3</i>	Support partners to integrate PA management as a priority agenda into institutional framework	WMPA	District governs. agencies	- #s of agencies	- District agreements	X				

<i>Activity 2.4.2.4</i>	Support partners to assist in monitoring and assessment of project success and progress toward to objectives and goals (a quarterly meeting is needed)	WMPA	POE, IMA, IFT's, NTPC	- Feedback reports - #s of field visits	- Annual Program Assessment Reports WMPA, POE, IMA, IFT's, NTPC	X	X	X	X	X
<i>Activity 2.4.2.5</i>	Study tour abroad to countries where PICAD is taken place, e.g. Latin America	WMPA	WB, NTPC	- #s of staff take - Visited site	- Reports of field trip and lessons learned				X	
<i>Activity 2.4.2.6</i>	Setup Micro Watershed Management Offices	WMPA	WB, NTPC	- #s of Micro Watershed Management Offices	- Activity Reports - Progress Reports	X				
Output 2.4.3	Tans-boundary enforcement coordination Improved cooperation and coordination on enforcement activities, threat reduction and sharing of information									
<i>Activity 2.4.3.1</i>	Convene trans-boundary workshops with Vietnam at national and local levels to develop strategies for trans-boundary collaboration to control illegal trades in wildlife and other forest products between Laos and Vietnam.	WMPA	POFI, DAFO, PAFO, Police, Military, Customs	- #s of national and local workshops held - #s of high decision makers attended - Enforcement strategies developed	- Meeting reports - List of participants and topics for discussion - #s of staff from enforcement agencies		X			
<i>Activity 2.4.3.2</i>	Visit and exchange to strengthen trans-boundary coordination and cooperation with Vietnam, particularly at province and district levels, to restrain and control of incursion of Vietnamese and illegal activities.	WMPA	POFI, DOFI, Police, Military, WMPA	- #s of exchange visits - #s of workshops - #s of illegal activities reduced	- Meeting agreements - Agreements on legal persecution	X	X	X	X	X
<i>Activity 2.4.3.3</i>	Set up permanent checkpoints at key entrance to continuously control illegal immigration	POFI	DAFO, police, military, WMPA	- # checkpoints set up along borders	- National/provincial agreements - Numbers of staff recruited in checkpoints	X				
<i>Activity 2.4.3.4</i>	Establish and support special law enforcement units to tackle international wildlife crime and illegal activities in NPA.	POFI	DAFO, police, military, WMPA	- Special enforcement teams set up	- Patrol reports - Infringement reports	X	X	X	X	X
Output 2.4.4	International relations and information exchange Improved interaction and exchange of information about NPA management, species protection and research internationally									
<i>Activity 2.4.4.1</i>	Support staff to attend international meetings to present information regarding PA management interventions, biodiversity and biodiversity conservation	WMPA		- #s of staff attended international meetings	- Presentations - Reports of meeting	X	X	X	X	X

<i>Activity 2.4.4.2</i>	Support publication of information on natural history, biodiversity values, and other special features at international journals and on TVs	WMPA		-Approved publications	- Topics publically published on medial or journals	X		X	X	X
<i>Activity 2.4.4.3</i>	Publish data and information on website	WMPA		- #s of issues published	- Information availability on website	X		X	X	X
Outcome 2.5	Monitoring Conservation of Bio-diversity Verification of reduction in threats and evidence of maintenance of bio-diversity, key and rare species by NPA management agencies and villagers									
Output 2.5.1	Research Monitoring Increased #s of agencies and institutions conducting monitoring research and using external resources to accomplish this									
<i>Activity 2.5.1.1</i>	Review and refine a biodiversity database – collate, organize and analyze the previously collected data to generate baseline data	WMPA	Consultants/villagers	- Clean database	- Data set of field surveys	X				
<i>Activity 2.5.1.2</i>	Annual survey data analysis and presentation of results for designing and adapting management strategies	WMPA	Consultants/villagers	- Monitoring results	- Annual wildlife survey reports	X	X	X	X	X
<i>Activity 2.5.1.3</i>	Contact and coordinate with international NGOs, Research Institutes and individuals interested in biodiversity research in NPA/NT2 Watershed area	WMPA	WB, NTPC	- #s of research institutions conducting	- Contracts, agreements, TOR	X	X	X	X	X
Output 2.5.2	Monitoring Bio-diversity Protection Verification that the preservation, and protection of the bio-diversity, particularly key species and rare habitats is occurring as per the approved SEMFOP and AWPB									
<i>Activity 2.5.2.1</i>	Re-establish and review MIST operation to monitor enforcement efforts, levels of threats, and key species occurrence and distribution	WMPA		- MIST operated	- Staff assigned and trained to work on MIST - MIST reports	X				
<i>Activity 2.5.2.2</i>	Monthly MIST data analysis to provide feedback for adapting monthly enforcement strategies and other conservation interventions.	WMPA		- Patrol efforts - Threat levels	- MIST reports	X	X	X	X	X
<i>Activity 2.5.2.3</i>	Ground-truth walk into the key forest areas by experts to have a feel about threats	WMPA	POE, IMA, IFI's, NTPC	- Recommendations - #s of field visits	- Field trip reports	X	X	X	X	X
<i>Activity 2.5.2.4</i>	Presentation of monitoring results at national and international workshops	WMPA	NGOs	- #s of presentations	- PowerPoint - Reports	X	X	X	X	X

OBJECTIVE 3.	OBJECTIVE 3. Livelihoods Improvement, Poverty Reduction, and Sustainable Development: To contribute towards and facilitate the improvement of the livelihoods of the multiethnic people living in the Nakai -Nam Theun National Protected Area and Nam Theun 2 Watershed Area, with a view to poverty reduction by defining activities and sustained development plans in a manner that does not exert a negative impact on the environment, with the participation and consent of different ethnic groups in these areas									
Outcome 3.1	Community Empowerment Community leaders, villagers, and vulnerable people are fully involved in all decision making processes for their own destiny and aspiration and fully contribute to planning process cycle of the projects/activities designed to alleviate poverty and protect the environment.									
Output 3.1.1	Village and Village Cluster Development Framework: Each village has short-term (One year) and long-term (5 year) development plans, which includes a list of prioritized development activities that must be considered negative impacts to the natural resources and wildlife. Thus, they will be supported more effectively.									
<i>Activity 3.1.1.1</i>	Develop a participatory planning of each hamlet village within and around NPA villages	WMPA	Cross-sector team	<ul style="list-style-type: none"> Each village has long term and annual work plan 	<ul style="list-style-type: none"> Progress report 	X				
<i>Activity 3.1.1.2</i>	Develop/Update Participatory Planning Manual and Training Materials	WMPA	Consultants	<ul style="list-style-type: none"> a Participatory Planning manual is developed and published in 200 copies a training curriculum is developed and approved 	<ul style="list-style-type: none"> Training Manual Approved training Curriculum 	X				
<i>Activity 3.1.1.2</i>	Conduct Participatory Planning Training Workshops based on the Participatory Planning Manual and Training Materials	WMPA	DAFO, LWU, Consultants	<ul style="list-style-type: none"> two Participatory Planning Training Workshop are organized 	<ul style="list-style-type: none"> Training report progress report 	X				

<i>Activity 3.1.1.3</i>	Village Development Plan: Support each village to develop long-term village development planning by applying participatory and bottom-up approaches, which consider all stakeholders, ethnic groups, genders, ages, and pro-poor. Each village development plan will consist of lists of prioritized development activities. Conduct village consultation process to develop annual plan	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages, Consultants	<ul style="list-style-type: none"> at least 60% of the villagers participate in the planning process at least 40% of the participants are women all key stakeholders are involved vulnerable people such as poorest households are included in the planning process 	<ul style="list-style-type: none"> Planning report Village report Village Development Plan 	X	X	X	X	X
<i>Activity 3.1.1.4</i>	Village Cluster Development Plan: Support each village cluster to develop long-term development planning by consolidating all village development plans under the cluster. Each village cluster development plan will consist of the lists of its prioritized development activities	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Village representative	<ul style="list-style-type: none"> a representative of each key stakeholder participate in the planning at least two representatives of women and pro-poor are included 	<ul style="list-style-type: none"> Planning report Village Cluster Development Plan 	X	X	X	X	X
Output 3.1.2	Target Villages and Model Households: Facilitate villagers to identify a suitable target village and model households for a specific extension or/and development activity, so they can participate in the action learning, extension, and development of the activity.									
<i>Activity 3.1.2.1</i>	Develop institutional frameworks such as rules and regulation for the target villages and model households and conduct the awareness raising	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> a set of rules and regulations for model villages is developed a set of rules and regulations for model households is developed one awareness raising activity is implemented 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 	X				

<i>Activity 3.1.2.2</i>	Select and set up target villages for conservation and development	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> • 4 model villages, (2 in Navang and Teung clusters in the first two years, and other two villages for the following years) • 3 prioritized development activities for each model village are indentified and implemented 	<ul style="list-style-type: none"> • Activity reports • Village reports • Progress reports 	X	X	X	X	X
<i>Activity 3.1.2.3</i>	Select and set up model households for the prioritized activities from the plan in participatory approach	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> • at least 3 model households for each development activity are setup and increase about 3 households every year 	<ul style="list-style-type: none"> • Activity reports • Village reports • Progress reports 		X	X	X	X
Output 3.1.3	Study Trips: Organize national and international study tours for key stakeholders such as coordinators, village or community leaders, village women association and model farmers to successful projects which have similar environmental condition as well as implementing activities.									
<i>Activity 3.1.3.1</i>	Organize study tours to overseas which have similar characteristics such as Latin America and Asia	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Model Village Representative	<ul style="list-style-type: none"> • two international study tours are organized 	<ul style="list-style-type: none"> • Activity reports • Village reports • Progress reports 	X	X			
<i>Activity 3.1.3.2</i>	Organize study tours to other national parks and other development projects	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> • two in-house study trips are organized every year 	<ul style="list-style-type: none"> • Activity reports • Village reports • Progress reports 	X	X			

<i>Activity 3.1.3.3</i>	Build necessary capacity for the management and implementation of the activities carried out by stakeholders	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> two training courses on project and financial management 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 		X	X		
Output 3.1.4	Village Conservation and Development Fund (VCDF): Facilitate authorities to setup, mobilize and manage village conservation and development fund which make available for different conservation and development needs in their villages.									
<i>Activity 3.1.4.1</i>	Select and set up target model villages for village the VCDF funds	WMPA	District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> one model village in each cluster are identified 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 		X			
<i>Activity 3.1.4.2</i>	Develop institutional frameworks for VCDF in the target villages such as rules and regulation as well as management organization	WMPA	District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> a set of rules and regulations for model villages is developed organization structure with job description are in place 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 		X			
<i>Activity 3.1.4.3</i>	Build necessary capacity for the management and implementation staff of the VCDF through a training and study tour to a successful VDF management project	WMPA	District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> a training courses on project and financial planning and management for all management staff a study tour is organized for 3 important management staff of each VDF 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 		X			
<i>Activity 3.1.4.4</i>	Support the VCDF staff to start implementing the fund by contributing the seed-fund, assisting in planning, implementing, monitoring, and evaluating the activity.	WMPA	District Offices, Kum Ban and Villages	<ul style="list-style-type: none"> 4 VCDFs have been setup and functioned in a participatory manner 	<ul style="list-style-type: none"> Activity reports Village reports Progress reports 	X	X	X	X	X
Outcome 3.2	Food Security: Villagers have sufficient year round food supplies that meet dietary requirements especially for young and vulnerable groups/individuals ensuring minimum negative impacts to the environment and wildlife.			At least 80% of rice met the need of villagers						

Output 3.2.1	Paddy field Expansion: Identify and clear the potential land areas for permanent rice field under the production land area.									
<i>Activity 3.2.1.1</i>	Revise and assess the use of the allocated land within village and household level within the three village clusters	WMPA	DAFO, Kum Ban and Village authorities, and villagers	<ul style="list-style-type: none"> an update set of land inventory for each village update agricultural land use maps of each village 	<ul style="list-style-type: none"> Activity report Approved Inventory Document progress reports 	X	X	X		
<i>Activity 3.2.1.2</i>	Identify the suitable areas for paddy field development with village authorities and villagers	WMPA	DAFO, Kum Ban and Village authorities, and villagers	<ul style="list-style-type: none"> all potential paddy fields in all village are identified 	<ul style="list-style-type: none"> Activity report Village report progress reports 		X			
<i>Activity 3.2.1.3</i>	Revise related institutions on land use and land allocation to ensure that villagers contribute to the conservation and conduct awareness raising on the institutions	WMPA	DAFO, Kum Ban and Village authorities, and villagers	<ul style="list-style-type: none"> a set of rules and regulations for model villages is developed a set of rules and regulations for model households is developed one awareness raising activity is implemented 	<ul style="list-style-type: none"> Activity report Village report progress reports 	X	X	X	X	X
<i>Activity 3.2.1.4</i>	Finalize land use certificates to each household	WMPA	DAFO, Kum Ban and Village authorities, and villagers	<ul style="list-style-type: none"> 1,400 households receive land use certificates 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.2.1.5</i>	Support necessary investment for the paddy field clearance	WMPA	DAFO, Kum Ban and Village authorities, and villagers	<ul style="list-style-type: none"> 100 ha of land are clear for lowland rice field 	<ul style="list-style-type: none"> Activity report Village report Progress reports 	X	X	X		
Output 3.2.2	Improve soil fertility: Analyze soil nutrients and improve the soil fertility condition by using environmental friendly inputs.									
<i>Activity 3.2.2.1</i>	Conduct soil survey and analysis for all enclave villages and some PIZ target villages	DAFO	NAFRI	<ul style="list-style-type: none"> Soil fertility and suitability in the focused villages within the three clusters and some target villages in PIZ is identified 	<ul style="list-style-type: none"> Soil survey reports Progress reports 	X	X	X		

<i>Activity 3.2.2.2</i>	Training on bio fertilizer making, and application such as compost and green manual by using available resources	DAFO	NAFES, Agricultural Training Centers	<ul style="list-style-type: none"> a training course is organized for each target village within the three clusters and one training course for some target villages in PIZ 	<ul style="list-style-type: none"> Training reports Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.2.2.3</i>	Training on conservation agriculture techniques (Introducing conservation agricultural practices and trialing for adaptation)	DAFO	NAFES, Agricultural Training Centers	<ul style="list-style-type: none"> a training course is organized for each target village within the three clusters and one training course for some target villages in PIZ 	<ul style="list-style-type: none"> Training reports Activity reports Progress reports 		X	X	X	
<i>Activity 3.2.2.4</i>	Supply necessary materials and inputs for improving soil fertility by using environmental friendly products (e.g. EM, Seed and seedling of nitrogen fixating crops, molasses, containers)	DAFO	Kum Ban/village authorities and Villages	A number of materials and inputs for improving the soil fertility	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
Output 3.2.3	Small Scale Irrigation: Survey and establish a small scale irrigation system in the potential areas by working closely with the community.									
<i>Activity 3.2.3.1</i>	Revise and assess the existing irrigation schemes	DAFO	WMPA, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 4 irrigation systems are assessed 	<ul style="list-style-type: none"> Assessment reports Progress reports 	X				
<i>Activity 3.2.3.2</i>	Survey and conduct feasibilities for the potential irrigation sites with village authorities and villagers	DAFO	WMPA, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 3 new irrigation systems with the capacity of 5-10 ha are designed 	<ul style="list-style-type: none"> Activity report Village report progress reports 		X			
<i>Activity 3.2.3.3</i>	Revise and develop related institutions (e.g. rules and regulations) related to irrigation water use and conduct awareness raising to ensure that villagers contribute to the conservation	DAFO	WMPA, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a set of rule and regulation for irrigation management is approved 2 awareness raising activities are organized 	<ul style="list-style-type: none"> Approved institutions Activity Reports Progress reports 	X	X			
<i>Activity 3.2.3.4</i>	Construct irrigation schemes based on the actual priority and community participation in the three clusters	DAFO	WMPA, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 3 new irrigation systems are installed and functioned 20 ha of land are irrigated 	<ul style="list-style-type: none"> Activity report Village report progress reports 	X			X	X

<i>Activity 3.2.3.5</i>	Setup and strengthen irrigation water user groups to manage and monitor the use of the irrigation system	DAFO	WMPA, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 3 irrigation water user groups are setup a training on irrigation management for each group is organized 	<ul style="list-style-type: none"> Activity report Village report progress reports 	X				
Output 3.2.4	Crop Production Techniques: Improve crop production by increasing productivity with sustainable crop production techniques according to specific requirement and suitability of each target village.			<ul style="list-style-type: none"> rice production yield has been improved by 30% 	<ul style="list-style-type: none"> Assessment report Progress report 					
<i>Activity 3.2.4.1</i>	Assess and conduct experiment on potential crop productions such as rice varieties and other secondary crops which are suitable for the environmental condition of the target areas	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a rice varieties experiment is in each target village a trail on suitable secondary crops in each target village is implemented 	<ul style="list-style-type: none"> Experiment report Village reports progress reports 	X	X	X		
<i>Activity 3.2.4.2</i>	Revise and develop institutional framework to ensure the crop intervention activities link to conservation	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a set of rules and regulations for the intervention is approved 	<ul style="list-style-type: none"> Approved rules and regulations Activity report progress reports 	X	X			
<i>Activity 3.2.4.3</i>	Promote bio fertilizers and pesticide production and application	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a training on bio fertilizer is organized in each target village a training on bio pesticide is organized in each target village 	<ul style="list-style-type: none"> Training reports Village reports Progress report 		X	X	X	X
<i>Activity 3.2.4.4</i>	Promote and provide extension support of the successful crop production activities to other villages	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> at least 3 successful production techniques are extended to the nearby villages 	<ul style="list-style-type: none"> Activity reports Village reports progress reports 				X	X

<i>Activity 3.2.4.5</i>	Support necessary crop production inputs such as farm equipments, seeds, varieties, and credit according to specific requirement and suitability of each target village.	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> One tractor for Navang cluster and 5 hand tractors are provided 15 tons of rice seeds, maize and pulses are distributed to the target village and model farmers 	<ul style="list-style-type: none"> Activity report Village report progress reports 	X	X	X	X	X
<i>Activity 3.2.4.6</i>	Establish participatory learning and experiment process with farmers for potential agriculture productions	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> at least 3 participatory experiments for potential productions are completed 	<ul style="list-style-type: none"> Activity report progress reports 		X	X	X	X
Output 3.2.5	Livestock Production Techniques: Improve livestock production by sustainable production techniques according to specific requirement and suitability of each target village.			<ul style="list-style-type: none"> livestock production has been increase by 10% 	<ul style="list-style-type: none"> Assessment report Progress report 					
<i>Activity 3.2.5.1</i>	Revise and improve the current livestock production and management systems in the target villages (e.g. establish model livestock raising, Livestock inventory registration)	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> best suitable livestock production and management systems in each target village are indentified 	<ul style="list-style-type: none"> Activity report Progress reports 	X	X	X	X	X
<i>Activity 3.2.5.2</i>	Revise and develop institutional framework to ensure the livestock production intervention activities link to conservation	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a set of rules and regulations for livestock management is approved 	<ul style="list-style-type: none"> Approved rules and regulations Activity report Progress reports 	X	X			
<i>Activity 3.2.5.3</i>	Conduct livestock grazing and feeding demonstration with the model farmers	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a demonstration site is setup within each target village 	<ul style="list-style-type: none"> Activity report Progress reports 		X	X		
<i>Activity 3.2.5.4</i>	Promote and provide extension support of the successful livestock production activities to other villages	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> at least a successful production technique is extended to the nearby villages 	<ul style="list-style-type: none"> Activity report Village report progress reports 			X	X	X
<i>Activity 3.2.5.5</i>	Support necessary livestock production inputs such as animal breeds such as cattle, goat, and pig which are suitability of each target village.	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a livestock revolving fund is established in each target village support 100 cattle, 150 goats 	<ul style="list-style-type: none"> Activity report Village report progress reports 	X	X	X	X	

<i>Activity 3.2.5.6</i>	Strengthen Village Veterinary Workers (VVs) through refresh training on new animal health problems and management	DAFO,	VVs	<ul style="list-style-type: none"> 3 refresh trainings are organized for VVs in the three village cluster 	<ul style="list-style-type: none"> Training reports Progress reports 	X	X	X	X	
<i>Activity 3.2.5.7</i>	Improve and provide supports on necessary livestock healthcare service materials and equipment such as vaccinations, medicines, anti-parasites and cool chain facility	DAFO,	VVs	<ul style="list-style-type: none"> a revolving fund for each village is setup 	<ul style="list-style-type: none"> Activity report Village report Progress reports 	X	X	X	X	X
Output 3.2.6	Farmer Field School (FFS): To increase the farmers awareness of improved rice production, other important cash crops and livestock management practices, create a space in which farmers can plan, share ideas and develop strategies to address livelihood and food insecurity issues, and facilitate local government officers and local users to support and manage the activities of the Farmer Field School									
<i>Activity 3.2.6.1</i>	Identify prioritized production problems and FFS topics in each target villages	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 6 target villages in the three village clusters had identified prioritized production problems 	<ul style="list-style-type: none"> Activity reports Progress reports 		X			
<i>Activity 3.2.6.2</i>	Identify FFS participants, group leaders be the modulators or facilitators, and school sites	DAFO,	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> At least 2 group leaders in each target villages are identified 	<ul style="list-style-type: none"> Activity reports Progress reports 		X		X	
<i>Activity 3.2.6.3</i>	Develop FFS training curriculum and manual	DAFO,	NAFES	<ul style="list-style-type: none"> a training curriculum and manual is developed 	<ul style="list-style-type: none"> Approved training curriculum and manual Activity reports Progress reports 		X	X		
<i>Activity 3.2.6.4</i>	Build the capacity for the modulators/facilitators through training and study tour for crop and livestock production including facilitation, implementation and management skills.	DAFO,	NAFES, Villages	<ul style="list-style-type: none"> a training for all 12 modulators/ facilitators is organized a study tour for the 12 modulators is conducted 	<ul style="list-style-type: none"> Activity reports Progress reports 			X	X	

<i>Activity 3.2.6.5</i>	Implement and run FFS which includes regular group meeting to develop time schedules according to the crop production calendar, trainings, field visits, monitoring, and evaluation.	DAFO,	Villages	<ul style="list-style-type: none"> An annual work plan for each FFS is developed in a participatory manner. Meetings are regularly organized during the cropping season. lesson is drawn though activity and observation records 	<ul style="list-style-type: none"> Annual work plans Activity report Progress reports 					X	X
Output 3.2.7	Sustainable Use of Natural Food Sources: Identify and manage the use of food from natural resources in a sustainable way.										
<i>Activity 3.2.7.1</i>	Research on indigenous knowledge to identify types and location of food from the natural resources for each village	DAFO,	University researchers/ students/Kum Ban/ village authorities and Villagers	<ul style="list-style-type: none"> The local natural food sources are listed 	<ul style="list-style-type: none"> Research report 	X	X				
<i>Activity 3.2.7.2</i>	Develop regulation for sustainable use management of the natural food sources including NTFPs	DAFO,	WMPA, Kum Ban/ village authorities and Villages	<ul style="list-style-type: none"> a regulation for sustainable use management of natural food sources and NTFPs is developed 	<ul style="list-style-type: none"> Approved regulation 		X				
<i>Activity 3.2.7.3</i>	Promote production of the potential natural food sources such as rattan, bamboo, aquatic animals, and insects...	DAFO,	Kum Ban/ village authorities and Villages	<ul style="list-style-type: none"> Domesticated planting and raising wild species At least one conservation zone is established in each target village and some PIZ villages 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X	X
Outcome 3.3	Income Generation Villagers adopt increase their ability to generate and diversify incomes										

Output 3.3.1	Farm income: Promotion of cash crops, livestock and fruit trees production through agro-forestry practices according to specific requirement and suitability of each target village without generating negative impacts to the natural resources and wildlife.									
<i>Activity 3.3.1.1</i>	Identify and conduct feasibility studies on potential cash crops, fruit trees, tea and livestock productions according to specific characteristic of each target village	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> At least 3 prioritized economical feasible agriculture products are identified in each target village 	<ul style="list-style-type: none"> Study reports 	X	X	X		
<i>Activity 3.3.1.2</i>	Supports and facilitate the target villages to setup crop and livestock production groups	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> At least 4 production groups (2 for livestock and 2 for crop production) are established and functioned in each target villages and some selected PIZ villages 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X		
<i>Activity 3.3.1.3</i>	Promote cash crop productions such as peanut, black bean, red bean, mung bean	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> income from the crop productions gradually increase 	<ul style="list-style-type: none"> Activity reports Progress report 	X	X	X	X	X
<i>Activity 3.3.1.4</i>	Promote fruit tree production systems such as pomelo, lime and lemon, banana	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> income from the crop productions gradually increase 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X	X	X
<i>Activity 3.3.1.5</i>	Promote livestock production by stock management to ensure the limitation of over stock	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a livestock management plan 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X	X	X
<i>Activity 3.3.1.6</i>	Promote local agro-processing such as fruit crops, bamboo shoots, and other potential products	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> income from the crop productions gradually increase 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X	X	X
<i>Activity 3.3.1.7</i>	Support wild-tea production and processing at household level in a sustainable way.	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> 300 kg processed wild-tea is produced after third year 	<ul style="list-style-type: none"> Activity reports Progress report 	X	X	X	X	

Output 3.3.2	Non-farm income: Promote income diversification activities through potential sale and services and handicraft by using natural resources in a sustainable way according to specific characteristic of each target village.									
<i>Activity 3.3.2.1</i>	Identify indigenous products and conduct feasibility studies such handicraft using bamboo and rattan which have potential market for each target village.	WMPA	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> At least an economical feasible indigenous handicraft products are identified in each target village 	<ul style="list-style-type: none"> Study reports 	X	X			
<i>Activity 3.3.2.2</i>	Support handicraft production groups	WMPA	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> A handicraft production group in each target village and 3 groups in some selected PIZ villages are set up. 3 handicraft production groups in some selected PIZ villages are set up. at least 50% of the members are women 	<ul style="list-style-type: none"> Activity reports Progress report 		X			
<i>Activity 3.3.2.3</i>	Develop institutional framework and sustainable harvesting plan for the resource use	WMPA	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a regulation and harvesting plan for sustainable use of the natural resources is developed 	<ul style="list-style-type: none"> Approved regulation and plan 		X			
<i>Activity 3.3.2.4</i>	Support and promote the production by training, study tours, marketing	WMPA	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a handy craft production and marketing training is organized for each production group in both target village and some selected PIZ villages 	<ul style="list-style-type: none"> Training reports Progress reports 			X		
<i>Activity 3.3.2.5</i>	Support vocational training for specific demand (e.g. electronic, mechanic, handicraft, building construction, carpentry, weaving)	WMPA	Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> a potential person is sent to a short-term vocational training for each potential field 	<ul style="list-style-type: none"> Activity reports Progress reports 				X	X

Output 3.3.3	Income from Non Timber Forest Product (NTFPs): Sustainable harvest of potential high value NTFPs and value added in a sustainable way according to specific characteristic of each target village.									
<i>Activity 3.3.3.1</i>	Identify and conduct the feasibility study of the potential high value NTFPs such as honey, wild-tea, and cardamom and others	WMPA	Consultant DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> At least 3 prioritized economical feasible NTFPs are identified in each target village EIA is completed 	<ul style="list-style-type: none"> Study report EIA Report 	X	X	X	X	
<i>Activity 3.3.3.2</i>	Support setting up NTFP groups and necessary institution for each particular high value	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> A NTFP group in each target village group rules and regulation is developed 	<ul style="list-style-type: none"> Activity reports Approved rules and regulations Progress report 		X	X		
<i>Activity 3.3.3.3</i>	Support and promote the sustainable collection and value added processing by training, conducting study tours, and marketing	WMPA	Consultant, Kum, DAFO, Ban/village authorities and Villages	<ul style="list-style-type: none"> A harvesting plan for each particular NTFP for each group is developed a training course consisted of planning, processing, marketing, and study tour is organized 	<ul style="list-style-type: none"> Harvesting plans Training reports 	X	X	X	X	
<i>Activity 3.3.3.4</i>	Conduct production experiments and demonstration plot for the potential high valuable NTFPs	WMPA	DAFO, Kum Ban/village authorities and Villages	<ul style="list-style-type: none"> an experiment/ demonstration plot for the potential high value NTFPs is established in each village cluster 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X	X	
Outcome 3.4	Eco-tourism development: to promote biodiversity conservation and alleviate poverty among people living in and around the protected area									
Output 3.4.1	Capacity of WMPA and local tourism managers (Local villager) had been built through a numbers of study tours, training courses									
<i>Activity 3.4.1.1</i>	Training on English language, tour services and operation for WMPA and Nakai district tourism officials	WMPA	District Tourism Office	<ul style="list-style-type: none"> One on-site, one-year English language course for 6 officials 	<ul style="list-style-type: none"> Training reports Progress reports 	X	X	X	X	

<i>Activity 3.4.1.2</i>	Study tour to Vietnam and Thailand	WMPA	District Tourism Office	<ul style="list-style-type: none"> Two 7-day study tour for 5 officials 	<ul style="list-style-type: none"> Study tour report Progress reports 		X	X		
Output 3.4.2	Ecotourism awareness raising at the District and community level									
<i>Activity 3.4.2.1</i>	Annual ecotourism awareness raising workshop with district stakeholders	WMPA	District Tourism Office	<ul style="list-style-type: none"> One annual workshop attended by at least 30 participants 	<ul style="list-style-type: none"> Workshop reports Progress reports 		X	X	X	X
<i>Activity 3.4.2.2</i>	Ecotourism awareness seminars in target communities	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Six community-level awareness seminars attended by at least 30 participants 	<ul style="list-style-type: none"> Seminar reports Progress reports 		X			
<i>Activity 3.4.2.3</i>	Develop or use the LNTA Sustainable Tourism Development Project (STDTP) materials and distribute educational materials on ecotourism do's and don'ts for communities and tourists in the NNT NPA	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> One do and don't poster developed and 1,000 copies printed and distributed 	<ul style="list-style-type: none"> Activity reports Published posters Progress reports 		X			
Output 3.4.3	Ecotourism surveys and planning									
<i>Activity 3.4.3.1</i>	Detailed field surveys with private sector tour operators	WMPA	District Tourist Office, Tour businesses	<ul style="list-style-type: none"> Four additional surveys with at least 2 tour operators 	<ul style="list-style-type: none"> Survey reports Activity reports Progress reports 		X			
<i>Activity 3.4.3.2</i>	Designate and approve official eco-tour routes	WMPA	District Tourism Office	<ul style="list-style-type: none"> Four new eco-tour routes officially approved by the WMPA/relevant authorities 	<ul style="list-style-type: none"> Activity reports Official approved eco-tour routes Progress reports 	X	X	X	X	X
<i>Activity 3.4.3.3</i>	Conduct trial tours	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> At least 7 trial tours conducted with 35 tourists annually 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.4.3.4</i>	Establish community-managed wildlife ecotourism and Botanical sanctuaries	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> At least 4 ecotourism wildlife and NTFP sanctuaries established 	<ul style="list-style-type: none"> Activity reports Progress reports 				X	X
<i>Activity 3.4.3.5</i>	Conduct additional surveys and catalogue additional tour itineraries	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Six additional ecotourism circuits survey and catalogue 	<ul style="list-style-type: none"> Activity reports Survey reports Published catalogue Progress reports 	X	X	X	X	X
Output 3.4.4	Development of tourism zoning and operational regulations									

<i>Activity 3.4.4.1</i>	Develop guidelines for tourism activities in each zone of the protected area	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> • A set of guidelines for each zone of the protected area 	<ul style="list-style-type: none"> • Activity reports • Published guidelines • Progress reports 		X			
<i>Activity 3.4.4.2</i>	Develop cooperative agreements with tour companies and communities on the operational aspects of each tour	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> • Four cooperative agreements, preferably with 2 tour operators 	<ul style="list-style-type: none"> • Activity reports • Progress reports 		X	X	X	X
<i>Activity 3.4.4.3</i>	Establish a tourist entry fee/permit system for the protected area	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> • Entry fee/permit system developed and approved by the WMPA 	<ul style="list-style-type: none"> • Official approved rules and regulations • Activity reports • Progress reports 		X			
<i>Activity 3.4.4.4</i>	Develop and approve concession guidelines and designate areas for ecolodges	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> • One set of concession guidelines approved and 2 plots of land earmarked for ecolodge development 	<ul style="list-style-type: none"> • Official approved guidelines • Activity reports • Progress reports 		X	X		
Output 3.4.5	Tourism training and micro-enterprise development									
<i>Activity 3.4.5.1</i>	Conduct village-based guide training	WMPA	Kum Ban and Villages	<ul style="list-style-type: none"> • 6 village based guide trainings with 36 participants (6 each) 	<ul style="list-style-type: none"> • Training reports • Progress reports 		X	X	X	X
<i>Activity 3.4.5.2</i>	Conduct village-level hospitality training	WMPA	Kum Ban and Villages	<ul style="list-style-type: none"> • Four hospitality trainings (in four villages/20 each training) with a total of 80 participants 	<ul style="list-style-type: none"> • Training reports • Progress reports 		X	X	X	X
<i>Activity 3.4.5.3</i>	English language training for village level service providers	WMPA	District Tourism Office, tour businesses, Kum Ban and Villages	<ul style="list-style-type: none"> • Four basic English language trainings (in four villages/20 each training) with a total of 80 participants 	<ul style="list-style-type: none"> • Training reports • Progress reports 	X	X	X	X	X
<i>Activity 3.4.5.4</i>	Research tourism-related product supply chains	WMPA	District Tourism Office, Universities/consultants?	<ul style="list-style-type: none"> • One report identifying local products that non-tourism villages can produce for sale in the tourism economy 	<ul style="list-style-type: none"> • Research reports • Progress reports 		X		X	

<i>Activity 3.4.5.5</i>	Training in the design, packaging and sale locally produced products (handicrafts, local foods, herbal medicines)	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Four trainings (in four villages/20 each training) on the production of local products with a total of 80 participants 	<ul style="list-style-type: none"> Training reports Progress reports 		X	X	X	X
Output 3.4.6	Small-infrastructure support									
<i>Activity 3.4.6.1</i>	Walking trail improvements (track improvement, small wooden bridges)	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Four trails improved to a reasonable level of safety 	<ul style="list-style-type: none"> Activity reports Progress reports 		X	X	X	
<i>Activity 3.4.6.2</i>	Design and construct trail signage & information boards	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Four sets of signage designed and installed 	<ul style="list-style-type: none"> Activity reports Progress reports 		X	X	X	
<i>Activity 3.4.6.3</i>	Design & construction of village tourist lodges and organization of campsites	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Four simple village lodges constructed and three campsites organized 	<ul style="list-style-type: none"> Activity reports Progress reports 			X	X	
<i>Activity 3.4.6.4</i>	Design & construction of wildlife viewing platforms	WMPA	District Tourist Office, Kum Ban and Villages	<ul style="list-style-type: none"> Two wildlife observation towers constructed 	<ul style="list-style-type: none"> Activity reports Progress reports 			X	X	
Output 3.4.7	Production of interpretative materials, marketing and promotion									
<i>Activity 3.4.7.1</i>	Produce educational publications for visitors in English and Lao	WMPA	District Tourist Office,	<ul style="list-style-type: none"> English and Lao versions of a visitor guidebook on the NNT NPA (5,000 copies each) 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X		X	
<i>Activity 3.4.7.2</i>	Produce marketing and promotional materials	WMPA	District Tourist Office,	<ul style="list-style-type: none"> One brochure on ecotourism in the NNT NPA (10,000 copies) and one webpage for publication on the NTPC and www.ecotourism Laos.com websites 	<ul style="list-style-type: none"> Activity reports Progress reports 		X	X		
<i>Activity 3.4.7.3</i>	Exchange visits with handicraft and NTFP traders to facilitate equitable supply contracts with local producers	WMPA	District Tourist Office, Tourist businesses, Kum Ban and Villages	<ul style="list-style-type: none"> Four exchange visits in Nakai District, attended by at least 10 villages 	<ul style="list-style-type: none"> Activity reports Progress reports 			X	X	X

Output 3.4.8	Establishment of ecotourism stakeholder associations and networking				•					
<i>Activity 3.4.8.1</i>	WMPA and DTO participation in provincial and national ecotourism conferences and workshops	WMPA	District Tourist Office	• Four officials from WMPA/DTO participate in 5 conferences/workshops	• Activity report • Minute of Meeting • Progress reports	X	X	X	X	X
<i>Activity 3.4.8.2</i>	Establish village ecotourism committees	WMPA	District Tourist Office, Kum Ban and Villages	• Ecotourism committees established in 10 villages	• Activity report • Progress reports	X	X	X		X
<i>Activity 3.4.8.3</i>	Village and district participation in provincial/national ecotourism related meetings and workshops	WMPA	Provincial Tourist Office, District Tourist Office, Tourist businesses, Kum Ban and Villages	• Group/association participation (5 persons each time) in five annual events	• Minute of Meeting • Progress reports		X	X	X	X
Output 3.4.9	Institutional support and monitoring									
<i>Activity 3.4.9.1</i>	Conduct a pre-implementation meeting with Provincial and District Officials to determine working relationship between the WMPA, DTO and PTD	WMPA	DTO and PTD	• One meeting between the WMPA, DTO and PTD	• Minute of Meeting • Progress report	X				
<i>Activity 3.4.9.2</i>	Recruit and contract an International Ecotourism Specialist	WMPA	DTO and PTD	• One International Ecotourism Specialist contracted	• Activity report • Progress report	X	X	X	X	X
<i>Activity 3.4.9.3</i>	Purchase a camera, transportation and dedicated computer set for the WMPA Ecotourism Division	WMPA	WMPA	• One camera, one off-road motorbike and one computer set supplied	• Activity reports • Progress reports	X		X		
<i>Activity 3.4.9.4</i>	Implement ecotourism monitoring protocol	WMPA	Provincial and District Tourist Office, Kum Ban and Villages	• Monthly, quarterly regular monitoring	• Regular monitoring reports • Progress reports		X	X	X	X
<i>Activity 3.4.9.5</i>	Conduct annual ecotourism review meeting in Nakai	WMPA	Provincial and District Tourist Offices, Tourist businesses, Kum Ban and Villages	• One annual review meeting attended by 30 key stakeholders	• Minute of Meetings • Progress reports			X		X
Outcome 3.5	Social support: Villagers enjoy a quality of life that are equal to or consistent with other Lao villagers nationally									

Output 3.5.1	Female and Culture Empowerment: Increase involvement of women participating in activities and increased access to services									
<i>Activity 3.5.1.1</i>	Raise awareness on gender mainstreaming issues	District LWU	Village LWU	<ul style="list-style-type: none"> one awareness raising on gender is organized in every village and at least 50% of the participants are women 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.1.2</i>	Raise awareness on ethnic and cultural issues	District LWU	Village LWU	<ul style="list-style-type: none"> one awareness raising on ethnic and cultures is organized in every village and at least 50% of the participants are women 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.1.3</i>	Train woman on financial management to ensure effective and efficient management of a funds	District LWU	Village LWU	<ul style="list-style-type: none"> one training on financial management for Village Woman Group is organize in each target village and some selected PIZ villages 	<ul style="list-style-type: none"> Training reports Progress reports 	X	X	X	X	X
Output 3.5.2	Education: Improved educational services and increased access to basic education especially for girls									
<i>Activity 3.5.2.1</i>	Provide incentive schemes for school teachers to increase teachers' motivation by both cash and in-kind according to the new education policy of the Ministry of Education	DEO	School teachers	<ul style="list-style-type: none"> Non any teachers quit the job 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.2.2</i>	Advocate community awareness on education policies, regulations, and benefits.	DEO	Village authorities, villagers	<ul style="list-style-type: none"> An awareness raising activity is organized in each village including PIZ villages All parents support and send their children to school The dropped out school children rate in secondary schools is less than 5% per year 	<ul style="list-style-type: none"> Activity reports Assessment reports Progress reports 	X	X	X	X	X

<i>Activity 3.5.2.3</i>	Support necessary teaching and learning materials	DEO	School teachers, students	<ul style="list-style-type: none"> All schools in both watershed and PIZ villages have sufficient teaching and learning text books stated in the curriculums 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.2.4</i>	Incentive schemes for student to enhance number of enrolment and reduce school dropout rate, especially for girls (e.g. food for school, bicycles)	DEO	School teachers, students' parents	<ul style="list-style-type: none"> 100 % of school age children all girls in both watershed and PIZ villages had registered in primary schools every school year. At least 95 % of school age children in both areas had attended in secondary school in each year. 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.2.5</i>	Develop and introduce guidelines/manuals on conservation and green agriculture practices for primary and secondary schools	DEO	School teachers, DAFO	<ul style="list-style-type: none"> at least a conservation and green agriculture production activity is taught and implemented in each schools in both watershed and PIZ areas 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.2.6</i>	Conduct feasibility study on constructing an ethnic secondary school with a dormitory in a center of the watershed villages.	DEO	Village authorities, villagers	<ul style="list-style-type: none"> a school building plan and a dormitory plan are finalized 	<ul style="list-style-type: none"> Approved construction plans Feasibility study report Progress reports 		X			
<i>Activity 3.5.2.7</i>	Conduct feasibility studies on renovating and constructing primary and secondary schools in NT2 Watershed villages and selected PIZ villages	DEO	Village authorities, villagers	<ul style="list-style-type: none"> All schools which need to improve or rebuild in both watershed and PIZ villages are accessed 	<ul style="list-style-type: none"> Activity reports Assessment reports Progress reports 	X	X			
<i>Activity 3.5.2.8</i>	Support and contribute necessary construction materials for the school and dormitory constructions, and renovation	DEO	Village authorities, villagers	<ul style="list-style-type: none"> One ethnic secondary school with a dormitory is built which can accept at least 60 students 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X

<i>Activity 3.5.2.9</i>	Support literacy education for all villagers in the watershed area	DEO	Village authorities, villagers	<ul style="list-style-type: none"> 80% of the villagers are literate 	<ul style="list-style-type: none"> Activity reports Progress reports 		X	X	X	X
Output 3.5.3	Health: Improved health services, increased access to services and reduction in key morbidity and other health indicators especially for women, pregnant mothers and children under 5 years									
<i>Activity 3.5.3.1</i>	Provide regular maternal and child healthcare services through annual health checkup, vaccination, and medical treatment.	DHO	Village health workers, Village authorities, and villagers	<ul style="list-style-type: none"> An annual maternal and child healthcare service is implemented in each dispensary in both watershed and PIZ areas All children in both areas had vaccinated with necessary vaccines Child mortality rate is reduced by XX% 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.3.2</i>	Support family planning and birth control activities in both watershed and PIZ areas	DHO	Village health workers, Village authorities, and villagers	<ul style="list-style-type: none"> A family planning and birth control is organized in each dispensary Birth rate is reduced to 2.7% 	<ul style="list-style-type: none"> Activity reports Assessment reports Progress reports 	X	X	X	X	X
<i>Activity 3.5.3.3</i>	Improve dispensary and medicine box and support necessary medical equipments (for first aid and birth delivery)	DHO	Village health workers	<ul style="list-style-type: none"> All dispensaries in the watershed area are functioned and equipped with medicine boxes that have all basic necessary medical treatment equipments and medicines. 	<ul style="list-style-type: none"> Activity reports Progress report 	X	X	X	X	X
<i>Activity 3.5.3.4</i>	Support a training/workshop on new significant health problems and treatments	DHO	Village health workers	<ul style="list-style-type: none"> One training course/workshop is organized a year for all village health workers 	<ul style="list-style-type: none"> Training/workshop reports Progress report 	X	X	X	X	X

<i>Activity 3.5.3.5</i>	Awareness raising on hygiene and fatal diseases	DHO	Village health workers, Village authorities, and villagers	<ul style="list-style-type: none"> An awareness raising activity is organized for each village 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
Output 3.5.4	Nutrition: reduce levels of malnutrition, especially of vulnerable groups such as woman and children									
<i>Activity 3.5.4.1</i>	Study current nutrition intake and food sources for different target groups (rich, middle, and poor) in each target village	WMPA	DHO, consultants, villagers	<ul style="list-style-type: none"> The gap of actual nutrition intake and body requirement as well as sources is identified 	<ul style="list-style-type: none"> Study report 		X			
<i>Activity 3.5.4.2</i>	Advocate and increase public awareness of nutrition and significant roles of natural biodiversity on food security and nutrition, adverse impact of malnutrition on physical and mental development in human and from tobacco and alcohol consumption	WMPA	LWU, DHO, Village health workers, Village authorities, villagers	<ul style="list-style-type: none"> An awareness raising activity is organized for each village including PIZ villages 	<ul style="list-style-type: none"> Activity reports Progress report 	X	X	X	X	X
<i>Activity 3.5.4.3</i>	Integrate food security and nutrition issues into secondary education teaching program	WMPA	DEO, LWU, teachers and students	<ul style="list-style-type: none"> Food security and nutrition issues is taught in each schools in both watershed and PIZ areas 	<ul style="list-style-type: none"> Activity reports Progress report 			X	X	X
Output 3.5.5	Water and sanitation: Increased access to clean water and sanitation facilities									
<i>Activity 3.5.5.1</i>	Conduct feasibility studies for constructing new clean water systems	WMPA	DHO, Village authorities, and villagers	<ul style="list-style-type: none"> 4 feasibility studies of new clean water systems in the three village clusters are completed 	<ul style="list-style-type: none"> Study reports Progress reports 	X	X	X		
<i>Activity 3.5.5.2</i>	Revise and develop necessary institutional frameworks and management system	WMPA	DHO, Village authorities	<ul style="list-style-type: none"> rules, regulations and management system for 12 clean water systems are improved 12 water user groups are setup 	<ul style="list-style-type: none"> Approved rules, regulations, and management system Activity reports 		X	X		

<i>Activity 3.5.5.3</i>	Support training for water user groups in maintaining and fixing the systems	WMPA	Concern government agency (Clean water), Water User Groups	<ul style="list-style-type: none"> a training for each of 12 water user groups is organized 	<ul style="list-style-type: none"> Training report Progress reports 		X	X	X	
<i>Activity 3.5.5.4</i>	Evaluate the existing installed clean water systems and support communities to fix and improved the broken and inefficient systems	WMPA	DHO, Village authorities, and villagers	<ul style="list-style-type: none"> 12 clean water systems are well functioned 	<ul style="list-style-type: none"> Activity reports Progress report 	X	X	X		
<i>Activity 3.5.5.5</i>	Support communities to build the clean water systems	WMPA	DHO, Village authorities, and villagers	<ul style="list-style-type: none"> 4 new clean water systems are installed and well functioned 80% of total households have accessed to the clean water 	<ul style="list-style-type: none"> Activity reports Progress report 		X	X	X	X
<i>Activity 3.5.5.6</i>	Support community to improve and extend current systems in Makfuang, Nawang, and Thong noi	WMPA	DHO, Village authorities, and villagers	<ul style="list-style-type: none"> 3 existing systems are improved and extended 	<ul style="list-style-type: none"> Activity reports Progress report 				X	X
Output 3.5.6	Electrification: Improved services and access to electricity									
<i>Activity 3.5.6.1</i>	Conduct feasibility studies on new potential electrical systems such as small scale hydroelectric power generators and solar cell systems in Korbong and Thongnoi village	WMPA	Concern Government Agencies, Village authorities, and villagers	<ul style="list-style-type: none"> 2 economical feasibility studies with detail plans for the capacity from 5-15 kW are completed 	<ul style="list-style-type: none"> Feasibility study report Progress report 	X	X			X
<i>Activity 3.5.6.2</i>	Develop institutional frameworks and organization structures such as rules, regulation, management structures, and committees and build the capacity for the management committee members by training and study trips to a successful case	WMPA	Concern Government Agencies, Village authorities	<ul style="list-style-type: none"> Management organizations with rules and regulations are developed a training with a study tour for each management organization is organized All management staff had participated 	<ul style="list-style-type: none"> Approved institution and organization structure Training report Progress reports 		X			

<i>Activity 3.5.6.3</i>	Continue to build electrical system in Navang and feasibility studies in Korbong and Thongnoi village	WMPA	Concern Government Agencies and Village authorities	<ul style="list-style-type: none"> • 2 small scale electrical power plants are constructed • 50% of all households have accessed to electricity 	<ul style="list-style-type: none"> • Activity reports • Progress report 	X	X				X
<i>Activity 3.5.6.4</i>	Facilitate interest development agencies to support solar cell systems	WMPA	Development agencies, Private sectors Village authorities, and villagers	<ul style="list-style-type: none"> • At least 6 solar cell systems are installed in the target villages provided by interested agencies 	<ul style="list-style-type: none"> • Activity reports • Progress report 		X	X			
<i>Activity 3.5.6.4</i>	Monitor and evaluate the activity to ensure effective and efficient management and services	WMPA	Concern Government Agencies, Village authorities, and villagers	<ul style="list-style-type: none"> • quarterly monitoring are implemented 	<ul style="list-style-type: none"> • Monitoring reports • Progress report 			X	X	X	
Output 3.5.7	Access track: Improved community access tracks										
<i>Activity 3.5.7.1</i>	Improve tracks and bridges from Na Hao to Navang and Mak Fueng to Thong Noi and Tong village to be able to travel on all year-round	WMPA	District Transportation Office, Village authorities, and villagers	<ul style="list-style-type: none"> • 2 tracks with bridges in the total length of 50 km are rebuilt and can be traveled in both seasons • EIA/WARF/ESOM 	<ul style="list-style-type: none"> • Activity reports • EIA/WARF • Progress report 	X	X	X	X	X	
<i>Activity 3.5.7.2</i>	Fix the small track from Makfueang to Korbong	WMPA	District Transportation Office, Village authorities, and villagers	<ul style="list-style-type: none"> • # km of small tract is rebuilt and can be traveled in both seasons • EIA/WARF/ESOM 	<ul style="list-style-type: none"> • Survey report • EIA/WARF • Progress report 			X	X		
<i>Activity 3.5.7.3</i>	Fix the track from Kaeng Louang to Makfueang	WMPA	District Transportation Office, Village authorities, and villagers	<ul style="list-style-type: none"> • # km of small tract is rebuilt and can be traveled in both seasons • EIA/WARF/ESOM 	<ul style="list-style-type: none"> • Survey report • EIA/WARF • Progress report 				X	X	
<i>Activity 3.5.7.4</i>	Survey and design bridge to cross over Nam Mone river	WMPA	District Transportation Office, Village authorities, and villagers	<ul style="list-style-type: none"> • # m bridge is rebuilt and can be traveled in both seasons • EIA/WARF/ESOM 	<ul style="list-style-type: none"> • Survey report • EIA/WARF • Progress report 	X					

Outcome 3.6	Monitor livelihood improvement, poverty reduction and sustainable development: Monitor the progress outputs of the intervention activities									
Output 3.6.1	Livelihood monitoring									
<i>Activity 3.6.1.1</i>	Monitor the progress of livelihood improvement activities by updating social economic information annually through data collection, storage, processing, analysis, reporting, and publishing necessary information related to livelihood and conservation	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages, Consultants	<ul style="list-style-type: none"> A user friendly baseline data collection form including both livelihood and conservation dimension is applied. A baseline data base system is developed and can continuously update. the related baseline data in all 11 villages and 4 PIZ villages are completed 	<ul style="list-style-type: none"> Baseline database system with information Baseline Survey Report 	X	X	X	X	X
OBJECTIVE 4.	Institutional Capacity Building - to increase the capacity building and strengthening of the Authority and other stakeholders concerned that are involved in the management and implementation of the Authority's activities									
Outcome 4.1	WMPA NT2 WMPA can effectively initiate, coordinate and oversee capacity building requirements of all stakeholders									
Output 4.1.1	Institutional Arrangements Improved institutional capacities of to fulfill NT2 WMPA's responsibilities under Decree 471/PM									
<i>Activity 4.1.1.1</i>	Improve HR Unit in WMPA' Secretariat to effectively function staff evaluation	WMPA		- Effective HR Unit established	- WMPA organization structure	X				
<i>Activity 4.1.1.2</i>	Review and re-arrange staff to ensure their skills and experience are commensurate with TOR requirement	WMPA		- Qualified staff assigned to effectively implement tasks	- Progress report of activities	X				
<i>Activity 4.1.1.3</i>	Perform institutional capacity assessment for other implementing agencies to evaluate their readiness	WMPA	GOL agencies, cluster, village authorities	<ul style="list-style-type: none"> #s of staff and qualification List of staff skills Facilities availability 	<ul style="list-style-type: none"> Reports Evaluation forms 		X	X	X	X

<i>Activity 4.1.1.4</i>	Develop village extension mechanism	WMPA	DAFO	An appropriate extension mechanism is developed according to each specific target village	- Progress report of activities		X	X	X	X
Output 4.1.2	Staff Improved staff qualification, skills and aptitude									
<i>Activity 4.1.2.1</i>	Perform annual staff evaluation using standardized forms	WMPA	LGO' agencies	- #s of staff evaluated annually	- Evaluation forms		X	X	X	X
<i>Activity 4.1.2.2</i>	Perform training need assessment for staff in WMPA and other stakeholders	WMPA	LGO' agencies	- Training topics required to train - List of staff skills	- Evaluation forms		X	X	X	X
<i>Activity 4.1.2.3</i>	Provide technical training for staff and villagers on principles of biodiversity conservation, monitoring, enforcement, outreach	WMPA	NGOs, LGO's agencies,	- #s of staff trained	- Training materials	X	X	X	X	X
<i>Activity 4.1.2.4</i>	Support WMPA and other agencies staff to attend national and international training workshops in particular technical skills	WMPA	NGOs, LGO's agencies,	- #s of staff attended the training course	- Report - Training materials	X	X		X	X
<i>Activity 4.1.2.5</i>	Support WMPA and other agencies staff for study tours in domestic and abroad to gain experience and exchange skills	WMPA	NGOs, LGO's agencies,	- #s of staff participated	- Reports -	X		X		
<i>Activity 4.1.2.6</i>	Select and support motivated village individuals to attend domestic training on particular subjects on livelihoods	WMPA	VCMU	-# of villagers selected for training	- Training course, materials	X	X		X	X
Outcome 4.2	Government and other agencies GOL and other agencies can effectively support the NT2 WMPA in implementing SEMFOPs and AWPB									
Output 4.2.1	NPA Management Improved ability to design, implement and monitor NPA management plans									
<i>Activity 4.2.1.1</i>	Identify and support leading government agencies to implement PA management	WMPA	LGO's agencies	- List of agencies involved	- Workshops - TORs	X	X	X	X	X
<i>Activity 4.2.1.2</i>	Develop the NPA management transition plan, and allocate WMPA staff to support TA Extension, M&E, and coordination	WMPA	LGO's agencies	- NPA management transition plan developed	- Workshops	X	X	X	X	X
<i>Activity 4.2.1.3</i>	Allocate NPA management tasks to implementing agencies commensurate with TOR	WMPA	LGO's agencies	- Agencies assigned tasks		X	X	X	X	X

<i>Activity 4.2.1.4</i>	Provide technical trainings for WMPA and GOL' agencies staff on principles of NPA management planning, PICAD, implementing, monitoring and evaluation	WMPA	LGO's agencies	- Agencies' staff trained	- Training materials - Training evaluation	X	X	X	X	X
Output 4.2.3	Cross-cutting issues Improved awareness and ability to design, implement and monitor cross-cutting issues of gender, ethnicity and COCA									
<i>Activity 4.2.3.1</i>	Six-monthly and annual workshops with all stakeholders to share experiences	WMPA	GoL, Implementing agencies, District Offices, Kum Ban and Villages, Consultants	A workshop is organized every 6 months	Minute of meetings	X	X	X	X	X
Output 4.2.4	Project Management Increased involvement and understanding of what is required to deliver effective and efficient project activities that meet the objectives of the NT2 WMPA as in the SEMFOP and AWPB									
<i>Activity 4.2.4.1</i>	Support all stakeholders to integrate conservation and development (or PICAD) into the institutional framework	WMPA	LGO's agencies	- PICAD agenda in GOL institutional framework	- Reports - Institutional framework	X	X			
Outcome 4.3	Koumban and Villages Koumban and villages are active agents in developing and implementing activities for the protection of the NPA and improvement of villagers quality of life									
Output 4.3.1	Local Ownership Increased acknowledgment of ownership and participation by Koumban and Villages in the management of the NPA and NT2 Watershed									
<i>Activity 4.3.1.1</i>	Establish Micro-village conservation units to design, implement, monitoring and evaluate the conservation and development	WMPA	LGO's agencies, VCMU	- # Micro-village conservation units created	- Village workshops - Reports	X				
<i>Activity 4.3.1.2</i>	Build small office facilities, and provide technical and financial supports for implementing conservation and development activities in each cluster	WMPA	LGO's agencies, VCMU	- Facilities built, - Amount of financial assistance approved	- Reports - Village conservation unit function	X	X	X	X	X

<i>Activity 4.3.1.3</i>	Training for village/cluster leaders on subjects related to project management, PICAD.	WMPA	LGO's agencies	- #s of village leaders trained	- Training materials	X	X	X	X	X
<i>Activity 4.3.1.4</i>	Support villages to integrate PICAD into village and cluster' organization agenda	WMPA	LGO's agencies, VCMU	- PICA in village's framework	- Village organization structure	X				
Outcome 4.4	Monitoring Institutional Capacity Building Indicate that NT2 WMPA and other parties involved in the NT2 WPMA management have the capacity to implement activities effectively and efficiently according to the SEMFOP and AWPB indicators and criteria									
Output 4.4.1	Monitoring Capacity Building Verify methods, systems and tools used to build capacity are functioning effectively									
<i>Activity 4.4.1.1</i>	Develop a standardized evaluation form for annual performance evaluation of staff	WMPA	LGO's agencies	- Standardized performance evaluation forms developed	- Evaluation forms	X				
<i>Activity 4.4.1.2</i>	Conduct individual staff performance evaluation in each stakeholder office	WMPA	LGO's agencies	- Evaluation results	- Reports		X	X	X	X
<i>Activity 4.4.1.3</i>	Conduct institutional performance evaluation to assess institutional capacity	WMPA	LGO's agencies	- Evaluation results	- Reports		X	X	X	X
OBJECTIVE 5.	Effective Management of Funds – To strictly manage the fund, (income, expenditure, cash reserve and other assets) and effectively use the Fund in order to realize the Authority's above-mentioned objectives									
Outcome 5.1	Personnel Recruitment and Management: Qualified professional staff are allocated for each position in implementing the NT2 WMPA activities according to the Decree 471/PM									
Output 5.1.1	Human Resource Management									
<i>Activity 5.1.1.1</i>	Revise and develop job descriptions, ToR documents, staff contracts, staff performance assessment documents, and HR manual to ensure fulfillment of the implementation of the decree 471/PM.	WMPA	WMPA	<ul style="list-style-type: none"> • 35 staff having the correct skills and competency for the job • ToRs for national consultants positions are developed • Increased job satisfaction 	<ul style="list-style-type: none"> • Approved Job Descriptions, ToR documents, staff contracts, Staff performance review documents and HR manual • Approved organizational structure 	X				

<i>Activity 5.1.1.2</i>	Assess current staff qualification and performance	WMPA	WMPA	<ul style="list-style-type: none"> all WMPA staff are assessed based on the criteria of the staff performance assessment documents 	<ul style="list-style-type: none"> Assessment reports Progress reports 	X				
<i>Activity 5.1.1.3</i>	Recruit new staff for missing positions	WMPA	WMPA	<ul style="list-style-type: none"> 35 qualified staff implement the WMPA 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
Output 5.1.2	Staff capacity building									
<i>Activity 5.1.2.1</i>	Support necessary competently skill training for managing and implementing the WMPA activities	WMPA	Government implementation agencies	<ul style="list-style-type: none"> 35 staff having the correct skills and competency for the job 	<ul style="list-style-type: none"> Training reports Progress reports 		X			
Output 5.1.3	Technical Assistants									
<i>Activity 5.1.3.1</i>	Recruit short term national consultants enhancing technical supports on improving systems, procedures, policies and management decision making processes (one for livelihood development and one for biodiversity conservation)	WMPA	Consultants	<ul style="list-style-type: none"> 2 national consultants are recruited 	<ul style="list-style-type: none"> Activity reports Progress reports 	X	X	X	X	X
Output 5.1.4	Salary and Remuneration									
<i>Activity 5.1.4.1</i>	Staff salary and remuneration	WMPA		<ul style="list-style-type: none"> All WMPA staff and implementing staff had received sufficient salary and remuneration on time 	<ul style="list-style-type: none"> Audit reports Progress reports 	X	X	X	X	X
Outcome 5.2	Monitoring and Evaluation (M&E): Verify the effective and efficient use of funds for the realization of the NT2 WMPA objectives through applying best practice approaches and standards									
Output 5.2.1	M&E Framework: To ensure effectiveness and efficiency M&E									

<i>Activity 5.2.1.1</i>	Revise and develop M&E institutions, tools and organizational structure based on the objectives and the Degree 471/PM	WMPA	Implementing Agencies	<ul style="list-style-type: none"> a monitoring tool for each objective is developed The M&E unit is setup in WMPA with job description 	<ul style="list-style-type: none"> Monitoring tools Approved organizational structure Progress report 	X				
Output 5.2.2	M&E Staff Capacity: To enhance effectiveness and efficiency M&E									
<i>Activity 5.2.2.1</i>	Strengthen M&E staff capacity in planning, implementation, and reporting through a training course	WMPA	WMPA	<ul style="list-style-type: none"> All M&E staff are able to prepare M&E plan, implement, and report the activity. 	<ul style="list-style-type: none"> Training reports Performance assessment reports 	X				
Output 5.2.3	Monitoring and Evaluation: To support effectiveness and efficiency M&E									
<i>Activity 5.2.3.1</i>	Develop TOR recruit M&E staff to provide support in M&E activities	WMPA	Consultants	<ul style="list-style-type: none"> A national M&E consultant is recruited and implement the activity 	<ul style="list-style-type: none"> Activity report Progress report 	X				
<i>Activity 5.2.3.2</i>	Regular monitoring by M&E TA, staff, IMA mission and BOD members	WMPA	Consultants	<ul style="list-style-type: none"> Mid-year and annual monitoring are organized 	<ul style="list-style-type: none"> Monitoring reports 	X	X	X	X	X
Output 5.2.4	Annual Audit service: to ensure effective and efficient use of fund									
<i>Activity 5.2.4.1</i>	Audit service			<ul style="list-style-type: none"> Financial expenses are audited every second year 	<ul style="list-style-type: none"> Audit reports 	X	X	X	X	X
Outcome 5.3	Funding Management Funds are sourced and used for the effective implementation and realization of the NT2 WMPA Objectives and mandates under Decree 471/PM									
Output 5.3.1	Funds Management Improved utilization of funds through effective and efficient use									
<i>Activity 5.3.1.1</i>	Provide a training on financial budget planning and reporting	WMPA	Implementation agencies	<ul style="list-style-type: none"> All financial staff in WMPA and implementing agencies are trained 	<ul style="list-style-type: none"> Training reports 	X	X	X	X	X

Output 5.3.2	Infrastructures development									
<i>Activity 5.3.2.1</i>	Maintain WMPA office	WMPA		<ul style="list-style-type: none"> WMPA office and facilities are in good condition 	<ul style="list-style-type: none"> Activity report Progress reports 	X	X	X	X	X
<i>Activity 5.3.2.2</i>	Establish information center.	WMPA		<ul style="list-style-type: none"> an information center is built 	<ul style="list-style-type: none"> Activity report Progress reports 	X	X	X	X	X
Output 5.4.3	Logistics and services									
<i>Activity 5.3.3.1</i>	Purchase office equipments and supply for WMPA Head Office, Khamkert Office, cluster offices and other PIZ	WMPA		<ul style="list-style-type: none"> WMPA and other coordination partners have sufficient office equipment and materials 	<ul style="list-style-type: none"> Activity report Progress reports 	X	X	X	X	X
<i>Activity 5.3.3.2</i>	Uniforms and ID cards for staff	WMPA		<ul style="list-style-type: none"> All WMPA staff and implementing staff receive uniforms and ID cards 	<ul style="list-style-type: none"> Activity report Progress reports 	X	X	X	X	X
<i>Activity 5.3.3.3</i>	Payment for regular office operating expenses (e.g. electricity, insurances...)	WMPA		<ul style="list-style-type: none"> All bills are paid on time 	<ul style="list-style-type: none"> Audit reports Progress reports 	X	X	X	X	X
Output 5.3.4	Planning Workshop									
<i>Activity 5.3.4.1</i>	Annual planning workshops	WMPA	Concern agencies, Village authority, villagers, representatives from NTPC, WB	<ul style="list-style-type: none"> An annual WMPA planning workshop is organized during the end of every year and participated by all key stakeholders 	<ul style="list-style-type: none"> Workshop reports Annual Implementation Plans 	X	X	X	X	X
<i>Activity 5.3.4.2</i>	Next Five Year Planning Workshops	WMPA	Concern agencies, Village authority, villagers, representatives from NTPC, WB	<ul style="list-style-type: none"> A 5 year WMPA planning workshop is organized before the end of SEMFOP II and participated by all key stakeholders 	<ul style="list-style-type: none"> Workshop reports Next 5 year SEMFOP (SEMFOP III) 				X	X
Outcome 5.4	Financial Payment: Payment for front loaded fund to NTPC									
Output 5.4.1	Loan repayment									

<i>Activity 5.4.1.1</i>	Payment for front loaded fund to NTPC in the amount of US\$ 300,000	WMPA		<ul style="list-style-type: none"> • 3 of US\$ 100,000 repayments for front loaded fund to NTPC are made 	<ul style="list-style-type: none"> • Audit reports • Progress reports 		X	X	X	
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