

ANNUAL PROJECT REPORT 2009

United Nations Development Programme Cambodia Tonle Sap Conservation Project 1 January 2009 – 31 December 2009





Project ID & Title: 00038552 Duration: 7 years Total Budget: US\$3,2246,421 Implementing Partners/Responsible parties: Country Programme Outcome: NATIONAL AND LOCAL AUTHORITIES AND COMMUNITIES ARE BETTER ABLE TO CONSERVE BIODIVERSITY AND RESPOND TO CLIMATE CHANGE

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I. Executive summary

The management plan for Stung Sen and Boeung Tonle Chmar and Prek Toal has been discussed and incorporated the entire activities plan for the implementation. There are 52 rangers have equipped increased their skills in data collection, using map, GPS reading and identification of key species of birds, mammals & reptiles rangers' regular practices, quality of data collection and data entry into computer. The patrol use MIST system has been done by rangers at all core areas. Study tour organized for 41 rangers and project staff to Koh Kong for learns experiences on park management, law enforcement, and eco-tourism management.

The MIST User training has provided to MIST field Officer and rangers in three Core Areas and staff from GDANCP. MIST patrol is remarkable improved in all core areas of Tonle Sap Bio-Sphere Reserve. Field data from 3 core areas has been stored at GDANCP. 52 rangers have been equipped and implemented MIST as planned.

Project has produced good achievement for activity of identification school nearest core conservation areas and provides teacher training and eco-club kits. The number of teachers involved in teacher environmental education training and number of school both in target core areas and six provinces around Tonle Sap is higher than expected result. Project is implementing the environmental education programme in 90 schools in six provinces around Tonle Sap and core areas. The implementation of the environmental education programme in 2011 is expected only 66 schools. It means the project achieved exceed the target output of the country programme output of UNDP 2009. This achievement is really supporting the bio-diversity conservation and climate change of country programme outcome.

Livelihood Component has formed 15 groups of self help group with 407 families, with 345 women, have participated in sustainable livelihood program in 3 communes. The participation of women in livelihoods programme is up to 84.7%, 24.7% higher than the expectation (the target for women participation in project, in 2011 is 60%).

There are 3 committees for natural resource management for operational bio-diversity conservation are existing in places and Livelihood Component has formed 13 committees for sustainable livelihood in three core areas. But current formation of committees in three core areas achieve beyond 2011 target.

Gender - A series of training for relevant key stakeholders' involvement such are Core Areas Directors, Staff of GDANCP/MoE, MoEYS counterpart staff, CNMC staff, Local authority and community committees from 3 core areas. There are 85% of women involved in self help group/saving group and 30% of women involve in environmental education (female teachers). The activity of gender will be implemented in 2010 to 2011 of project's output 2.3, under the assistance of Gender Specialist.

Lesson Learnt - School teachers, school principals and school children are interested with environment education programme at target core areas and six provinces around Tonle Sap. Most of families in core target areas are interested to be a member of self help group/saving group. They have diversified activities like micro-business, creative industries and fishing activity.

The risks are more concerned the ability to implement the work plan of UNV Livelihood component, limit capacity of some MIST field officers, fund delay for operations, limit access for patrol of MIST officers and rangers during the dry season and early wet season, destructive fishing gear still use inside core area and some outputs and activities are not implemented in 2009.

Project Issues are concerning some of MIST field officers in the core areas have limit capacity in database update and maintenance, activities in quarter 4 in 2009 are not implemented and experience UNV Volunteers will leave soon, fishing lot may cause difficulty for project operation and implementation, local people still have limit knowledge in environment and natural resource protection, less participation of Natural Resource Management Committee and not clear for UNV fund support for sustainable livelihood component.

II. Implementation progress

Output 1.1: GDANCP/PDE staff demonstrating Core Area Management Capacity

In the first quarterly, there is 167 MoE and PDE staff at all levels in demonstrating Core Area management Capacity. Core Areas are well operated and managed. The core area implementation arrangements through its result strategic framework were discussed and did work plan exercises. We as well conducted one day kick off awareness workshops for 61 local authorities in Battambang (3 women) in order to increase their awareness about the protected area law and provide them capacity in effective law enforcement and management of the conflict among resources users and controllers. In additional, a total of 33 rangers (17 PT rangers and 16 BTC rangers) increased their skills in data collection, using map, GPS reading and identification of key species of birds, mammals & reptiles rangers' regular practices, quality of data collection and data entry into computer is significantly improved in three Core Areas. The MIST team had prevented wildlife poaching and illegal fishing and land encroachment in the core areas. The patrol has identified location where is the most important for wild animals and forest habitats.

Core areas management plans for Stung Sen and Beoung Chhmar had been discussed among all rangers and directors and laid out a detail activities plan for their implementation. Core area director and rangers had allocated staff for particular activities and responsibilities. In addition, 41 staff/rangers is giving a study tour to Koh Kong (both at Batom Sakor national park and Peam Krasob ecotourism community) in order to explore their experience and learning on the park management, law enforcement and management of ecotourism. Keys lesson learnt from study tour could apply in their areas.

The senior management team from UNDP, CNMC, MoE and PM/PD of TSCP visited sites to monitor and to ensure the management of three core areas have enough capacity to carry out the tasks. The rest of rangers and MoE-counterpart, about 40 participants, who had yet visited in Koh Kong made tours exchange visit to Central Cardamom Protected Forest (CCPF) of Pursat and Oral Wildlife Sanctuary of Kampong Chhnang. Rangers have the opportunity to learn some good practices from other protected areas in nCardamom.

Output 1.2: Biodiversity Monitoring enable effective Core Area Management

Conduct field surveys as specified in the protocol, analyze data, and prepare reports on an annual <u>basis</u>: this has included annual assessments of the black and white colonies of storks, pelicans and greater adjutants (which breed from December to May); annual assessments of the Black-headed ibis colonies (which breed from January to May); annual census of Bengal Florican during the breeding season (March – May) in grasslands around Tonle Sap; and participation in the annual census of the Sarus crane (January – April) including in areas around Tonle Sap. In addition, data collection has continued on water snake harvests for the period that they are harvested (June – February). Work has been achieved as desired, and there were no unexpected events.

The annual water bird monitoring report, water snake monitoring report, and non-breeding aggregations of large water birds (including results of Sarus crane census) is completed. On the other hand, continued support to the large water bird protection system. Monitoring has changed in location of the Prek Toal colonies, in the new breeding season and adjusting the locations of guard platforms. Training on MIST for rangers in the Boeng Tonle Chhmar and Prek Toal Core Areas has conducted as planned.

Continue to support MIST implementation, including the control of exotic species. Three exotic species are being added to the MIST data collection, namely Giant Mimosa (*Mimosa pigra*), Apple snails (*Pomacea spp.*), and Red-bellied Pacu (*Piaractus brachypomus*). Of these, detection of the latter will be based around reports from fishermen, as well as observations. Ranger training in the inclusion of these species to the MIST data set will be given during the next set of MIST training. The final training for MIST users conducted with 20 staff attended and practicing of key skills. Trainees had effectively conducted biodiversity monitoring and data collection (e.g. use of maps, readiness of GPS and they are able to identify key species such as birds, mammals and reptiles). Data entry and management are dramatically improved.

Data on large water bird colonies has started after the non-breeding season, with the mapping and marking of the nesting trees, and monitoring of the darter and cormorant colonies. In addition, data on water snake harvests was collected in August. Data have been analysed, and number of reports have been produced.

Output 1.3: Sustainable Financing Mechanisms for Core Area Management are identified – for 2010

Output 1.4: Increased institutional management capacity to monitor and promote the project achievement – not progress

Output 2.1: Environmental Education integrated into formal and informal education system around core areas

There is very good progress in the environmental education. TMAG orientation has provided to Trainer Team, 6 members from MoE and MoEYS. EE concept and methods how to use TMAG has provided to target teachers. Teacher Manual and Activities Guide (TMAG) Orientation and Teacher Training Plan for PIU and provincial/district educational staff conducted in February 2009. The planning of organizing Teacher Training was made and identified. The EE support group was formed and consisted of PIU and district educational staffs from 6 provinces have coordinated/organize the EE workshops and meeting to reflect EE implementation in school.

There were five training of trainers/teachers workshops on environmental education concept and methodology on how to use TMAG were successfully conducted. There are 255 teachers in total with 77 women from 75 primary and lower secondary schools in TSBR Areas. The trained teachers are now using the TMAG in teaching their students. Now most of target schools had been integrated TMAG under the MoEYS' Local Life Skills Curriculum.

TMAG has integrated into National Curriculum's Local Life Skill Program. They emphasised that teaching methods like group activities, teaching tools and energiser are really encouraged school children to learn. Teachers expressed differently regarding the behavior of their kids since EE has been introduced in school. Some of them said that they have observed that the kids now start talking about environment, their resources and illegal activities emerged among them. However, all school teachers and school principals have been encouraged to reflect their teaching value through observing behavior change of kids, their activities and participation.

School component had engaged Live and Learn to provide 2 teacher trainings for 60 teachers (18 women) from 15 new schools in/nearest to CAs about toolkits "School Flipchart". TMAG and School Flipchart, together is proposed to use in Ministry of Education, Youth and Sport's Local Life Skill Program (LLSP) with schools between grade 4 and 9. This will guide teacher to have a better idea how to organize and practices EE with kids in their school. The School Flipchart is a focus practical EE tools being started practicing by trained teacher in December 2009. This will lead to the designing of Eco-club initiative for next step of school program. *We* are approaching environmental awareness and education through informal education system is called **Community Mobile Outreach (CMO)** programme. During the Second Quarter, 1728 (214 are women) of 25 communes are aware and contributing to biodiversity conservation. To date, the programme is reviewed as a successful due a 131 target communes (more than 10,000 people) with 3 main selected subjects identified were completely carried out.

Output 2.2: Core Area communities practicing environmentally friendly livelihoods

There were 51 people with 32 females included 45 SHG committees, 3 rangers, and 3 CC members from 3 CAs of TSBR jointed a two-day exchange visit in November at the project of CBET in Chi Path village of Koh Kong province. The main purpose of the trip was encouraging participants to learn and reflect on how to arrange the community's waste management and community's ecotourism from site visited. 26 community members (24 SHG members and 2 rangers) participated in a two-day exposure visit to Chamcar Bei, Kep Province, to learn about different approaches to community development from Bridges Across Borders South East Asia. Community members expressed a desire to start handicrafts in their communities, both using recycled plastic bags and water hyacinth. The SSC are

now looking at ways in which they can become CBOs in order to access alternative livelihood funding from relevant Commune Investment Plans.

UNV/TSCP delivered the Commercial First Aid (FA) training to relevant local stakeholders with totally 26 trainees, 17 SHG committees, 3 rangers, 3 CC members, and 3 project staffs attended the session. The topic focused on basic principle in FA, bleeding, unconsciousness, respiratory emergency, heart attack, burn and transport patients, fractures, dog bite, snake bite, drowning, body hygiene, and malaria.

In April, the 7 monks from 3 CAs attended the basic training on Buddhism and environmental advocacy from the Association of Buddhists for the Environment (ABE) for 6 days. The session focused on General Environment Concepts, Principle of Buddhism and Environment and Environmental Issues in Cambodia, water bird castle in Prek Toal, garbage management, pesticide and health, and the importance of forest. The trainined monks then provided eco-environmental awareness training to 439 communities with 7 courses (90% females. 3 waste platforms were built recently (December 2009) in 3 villages of Prek Toal CA. In June 2009, 21 community members (15 SSC, 3 Commune Council and 3 rangers) participated in a three-day workshop on financial administration, planning and reporting and roles and responsibilities of the Steering Committees. Currently there are 15 groups with 407 members (3 groups in BTC just replicated in July, 2009) in all CAs with capital total 135,843,900R. The amount of 135,000,000 R was loaned to 395 family members.

On 05 December, the UNV/TSCP celebrated the International Volunteer Day with over 530 people (90% females) in 3 CAs participated under the topic Volunteering for Our Planet engage to volunteerism, environment, and climate change. The community environmental awareness raising is a key to achieve project's goal and objectives. Live & Learn Environmental Education had been engaged to deliver training to SSCs and rangers from CAs. The trained SSCs then replicated environmental awareness campaign to 400 SHG members (90% females) in 3 CAs.

Output 2.3: Gender-biodiversity conservation links in core area indentified and strengthening if possible

Project staff has consulted with Ministry of Woman Affair concerning mainstreaming gender issues in the management of bio-diversity Conservation of Core Areas and consulted ILO Gender Equality Mainstreaming Strategies (GEMS) to organize three alternative trainings for Staff of GDANCP, CNMC, MoEYS, Core Area Managers and Commune Council was organized. The concept of GEMS training intended to develop Gender Strategy of TSCP and interpretation of GEMS concept into the 3 Core Area Management Plan for action. Two training courses related to Get Ahead for Women in Enterprise and Financial Education was organized in November and December 2009.

OUTPUT T.T. GDANCP/PDE Stall	demonstrati	ng core area	management
capacity			
Output Indicators	Baseline	Target	Current status
• • • • • • • • • • • • • • • •	(June/2009)	(December/2011)	(December/2009)
Annual Core Area Management and	Annual,	Annual,	
Implementation Plan	quarterly	quarterly core	
	work plan	area	management
	and report	management	and
	2009	and	implementation
		implementation	plan
		plan developed	developed and
		and actioned by	actioned
		GDANCP	
Core Area Management Plan priority	3 core areas	Priority actions	
actions and costs	management	and costs	priority actions
	plans (2007-	identified and	and costs were
	08)	actioned	identified and

PROGRESS TOWARDS PROJECT OUTPUTS

OLITPLIT 1 1. CDANCD/DDE staff demonst

							actioned
Staff capacity to in management	mplement	core ar	rea	Previous training session delivered (2005-2008) & informal utility assessment	Staff capable implemer core managen plan	area	Staff capacity is built
Cumulative expendit	ure:						USD

There is significant progress in the effective management of core area. The management plan for Stung Sen and Boeung Tonle Chmar has been discussed and incorporated the entire activities plan for the implementation. The Director and staffs of core areas allocated activities and assigned staff for responsibility. The project had initiated to discuss how to institutionalize the core area implementation arrangements through its result strategic framework and work plan exercises. Second, we conducted one day kick off awareness workshops for 61 local authorities in Battambang with 3 women, in order to increase their awareness about the protected area law and provide them capacity in effective law enforcement and management of the conflict among resources users and controllers.

A total of 33 rangers (17 PT rangers and 16 BTC rangers) increased their skills in data collection, using map, GPS reading and identification of key species of birds, mammals & reptiles rangers' regular practices, guality of data collection and data entry into computer is significantly improved in three Core Areas. The MIST team had prevented wildlife poaching and illegal fishing and land encroachment in the core areas and its buffer zones. Additionally, the patrol is also to identify location where is the most important for wild animals and forest habitats

There were 41 rangers including counterpart and project staffs to conduct study tour to Batom Sakor National Park and Peam Krasob Eco-tourism Community, Koh Kong to learn experiences on park management, law enforcement, and eco-tourism management and get key lesson learnt, in order to apply and strengthen their management capacity in core areas.

The output 1.1 is on track under the three 3 strategic results framework developed by the project.

- delivery exceeds plan

delivery in line with plan

 \checkmark

delivery *below* plan

OUTPUT 1.2: Bio-Diversity m	onitoring ena	bles effective	e core area
management			
Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)
1. institutional utility of MIST in core area management	Current MIST information flow system between core area and head office & informal utility	Utility of MIST in core area management increased according to GDANCP	Implemented by GDANCP
2. Giant Mimosa monitoring	assessment Current not integrated into MIST & GDANCP/PDE, community members not train to identify	mimosa and GDANCP/PDE,	Implement in 2010

	or employ preventative measure	identify and employ preventative measure
3. Bio-diversity monitoring	Annual bio- diversity monitoring reports (2005- 2008)	GDANCPentirelyresponsible forcontinued bio-diversityand equipmentmonitoringpurchased
Cumulative expenditure:		

The MIST User training has provided to MIST field Officer and rangers in Prek Toal, Boeung Tonle Chhmar, Stoeung Sen Core Area and staff from GDANCP. The activities and topic delivery were related to: 1) Background of MIST/GIS and reason why MIST is useful for protected area management, 2) database set up, 3) GPS download, 4) data quality check, 5) data entry, 6) report and mapping, 7) Data maintenance, 8) Data backup and restoration and () Database replication export and import.

MIST patrol is remarkable improved in all core areas of Tonle Sap Bio-Sphere Reserve. MIST patrol is to prevent wildlife hunting, forest cutting, and illegal fishing and identify status of potential wildlife threat.

Prek Toal Core Area: Rangers conducted MIST for 252 days during the year. MIST patrol team searched for new breeding colonies of large birds. The record show that the total water birds is 4,887 Asian openbills with 21 Greater Adjutants, 225 Grey headed Fishing Eagles, 760 cormorants, 271 spot-billed ducks, 447 Lesser Adjutants, 509 Painted Storks and 3,954 spotbilled Pelicans (feeding in Prek Toal and adjacent areas).

Stoeung Sen Core Area: Rangers conducted MIST patrol for 141 day within the year. The records shown that 866 openbills, 682 darters, 6 Greater Adjutants, 228 Grey headed fishing eagles, 883 cormorants, 33 Grey herons, 79 immediate egrets, 190 Lesser Whistling Ducks, 72 Purple Swamp hens, 158 Lesser Adjutants, 936 Spot-billed Pelicans, 183 Long Tailed Macague, 619 Silvered Langurs and 1 King Cobra.

Boeung Tonle Chhmar: The patrol conducted for 274 days within the year. Records from MIST patrol shown that there are 15,648 Asian openbills, 3, 162 Daters, 52 Greater Cormorants, 81 Grey Herons, 21 immediate Egrets, 18 Grey headed fishing eagles nets, 809 Lesser Adjutants, 382 Spot-billed Ducks, 1,379 Spot-billed Pelicans, 506 painted storks, 26 longer-tailed macaque and 10 silver langurs.

The activities implemented under GDANCP/WCS/TSCP are great success and contribute to the output 1.2 of TSCP Project as stated in 2009 work plan and the strategic results framework from 2009 to 2011.

delivery exceeds plan

|delivery in line with plan delivery below plan

OUTPUT 1.3: Sustainable Finar	ncing Mech	anisms for (Core Area
Management Identified			
Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)
Realistic options for sustainable and alternative financing of core area management plan implementation	Preliminary information indicates informal use of eco- tourism revenue to cover some operational costs (Prek	Report identifying realistic options for sustainable and alternative financing developed and presented for consideration	2010 action

	Toal 2009)		
Visitor Centers' financial sustainability	Current visitor center costs covered through TSCP (2005-09)to cover some operational costs (Prek Toal)	Business plan developed for visitor centers	2010 action
Cumulative expenditure:			USD
Output 1.1 is planned to implement in 2010			
delivery <i>exceeds</i> plan delivery <i>in line</i> w	ith plan	delivery <i>below</i> plar	ı

Output 1.4: Increased institutional man project achievement	agement capacity	to monitor and	promote the
Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)
Results-based monitoring plan an templates	d Current active reports (2009)	Monitoring plan allows identification and promotion of results and achievements	no progress
Communication Plan	There is currently no TSCP wide communication plan (2009). Current levels of TSCP visibility (n/a)	Communication plan leads to increased project visibility	No progress
Synergies and collaboration with relate projects	d Current collaboration with related projects (n/a)	Increased collaboration and synergies with related projects	No progress
Cumulative expenditure:			USD
The monitoring plan and template for results base management for are not developed under 2009 work plan. The communication and collaboration with other development partners in the region is quite limited. This output is required the assistance of Technical Advisor to TSCP to develop.			

delivery exceeds plan

delivery in line with plan

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OUTPUT 2.1: Environmental Education integrated into formal and informal education systems around core areas									
Outpu	ıt Inc	licators			Baselin (June/20	-		rget ber/2011)	Current status (December/2009)
			Education	(EE)	Current	use	Target	schools	
curric	ulum	in schools			of	EE	include	EE	Target

	curriculum in schools (n/a)	curriculum in weekly life-skills sessions	schools have been trained and implemented EE in local life skills curriculum
Environmental awareness/understanding change among participating teachers and students	Jan 2009, Current awareness level (n/a)	in environmental awareness and understanding	school teachers practice and reflect EE sessions with their kids
Number of target students actively participating in Eco-clubs	There currently no operational Eco-clubs in target schools	actively participating in target schools	The Eco-clubs in target schools have yet implemented
Cumulative expenditure:			USD

1. Target schools have been trained and implemented EE in local life skills curriculum in three core areas. TSCP Project component of Environmental Education (EE) contracted with Live and Learn to conduct EE in local life skills curriculum. Live and Learn Teacher Manual and Activities Guide; and toolkits "School Flipchart" is proposed to use in Ministry of Education, Youth and Sport's Local Life Skill Program (LLSP) for grade 4 to 9. The School Flipchart is a focus practical EE tools that will support the Teacher Manual and Activity Guide (TMAG) in promoting an EE practical learning of both teachers and students. This will lead to the designing of Eco-club initiative for next step of school program. The proposed 'toolkits and TMAG' training is the necessary resource to provide opportunity for teachers to increase their knowledge.

- 2. Project has provided a number of training to teachers and selected school children. Trained teachers and principals expressed that TMAG has been attractive from all teachers and their kids as they learn about their daily life of living. In addition, they emphasised that teaching methods such as group activities, teaching tools and energiser are really encouraged kids to learn.
- 3. The introduction of eco-club workshop was not organized in guarter 4 of 2009.
- 4. Even the eco-club workshop was not organized; the EE component is successful in implementing environmental education in the target core areas.

delivery *exceeds* plan

delivery in line with plan

delivery below plan

OUTPUT 2.2: Core area communities practicing environmental friendly livelihoods

Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)
Number of core area families participating in TSCP supported Self Help Groups	318 CA families participating in TSCP supported self help groups (2009)	20% increased in number of CA families participating in self help groups	Number of self help group/saving group increased

Number of self help groups members with diversified & increased income from environmental friendly livelihoods	Current sources of levels income (2009) of diversified and increased income from environmental friendly of sources incomes income increased income from income in environmental friendly of sources increased increased increased income in environmental friendly					
	livelihoods					
Cumulative expenditure:	USD					
 Early 2009, there were 12 groups with 3 quarter of 2009, the Saving Group S groups in Boeung Tonle Chhmar with volunteers join in the previous group. members are increased up to 407 far 	18 families involved in saving group. In the third teering Committee has replicated three more n 78 members. In July 2009, there were 11 By the end of 2009, the total of saving group nilies. It means the number of saving group's Boeung Tonle Chhmar, 2, 2% in Stoeung Sen					
2. In 2008, most of villagers are involving in fishing activities, not involve more in the alternative livelihood activities. Since the amount of saving was increased by the end of 2008. The borrowers are increased in 2009. There are 395 families have borrowed money from saving group to run their small business such as sell of sugar cane juice, grocery, pig and chicken raising, fish culture, fish gear and fish processing, sell desert. So 97% of saving groups members have diversified income from alternative livelihood activities.						
component is achieved 8% higher that indicated that 30% of the self help gro	project indicator output 1 is shown that this target 2011. In output indicator 2 of this output up members increased diversified income from ct, the member of self help group increased in					
delivery <i>exceeds</i> plan delivery <i>in line w</i>	ith plan delivery below plan					

identified and strengthened if possible						
Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)			
Gender-biodiversity links	Current understanding (n/a)	Gender- biodiversity conservation links identified in report and presented for conservation	No progress			
Cumulative expenditure:			USD			

OLITPLIT 2.3: Conder bio-diversity conservation links in core areas

Project staff has consulted with Ministry of Woman Affair concerning mainstreaming gender issues in the management of bio-diversity Conservation of Core Areas and consulted with ILO Gender Equality Mainstreaming Strategies (GEMS) to organize three training for Staff of GDANCP, CNMC, MoEYS, Core Area Managers and Commune Council in three core areas from 28 and 30 December 2009. The concept of GEMS training intended to develop Gender Strategy of TSCP and interpretation of GEMS concept into the 3 Core Area Management Plan for action.

TSCP-UNDP and UNV have engaged ILO to deliver a series of Gender Training in November

and December 2009. Two training courses related to Get Ahead for Women in Enterprise and training focused on Financial Education. There were 108 trainees with 45 females to attend the training session. The participants were Steering Committee members, rangers, Commune Council members, Provincial Department of Environment Officers in Siem Reap and NUNVs.

While Get Ahead course provided participants to learn about small businesses including grocery, handmade hammock and fish selling and promoted micro-business among women and their families, improved knowledge and skills of micro-business management. Financial Education training was to build the capacity of participants in a better spending management, savings and investment decisions. The result of output delivery under output 2.3 is supported the project expectation.

delivery *exceeds* plan

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delivery *in line with* plan

delivery below plan

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PROGRESS TOWARDS COUNTRY PROGRAMME (CPAP) OUTPUT

OUTPUT 3.1: Capacities of Government and Communities Enhanced for						
Bio-diversity Conservation and Live						
Output Indicators	Baseline (June/2009)	Target (December/2011)	Current status (December/2009)			
 Number of rangers engaged and trained in BC 	67 rangers trained and equipped	67 rangers be equipped to enforce protected area law through MIST	52 rangers have been equipped and implemented MIST as planned			
Number of conservation sites with boundary delineation	2 sites completed	One more site (Prek Toal) completed with boundary demarcation	almost complete, except two more poles will be constructed in 2010			
Number of sites with management plan	3 management plans completed	One more core area (CA) management plan implementation initiated in Prek Toal	Management Plan Implementation is initiated and implemented in 3 core areas			
Communities outreach and school education programme developed and implemented in selected communes around Tonle Sap	Community Outreach and school education programme developed	Communities outreach and school education programme implemented in 25 communes and 66 schools in 6 provinces around Tonle Sap	School education programme is operated in 90 schools with 315 teachers in six provinces and 3 core areas.			
Number of families in conservation sites that have benefited from sustainable	2,100 families	2,100 families (including 60%	15 groups of			

livelihoods programme	benefited	of women)	self help group
		beneficiaries in	with 407 total
		3 communes, in	families as
		3 core areas of	saving group
		Tonle Sap	member (345
		participate in	females) have
		the sustainable	participated in
		livelihood	sustainable
		programme	livelihood
			program in 3
			communes

There are 52 rangers in three core areas and 12 rangers are from Kampong Chhnang and Pursat Province was trained by MIST Specialist from GDANCP. They are all equipped and currently they use MIST system to patrol and monitor the illegal activities in the three core areas. The law of protected areas is enforcing at sites. The project output 1.2 is good achieved a bit exceed project plan. It is reflect to the country programme output indicator.

Boundary demarcation in Prek Toal is almost completed, except two poles are not able to construct. It is due to high water level for construction. This activity will start in the dry season 2010. The incomplete activity of boundary demarcation is not reflected to the country programme output indicator and the output 3.1 of UNDP Country Programme 2009.

The management plan in Prek Toal, Boeung Tonle Chhmar and Stoeung Sen has been initiated and implemented. It is reflected to the indicator of country programme output of UNDP as stated.

The target 2011 of communities outreach and school education programme implemented in 25 communes and 66 schools in 6 provinces around Tonle Sap. This target is under implementing by the component of environmental education component. This component has produced good output within the first and second for school education programme. First round within the TSEMP project framework, the TSCP has provided training to 255 teachers with 77 female teachers came from 75 schools around Tonle Sap Great Lake (six provinces). The second round is focused on 3 core areas. There were 60 teachers with 18 female teachers have been training. They were from 15 schools of three core areas. The total current school education programme is operated in 90 schools with 315 teachers in six provinces and 3 core areas. School follow up is made by the TSCP project. It indicated that by the end of 2009, the Environment Education is achieved higher than the expectation of country programe output.

By the end of December 2009, Livelihood Component has formed 15 groups of self help group with 407 families in total of saving group members with involvement of 345 women, have participated in sustainable livelihood programme in 3 communes. It means the number of women participate in livelihoods programme is high up to 84.7%, 24.7% higher than the expectation. The target families in three communes need achieving 2,100 families. The current status the livelihood component is able to achieve only 407 families. It means the livelihood component could achieve only 19.38% of 2011 target.

PROGRESS TOWARDS COUNTRY PROGRAMME (CPAP) OUTCOME

OUTCOME: NATIONAL AND LOCAL AUTHORITIES AND COMMUNITIES ARE BETTER ABLE TO CONSERVE BIODIVERSITY AND RESPOND TO CLIMATE CHANGE

Outcome Indicators	Baseline	Target	Current status	
	(June/2009)	(December/2011)	(December/2009)	
Pro-poor and integrated national and sub-		12 committees	3 committee	
national policies and plans developed and		based natural	of natural	

implemented by the Government for bio-	resource	resource
diversity conservation	management	management
	sites	and 10
	operational	saving
	promoting bi	committees
	diversity	have been
	conservation	established
	and	at 3 core
	sustainable	areas
	livelihoods	
9	Participatory	Bird species
	bio-diversity	data
	monitoring	collection
	(MIST)	during
	implemented in	operation
	4 conservation	and installed
	sites in Tonle	at GDANCP
	Sap and	
	Northern Plains	

Three Community Committees of Natural resource management sites operational promoting bi--diversity conservation were established (one in Prek Toal, one in Stoeung Sen and another in Boeung Tonle Chhmar).

Livelihood component of TSCP was implemented under the fund support from UNV has established 10 saving group committees, 3 saving group committees were established in Prek Toal, 4 saving group committees in Stoeung Sen and 3 saving group committees in Boeung Tonle Chhmar. The TSCP Livelihood Component has formed one steering committee in each core areas to monitor, manage and guide the saving group committees.

There are 3 committees for natural resource management for operational bio-diversity conservation and 13 committees for sustainable livelihood are functioning in three core areas. The purpose of the committees is to support the Government's policy, national poverty reduction strategy and bio-diversity conservation.

TSCP/GDANCP/PDE/rangers and local people participated in using MIST system to monitor water birds and other species as indicated in project output 1.2, search for new bird breeding nest colonies and patrol for threat and illegal activities in the core conservation areas.

The result of these great outputs are reflected to country programme outcome indicators and contributed to the progress forwards the country programme outcome to respond climate change.

Capacity Development

- 1. 41 staffs and rangers conducted study tour to learn the management experiences, law enforcement and eco-tourism management from the local communities in Batom Sakor and Peam Krasab Protected Area, Koh Kong.
- 2. 255 teachers were from 75 schools around Great Lake and 60 teachers were from 3 core areas have been trained and delivered on Environmental Education Manual/Materials.
- 3. 30 core area's teachers, 30 rangers, 3 Commune Councils, 17 Saving Group Steering Committee members (SSC), 5 MoE-Counterpart, 1 MoEYS staff and 3 TSCP staff have trained on First Aid Commercial in Battambang Province.
- 4. 35 Staff of GDANCP, CNMC, MoEYS, CAs Manager and Commune Council members from 3 CAs participated in Gender Equality Mainstreaming Strategies (GEMS).

- 5. 20 key MIST officers have been strengthened their capacity in data entry, data management and use of map and GPS.
- 6. 60 participants from key executing and implementing agencies, project partners and project staffs attended in the annual forum. The aim of this forum to share lesson learnt in strategy, work plan and activities development toward the rest of 2.5 years (Kampong Som Province).
- 7. 51 people (32 females) including 45 SHG committees, 3 rangers, and 3 CC members from 3 CAs of TSBR joint a two-day exchange visit at the project of CBET in Chi Path village of Koh Kong province on how to arrange the community's waste management and community's ecotourism.
- 8. 26 community members (24 SHG members and 2 rangers) participated in a two-day exposure visit to Chamcar Bei, Kep Province, to learn about different approaches to community development from Bridges Across Borders South East Asia focus on alternative livelihood.
- 9. Collaboration between UNV and ILO organized the TOT training on Get Ahead for Women in Enterprise for 5 days to 29 trainees (11 females) consisting of 19 SSC members, 3 rangers, 3 CC members, 2 Siem Reap PED officers, and 2 NUNVs at Battam Bang. UNV Closely has worked with ILO conducted the TOE training on Financial Education for 3 days to 23 trainees (11 females) consisting of 19 SHG committees, 3 rangers, and 2 NUNVs at Battam Bang. UNV/TSCP delivered the Commercial First Aids training with facilitated by the Cambodian Red Cross for 2 days. 26 trainees were from 3 CAs with 17 SHG committees, 3 rangers, 3 CC members, and 3 project staffs.
- 10. The 7 monks from 3 CAs attended the basic training on Buddhism and environmental advocacy from the Association of Buddhists for the Environment for 6 days. 21 community members (15 SSC, 3 Commune Council and 3 rangers) participated in three-day workshop on financial administration, planning and reporting and roles and responsibilities of the Steering Committees.
- 11. Closely cooperation with Live & Learn Environmental Education organized one day training on the community environmental education flipchart orientation for 10 trainees. The consisted of 2 NUNVs, 3 SSC members, 1 TSCP staff, 1 counterpart, and 3 rangers. School environmental flipchart orientation were done for 5 days to 7 persons, 2 were NUNVs, 3 SHG committees, 1 counterpart, and 1 TSCP staff.

Gender

TSCP has committed to promote Gender Equality Mainstreaming into Tonle Sap Natural Resource Management core areas and Protected Areas. TSCP Project has organized a series of training for relevant key stakeholders' involvement such are Core Areas Directors, Staff of GDANCP/MoE, MoEYS counterpart staff, CNMC staff, Local authority and community committees from 3 core areas. As observed in three target cores indicated that majority of women have involved in self help group/saving group of UNV with high percentage (85% of women – livelihood component of TSCP) and 30% of women have participated in environmental education. As noticed that there is very few of women involve in decision making level at the community. As the present status of output 2.3 is implemented. Gender will play a vital role in conservation and management of bio-diversity and natural resources. In work plan from 2010-2011 will implement the gender in bio-diversity conservation links in core areas.

Lessons learned

1. Lesson Learnt from National Environmental Day

Its first experience for Core Area's Phat Sanday primary school celebrated the World and National Environment Day in their school on 5 June 2009. Even the new event was initiated by TSCP in cooperation with Ministry of Environment and Ministry of Education, Youth and Sports. We found that student were happy to make their own slogans stated to protect environment, save our Tonle Sap Natural Resource and then gathering to collect waste in the school camp. Little girl who study at grade 6, when asking why need to celebrate this event? She responded that this event is important for us and I am so happy because I see all people including community and

Environmental staff (rangers) come together to participate in collecting waste at my school. Waste can course our health problem, so our school camp must be cleaned.

Mr Haeng Monou expressed that "This is the first time we have celebrated World Environment Day" said Mr. Heng Monou, Commune Council Chief of Phat Sonday Commune, adjacent to the Stung Sen biosphere area. "I am very happy to see this community organizing such an event to raise awareness about the environment". School teachers, community fishery groups, self-help groups, students, local authorities and monks involved in World Environment Day". The event has been organized by National UNVs and Environmental Education Specialist.

2. Lesson Learnt from Saving Group Member in Phat Sonday

"My name's Hun Sophea, female, I am living in Phat Sonday Village, Phat Sonday commune Kampong Svay District, Kompong Thom Province. I took responsibility as the chief of saving and credit group. I would like to describe a brief in my saving group, at the beginning, we had 10 people who volunteered to attend the Saving Group and we usually conduct the regular meeting to collect the saving, release loan, and collect the interest. In previous time in my group took the interest 3% from the group member when they borrowed money. Currently my group members increased from 10 to 23 members with the total cash is 12,000,000 Riels and the interest is reduced from 3% to 2% per month. My members were able to borrow from saving group from the amount of 500,000R to 700,000R per families for micro-business. Most of them get loan to do small business, food processing, cloth selling and fishing equipment. In during a 2 day exposure visit at BAB project from 26-27 May 2009, I am so enjoy and received the experiences from Bridges Across Border in Southeast Asia (BAB) project like self-help group, education, health, and handicraft, the bank of cow, pig, chicken, and fish. I would get this experience to practice in my community to improve their livelihood and reduced using natural resource through handicraft activities like weaving, sewing, funky junk products etc for to sell to tourist in high price. So I would like to propose to UNV and BAB supports my community in the following: 1) To provide handcraft creative industry training to my communities weaving, sewing etc and find mart for our products, and 2) Establish the community base ecotourism at Phat Sonday because Steung Sen near route #5 and Phnom. Steung Sen has high potential for visitor to watch monkey in floating forest, nice water forest, floating house and waterbirds. At the ending of interview, I would like to thank to UNV staff and BAB staffs who give me the opportunity to join the exposure visit at Kep town.

3. Lesson Learn from project implementation, activities plan in 2009 and 3 years strategic results framework

As learning from 2009 work plan and strategic results framework from 2009 to 2011, we found that some outstanding activities, some outputs are not produced against the output indicators and the country programme output 3.1 of UNDP. All the outstanding activities are indicated as followed.

- 1. Boundary demarcation in Prek Toal is not achieved against the country output 2009 of UNDP.
- 2. Output 1.3 and 2.3 in 3 years work plan is not achieved (quarter 3 & 4). It is too ambitious output (proposed but no action taken) and time limited for organizing project resource.
- 3. Output 1.4 is not achieved as planned. Project monitoring system and site assessment is not clear in the current status. There is no plan for monitoring and template and no template for reporting.
- 4. The collaboration of TSCP Project with other organizations or development partners in the region is not built as network.
- 5. Document dissemination during quarter 3 & 4 is not completed.
- 6. The implementation structure and framework of TSCP is not clear stated as example of involvement of fishery sector.

From this lesson learnt, all the project stakeholders should sit together and finalize in early stage, allocated appropriate time for each activity and fund release should be smooth flow for activity to be implemented.

III. Project implementation challenges

There are risks counter during the TSCP project implementation in 2009. It was threat to the achievement of project's outcome and impact and caused to the failure contribution of 2009 country

programme output and outcome. The risks are more concerned with daily subsistence allowance of counterpart staff, limit capacity of some MIST field officers, fund delay for operations and indirect fund flow to ranger, limit access for patrol of MIST officers and rangers during the dry season and early wet season, two remaining boundary demarcation points are not completed in Prek Toal, destructive fishing gear still use inside core area and community natural resource management less involvement and some outputs and activities are outstanding in 2009 work plan.

At the same time, project also has issues to be solved in 2010. The issues are concerning the activities in quarter 4 in 2009 are not implemented and experience UNV Volunteers will leaving soon, fishing lot may cause difficulty for project operation and implementation, local people still have limit knowledge in environment and natural resource protection, less involvement of community Natural Resource in Boeung Tonle Chhmar and Stoeung Sen Core Area and not clear for fund support for sustainable livelihood component in 2010.

The risks and issues as stated above should be solved immediately; therefore the TSCP project may not reach the target 2011 and may not contribute to national policy on bio-diversity conservation and climated change.

a. Updated project risks and actions

Project Risk 1: Incentive Payment and Daily Subsistence Allowance

There is regular complains of getting very low DSA rate while travel to the field by government counterparts. It may cause low participation and commitment and challenge to build institutional capacity of implementing agencies.

Actions taken: Review of Daily Subsistence Allowance Rate to target field work should consider.

<u>Project Risk 2</u> - Fund for operation: After MIST training and equipment of the biodiversity monitoring, we observed there is a dramatic progress of enabling capacity of rangers to enforce the law and record data for management responses. However, they had shortage of operation fund for getting regular data collection in the field.

Actions taken: Directly provide operation cost (i.e. fuel) to rangers of each Core Area in amount of US\$150-200 per month for MIST patrolling

Project Risk 3 - Fund Allocation: Fund is allocated for the project activities are limited only for the quarter. As a result, the project often is passive to carry some priority tasks during the first month of the quarter. Lack of fund in operation is causing a delay of the project activities and affects the project achievement.

Actions taken: UNDP/TSCP should allocate a buffer fund for the project activities, especially the first month of the quarter.

<u>Project Risk 4</u> – Patrol: Limit access for patrol to the three core areas during the dry season and beginning of wet season. Boat and foot patrol can access in short distance. Open access to core areas of Tonle Sap Bio-Sphere Reserve for small scale and large scale fishing, led hunting and cultivation (rice) has been practiced in some parts of core areas.

Actions taken: Re-enforcement of Law on fishery, environment and protected areas, provide more training to relevant stakeholders and local communities, especially fisherman through MIST patrol and strengthen collaboration with key actors.

<u>**Project Risk 5**</u>-Two Pole Boundary Demarcation: In Core Area Prek Toal, two remaining boundary demarcation points is not done due to high water for 2 consecutive years. Without these points, it would be difficult for patrolling team to effective enforce the law.

Actions taken: It should modify boundary demarcation modality from towers type to concrete poles. It should be done in the dry season of 2010 instead.

<u>Project Risk 6</u> - Destruction of Water Birds and fish resource: The destructive fishing gear is in use inside the Core Area. It can causes destruction of water birds.

Actions taken: Enhance collaboration with local authority and fishery Administration in implementing law enforcement to stop the illegal activity.

b. Updated project issues and actions

Project Issue 1: Community Natural Resource Management in 2 core areas in Kampong Thom are now less involved in natural resource management in the core area, it is due to encouragement of communities are not done. They do not have diversified income generation support through the alternative livelihood. The benefit of natural resource management is provided to fishing lots.

Actions taken: provide credit scheme, alternative livelihood group and awareness raising, exposure visit, vocational training to their family member and consider on benefit to community.

<u>Project Issue 2</u>: Some activities under livelihood component of UNV in quarter 4 are not implemented by local committees. It was due to the delayed fund allocation.

Actions taken: Proposed to implement the outstanding activities in quarter four 2009 to be implemented in 2010 with available fund and staffs for implementation.

Project Issues 3: There are fishing lot in Boeung Tonle Chhmar and Stoeung Sen Core Area cause difficulty for project operation and implementation, in particular in the open fishing season. Some of them may create problem and cause impact on the environment. Local people still have limit knowledge in environment and natural resource protection.

Actions taken: Request to increase patrolling, provide more training on law enforcement, natural resource management, seeking for participation and support from local communities. TSCP consider requesting for negotiation and close collaboration with stakeholders concerned, particularly fishing lots, fishery Administration and local authority and increase support for local rangers.

Project Issues 4: UNV Fund for three years is completed. The communities practicing environmental friendly livelihoods just move and are not able to manage by community. It will not achieve the 2011 target of country programme output and outcome. Two key volunteers from UNV are leaving soon.

Actions taken: Fund support for Sustainable Livelihood Component should seek in order to carry out the alternative livelihood and assist the communities as well as the three core areas steering committee and consider on leaving of two core staffs.

<u>**Project Issues 5:**</u> In output 1.4 under the work plan 2009 and under the 3 year strategic results framework is not produced. This output is significant for building the capacity and networking of institutional management. It may contribute to the sustainability of bio-diversity conservation and management of core areas.

Actions taken: The activities under output 1.4 should start in 2010 and training on M & E should be provided to the relevant key institution.

Project Issues 6: The campaign for World Clean Up Day was delayed and could not implement at three core areas. It is due to the fund allocation delayed from UNV. It is very important event for people to participate in the project activity and it is also a part the environmental awareness.

Actions taken: Consider allocating fund for implementing this activity in 2010 in output 2.2 of livelihood component.

IV. Financial status and utilization

		CONTRIBUTION		
DONOR NAME	Committed	Received	E	BALANCE
UNDP/GEF	\$ 3,246,420.00	\$ 2,633,337.90	\$	613,082.10
UNDP TRAC	\$ 236,342.58	\$ 236,342.58	\$	-
TOTAL	\$ 3,482,762.58	\$ 2,869,680.48	61	\$ I3,082.10

Table 1: Contribution overview – Jan 2004 to December 2011

Table 2: Annual expenditure by Activity (in Atlas format) from Jan 2009 to December 2009

Activity	BUDGET [2009]	ACCUMULATE EXPENDITURE Q4 2009	BALANCE	DELIVERY (%)
Activity 1: Enhancing capacity for management of biodiversity in the Core Areas	\$ 61,114.20	\$ 61,114.20	\$	100.00
Activity 2: Developing system for monitoring and management of biodiversity	\$ 43,812.59	\$ 43,812.59	\$	100.00
Activity 3: Promoting awareness, eduction and outreach on biodiversity conservation in the TSBR	\$ 63,755.12	\$ 63,755.12	\$ -	100.00
Activity 4: Management	\$ 131,743.51	\$ 128,956.76	\$ 2,786.75	97.88
Activity 7: Institutionalize effective management and monitoring of core area for biodiversity conservation	\$ 63,000.00	\$ 55,422.41	\$ 7,577.59	87.97

Activity 8: Core area communities aware of and constributing to biodiversity conservation	\$ 61,768.00	\$ 63,038.46	\$ (1,270.46)	102.06
Total	\$ 425,193.42	\$ 416,099.54	\$ 9,093.88	97.86

Table 3: Cumulative expenditure by Activity (in Atlas format) - 1 Jan 2009 to 31 December 2009

DONORS	Activity	BUDGET [2009]	ACCUMULATE EXPENDITURE Q4 2009	BALANCE	DELIVERY (%)
	Activity 1: Enhancing capacity for management of biodiversity in the Core Areas	\$ 61,114.20	\$ 61,114.20	0.00	
	Activity 2: Developing system for monitoring and management of biodiversity	\$ 43,812.59	\$ 43,812.59	0.00	
GEF	Activity 3: Promoting awareness, eduction and outreach on biodiversity conservation in the TSBR	\$ 63,755.12	\$ 61,217.12	2,538.00	97.51
	Activity 4: Management	\$106,743.51	\$ 115,342.51	-8,599.00	
	Activity 7: Institutionalize effective management and monitoring of core area for biodiversity conservation	\$ 43,000.00	\$ 32,689.36	10,310.64	
	Activity 8: Core area communities aware of and constributing to biodiversity conservation	\$ 46,768.00	\$ 41,923.76	4,844.24	
GMS(inse	rt%,see donor agreement)				
Sub Total	UNDP/GEF	365,193.42	356,099.54	9,093.88	
UNDP TRUC	Activity 4: Management	25,000.00	16,152.25	8,847.75	100.00
	Activity 7: Institutionalize effective management and monitoring of core area for biodiversity conservation	20,000.00	22,733.05	-2,733.05	

	Activity 8: Core area communities aware of and constributing to biodiversity conservation	\$ 15,000.00	21,114.70	-6,114.70	
GMS(inse	rt%,see donor agreement)				
Sub Total	UNDP TRUC	60,000.00	60,000.00	0.00	
TOTAL		425,193.42	416,099.54	9,093.88	97.86

Annexes



Annex 1. Budget and Expenditure of UNDP/TRUC/GEF Fund in 2009





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Alternative Livelihood

Alternative Livelihood



First Aid Training

First Aid Training