



COBSEA
COORDINATING BODY ON
THE SEAS OF EAST ASIA



**SIDA'S PROJECT ON SPATIAL PLANNING IN THE
COASTAL ZONE-DISASTER PREVENTION AND
SUSTAINABLE DEVELOPMENT**

FINAL PROJECT REPORT

CAMBODIAN MINISTRY OF ENVIRONMENT

FEBRUARY 2013

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I. COUNTRY BACKGROUND

Cambodia is a least developed agrarian country with over 80% of people living in rural areas. It has 435km coastline along the Gulf of Thailand and lies along four provinces: Koh Kong, Kampot, Sihanoukville, and Kep. The seaward boundary of the coastal zone has been delimited as the outer limit of the Exclusive Economic Zone (EEZ) with an area of 55,600 km². The coastal zone is currently being subjected to various stresses, for example, mangrove deforestation, coral reef/sea-grass destruction, coastal erosion, climate change, sea level rise, and others. The rapid loss of forest cover and mangrove occurred mainly in Kampot and Sihanoukville. If this condition continues into the future, it is not only destroyed the coastal ecosystem but its attractiveness for tourism and recreations and other economic development opportunities will also decline.

In addition, Cambodia is vulnerable to climate change impact due to its low adaptive capacity. The country has witnessed floods and droughts that have resulted in considerable economic losses, infrastructure damages and fatalities. In 2009, Typhoon Ketsana caused over 40 dead and casualties, damaged significant agricultural crops, road and other rural infrastructures, schools and households. The current consensus disclosed that climate change is likely to increase the frequency of extreme events such as droughts and floods. In addition, in 2011 Cambodia suffered from severe flood which lost hundreds of human lives, properties, infrastructures, agriculture productivities, animals and impacted on human health in which it was estimated to cost 520 million US dollars (NCDM¹, 2011).

The Royal Government of Cambodia (RGC) is committed at the national and international levels to address the challenges of climate change and, therefore, ratified the United Nations Framework Convention on Climate Change (UNFCCC) on 18 December 1995 and acceded to the Kyoto Protocol on 04 July 2002. This indicates the country's commitments to work with the international community to reduce Greenhouse Gas (GHG) emissions and the Government's concerns about the country's vulnerability to the impacts of climate change. It was reported that 1 m of the sea level rise, the total area of about 25 thousand ha of Koh Kong province will be inundated permanently and this will expand to 38 thousand ha if the sea level rise is 2m (draft SNC², 2012). It was also indicated that the occurrence of high tide in the coastal area will be inundated the lowland area of the coastal zone temporarily.

The project '*Spatial Planning in the Coastal Zone - Disaster Prevention and Sustainable Development*' was developed by the Coordinating Body on the Sea of East Asia (COBSEA) Secretariat as a post-tsunami project during 2006 and it was approved by Swedish International Development Agency (SIDA) for funding in early 2009. It is a 3-year project focusing on spatial planning in coastal areas with an overall goal to prevent/reduce the impacts from natural disasters, climate change and sea-level rise, and to promote sustainable development of coastal areas through the application of spatial planning. It is implemented in three phases: **Phase 1**: Produce a Regional Resource and Guidance Document for the integration of new concepts, such as climate

¹ NCDM-National Committee for Disaster Management

² SNC-Second National Communication

change adaptation, disaster-risk reduction, ecosystem-based management and results-based management into existing coastal spatial planning policies and procedures; **Phase 2:** Organize national consultations and planning of national adaptation of the Regional Resource Document; and **Phase 3:** Capacity building, national adaptation, demonstrations.

In order to implement the phase-3, the Ministry of Environment (MoE), the National Focal Point for COBSEA has signed a contract with UNEP which represented by COBSEA secretariat on 09 March 2012 and the first will provide the latter services including ***the translation of regional resource document into national language and compiled national resource document accordingly, preparing the training syllabus, organizing a national consultation to approve on the resource document and syllabus simultaneously and finally organizing training the trainer.***

II. METHODOLOGY

In order to ensure tangible outcomes of the project, the Ministry of Environment signed an official contract with ***Coastal Project Implementation Team (CPIT)*** to conduct the activities with the overall management and coordination by National Coordinator and National Focal Point. The CPIT is responsible for:

- Translation of Regional Resource Document into National Language;
- Developing a National Resource Document in National Language;
- Developing a Training Syllabus in National Language;
- Organizing a National Consultative Meeting to review and approve on the National Resource Document and Training Syllabus;
- Organizing a National Training Course for the National Officers and Local Authorities; and
- Developing Report.

III. PROJECT ACTIVITIES

As provided in the contract with COBSEA, MoE will implement the following phase-3 activities:

1. Translate the Regional Resource Document into National Language;
2. Develop a National Resource Document in National Language;
3. Develop a Training Syllabus both English and National Language;
4. Organize a National Consultative Meeting to review and approve on the National Resource Document and Training Syllabus relatively;
5. Conduct a National Training Course; and
6. Develop Project Report.

IV. PROJECT IMPLEMENTATION AND ACHIEVEMENTS

The project has fully and productively achieved the object and activities including:

1. MoE signed a contract with UNEP on 09 March 2012;
2. MoE nominated a National Coordinator, **Mr. Koch Savath**, signed a contract with UNEP on 15 March;

3. MoE signed a contract with CPIT on 26 March 2012;
4. CPIT attended the **Training the Trainer on Spatial Planning in the Coastal and Marine Zone of the East Asian Seas Region** organized by COBSEA on May 14 – 18, 2012, in Phuket, Thailand. The Cambodian participants and their affiliations are as follows:
 - ① Dr. Meng Bunnarith, Director of Department of Land Management, Ministry of Land Management Urban Planning and Construction;
 - ② Mr. Suy Thea, Director of Kompot Environmental Department;
 - ③ Mr. Hak Mao, National Coastal Expert, Chief of Vulnerability and Adaptation Assessment Office;
 - ④ Mr. Prak Visal, Vice Chief of Provincial Hall, Sihanoukville Province;
 - ⑤ Mr. Chhun Seiha, Vice Chief of Vulnerability and Adaptation Assessment Office, Ministry of Environment; and
 - ⑥ Mr. Ly Ratana, Lecturer at Svay Rieng University

Mr. Koch Savath, Deputy Technical Director General, the Ministry of Environment is the Project Focal Point and National Coordinator of the process. The team identified the country needs, challenges and the approaches of Spatial training with the syllabus which has been finalized and endorsed by the Government.

5. **National Consultative Meeting** held on 25th September 2012 at Almond Hotel, Phnom Penh chaired by **H.E. Mr. Khong Sam Nuon**, Secretary of State, the Ministry of Environment (MOE) and coordinated by **Mr. Koch Savath**, Deputy Director General of Technical Affairs and the COBSEA Focal Point with more than 10 senior and technical officers from Line Ministries. The meeting is intended to review and comment on National Resource Document and Training Syllabus subsequently. As a result, these two main documents were approved. Attached as Annex I is the summary report of the meeting.
6. **Translation of the Regional Resource Document (RRD) into National Language**

The RRD was translated into National Language with 143 pages covering five parts: **Part One:** Introduction to the resource document and how to use it document for planning; **Part Two:** Spatial Planning Frameworks and Approaches in the EAS Region; **Part Three:** Emerging Issues and Modern Management Approaches including Ecosystem-based Management in the Coastal and Marine Environment, Hazard and Risk Management and Spatial Planning, Climate Change: A Special Set of Emerging Issues and Threats, and Comprehensive Spatial Planning for Land and Sea; **Part Four:** The New Planning Paradigm; and **Part Five:** Application of Emerging Concepts in the Coastal Spatial Planning Process.

7. **National Training Course on Coastal Spatial Planning to Address Disasters and Climate Change** held on 01-03 October 2012 in Kampot province co-chaired by **H.E. Mr. Khong Sam Nuon**, Secretary of State, Ministry of Environment (MOE), **H.E Saut Yea**, Vice Governor, and **Mr. Reynaldo F. Molina**, Representative of COBSEA. The training was aimed to introduce the basic concepts and terminologies of coastal and marine spatial plan, coastal emerging issues, climate change, and disaster risk reduction to the Government and Non-governmental officers, and other key stakeholders; to introduce and share knowledge of management approaches for coastal and marine spatial planning to address the emerging issues in the coastal zone; to introduce and build capacity on new approaches for coastal and marine spatial planning management to different stakeholder especially senior management levels and practitioners; to introduce holistic approaches for coastal zone management and development in Cambodia by introduce best practices from other countries especially countries with similar geography and economic development; and to enhance coordination, cooperation, and dialogue among Governments, Civil Societies, Research Institutes, Academia and Local Communities to ensure sustainable coastal management and conservation.

This training participated by more than 50 participants including senior management and technical officers from Line Ministries, coastal provinces, Academia, NGOs, and Local Communities. It was a productive training with active participation and they want to conduct similar training in their respective provinces if the financial support is provided.

8. **National Resource Document on Integrating of Coastal Spatial Planning to Address Emerging Coastal Disasters and Climate Change** approved by Line Ministries in the National Consultative Meeting. It is divided into **Two Parts** namely: **Part I: Spatial Planning in the Coastal Zone of the East Asian Seas Region: Integrating Emerging Issues and Modern Management Approaches**. In this chapter divided into **Five Chapters: Chapter One:** Introduction to the resource document and how to use it document for planning; **Chapter Two:** Spatial Planning Frameworks and Approaches in the EAS Region; **Chapter Three:** Emerging Issues and Modern Management Approaches including Ecosystem-based Management in the Coastal and Marine Environment, Hazard and Risk Management and Spatial Planning, Climate Change: A Special Set of Emerging Issues and Threats, and Comprehensive Spatial Planning for Land and Sea; **Chapter Four:** The New Planning Paradigm; and **Chapter Five:** Application of Emerging Concepts in the Coastal Spatial Planning Process.

While, **Part II: Cambodia' Coastal Spatial Planning: Integrating Emerging Issues and Modern Management Approaches** classified into **Six Chapters: Chapter One:** Overview of coastal zone of Cambodia; **Chapter Two:** National policies, strategies, legal frameworks related to coastal management and development: Environment, Climate change, Land management and spatial planning, Disaster risk reduction and management, and Marine merchant and oil spill management; **Chapter Three:** Case study of coastal spatial planning in

Sihanoukville province; **Chapter Four:** Terminologies on environment, climate change, disaster, marine and coastal zone use and management; **Chapter Five:** National Training Syllabus; and **Chapter Six:** Results and Lessons-Learned from project implementation. Aside from that, this chapter, one annex is added to summarize related national laws, policies, and strategies related to coastal zone management, coastal spatial planning and climate change as requested during the National Consultative Meeting. Attached as Annex II is the Final National Resource Document.

9. **National Training Syllabus on Integrating of Coastal Spatial Planning to Address Emerging Coastal Disasters and Climate Change** approved by Line Ministries during the national consultative meeting, and based on the results and lessons learned from the national training course. Attached as Annex III is the Final National Training Syllabus. and

10. **National Training Report on National Training Course on Coastal Spatial Planning to Address Disasters and Climate Change** submitted to COBSEA secretariat. Attached as Annex IV is the National Training Report.

V. FINANCIAL REPORT

Annex V is the summary of expenditures of the implementation of Phase 3 activities in Cambodia.

VI. RESULTS AND LESSONS LEARNED

The project on *'Spatial Planning in the Coastal Zone - Disaster Prevention and Sustainable Development'* has been implemented since 2010; since it was started, it has provided very useful and significant opportunity to Cambodian delegates including National COBSEA Focal Point and National Coastal Expert to engage and participate with the regional teams and International Consultants to discuss, comment and share their extensive and practical experience on the development of the **Regional Resource Document** which is the fundamental document for respective member countries to adapt to and implement accordingly through the Regional workshops. In addition, this project was gathered Cambodian officers from different Ministries to discuss and share comments on the national capacity building needs through the National Consultative Meeting participated by COBSEA representatives. In this meeting, we were able to identify the needs, gaps, and opportunity for concrete and tangible implementation.

Furthermore, after the contract was signed between the Ministry of Environment (MoE), and UNEP which represented by COBSEA secretariat on 09 March 2012, it provided further opportunity for Cambodian team to engage in various activities in which the **Regional-Training-the-Trainer** was very well noted and productive. This training provided Cambodian team as followings:

- Gaining knowledge and experience on coastal spatial planning;
- Improving existing capacity for coastal zone management;
- Improving coordination among the key stakeholders for coastal zone management and development;

- Being able to mainstream good practices for coastal spatial planning and integrated coastal zone management from other countries into Cambodia's circumstances;
- Understanding the basic concept and terminologies of coastal and marine spatial plan, coastal emerging issues, climate change, and disaster risk reduction and being able to share this knowledge and experience to Cambodian stakeholders; and
- Understanding holistic and new approaches for coastal and marine spatial planning management.

Having attended the **Regional Training the Trainer**, Cambodian team was able to implement the phase-3 successfully and timely. The followings achievements have been made:

- The translation of RRD into National Language that will be useful for all Cambodian officers and people to read and understand the meaning of the document so that they can use where appropriate. We understand that Cambodian officers and people are limited English Language, therefore the translation can help them to be able to read and adapt to easily;
- The compilation of a National Resource Document by integrating the RRD which will become the first, useful and reference document in Cambodia related to coastal spatial planning to address emerging issues and climate change. It is developed in national language so all Cambodian stakeholders can read and understand easily. From this document, they can come up with ideas and initiative to apply in a real situation;
- Developing a National Training Syllabus which was used for National Training the Trainer;
- Organizing a National Consultative Meeting to approve on both RRD and Training Syllabus; and
- Organizing a National Training the Trainer for coastal spatial planning to address emerging issues and climate change. The trainers were those who attended the Regional Training the Trainer in Bangkok and other experts from the Government institutions, NGOs, and Academia. They made use of the knowledge and experience earned during the training and the materials to share and introduce to the participants. This training provided knowledge and experience to Government officers, local authorities, academia, and NGOs to understand the concepts and approaches to address disaster risk and climate change so that they can share this knowledge with their respective institutions and provinces. In addition, the participants are expected to conduct similar training in their respective provinces if they find the financial support.

As it has been reported, the project on ***Spatial Planning in the Coastal Zone – Disaster Prevention and Sustainable Development*** has provided a lot of benefits both theory and practice to Cambodian people. It can be concluded that without this project, Cambodia could not achieve a lot of activities as described above.

To take this opportunity, as a member of COBSEA countries and a recipient of SIDA support project, Cambodia strong encourages SIDA to continue providing support for concrete implementation for coastal resource conservation and management, and building Cambodian resilience to climate change and other disasters to all coastal provinces. Cambodia desperately needs the support both technical and financial one for the sake of developing its nation in a sustainable and blue economic manner.

ANNEX V: TOTAL SUMMARY OF EXPENDITURES

Description		Actual Expense USD	Total Budget USD	Balance USD		
Mr. Hak Mao	National team leader	7,000.00	46,000.00			
Mr. Suy Thea	Project assistant	1,600.00				
Mr. Chun Seiha	Project assistant	1,600.00				
Mr. Uon Sokunthea	Project assistant	1,600.00				
Ms. Tin Sophors	Admin assistant	1,600.00				
Mr. Khairul HAFIZ	International consultant for developing training syllabus	2,500.00				
Dr. Meng Bunnarith	National consultant for spatial planning	2,000.00				
Mr. Soth Kungkolmony	National consultant for disaster management	1,800.00				
Mr. Phoung Pichponaray	Translator	2,600.00				
Mr. Mak Sidet	National consultant for oil spill management (man- made disaster)	1,500.00				
National Consultative Meeting ³	25 Sept 2012, Almond Hotel, Phnom Penh	2,110.00				
National Training Course ⁴	1-3 October 2012, Kampot Province	19,090.00				
Printing, copy and distribution		1,000.00				
Total		46,000.00			46,000.00	00.00

Checked and verified by

KOCH SAVATH

Prepared by

HAK MAO

³ Detail description in annex VI

⁴ Detail description in annex VII

ANNEX VI: SUMMARY OF EXPENDITURE FOR NATIONAL CONSULTATIVE MEETING
25 September 2012
Almond Hotel, Phnom Penh

Description	Person	Unit Price	Amount
Meal	16	24	384
Participants' travel allowance	16	50	800
Backdrop	1	180	180
Chair	1	300	300
Print and Copy		76	76
Minute and administration	1	300	300
Messenger and communication	1	70	70
Total			2110

Checked and verified by



KOCH SAVATH

Prepared by



HAK MAO

**ANNEX VII: SUMMARY OF EXPENDITURES FOR NATIONAL TRAINING
1-3 October 2012 in Kampot Province**

Nº	Description	No. of people	No. of day	DSA	Amount
1	Food for participants	50	3	7	1050
2	Refreshment for participants	50	3	3	450
3	Material for participants				150
4	Photocopy of hand-out materials				100
5	Backdrop				180
6	Banner				100
7	Honorarium fee	2			700
8	Travel allowance for participant from Kampot Province	15	3	30	1,350
9	Travel and DSA allowance for participant from Phnom Penh	12	4	100	4,800
10	Travel and DSA allowance for participant from Kep Province	5	3	50	750
11	Travel and DSA allowance for participant from Koh Kong Province	3	4	100	1,200
12	Travel and DSA allowance for participant from Sihanoukville	3	4	100	1,200
13	Travel and fee for presenters (Speakers)	13	4	120	6,240
14	Car rental		4	80	320
15	Fee for Messenger and communication				200
16	Note taking and reporting				300
	TOTAL				19,090

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