



Scoping Studies for Feasibility Study of Adaptation Projects in Key Sectors

Under the technical assistance Mainstreaming Climate Resilience into Development Planning, the Ministry of Environment organized a scoping study in five provinces to generate information about existing climate change adaptation initiatives and identify potential climate resilience investment projects in agriculture, water resources management and transport and urban development. The information will be used to select projects for full feasibility analysis and proposal development. The proposals will then be submitted to international and national funding sources for adaptation financing.



The studies were conducted from February 29 to March 25, 2016 and led by **H.E. Prof. Dr. Sabo Ojano**, Secretary of State, MoE and SPCR Coordinator. The scoping study team collaborated closely with provincial authorities in Pursat, Tboung Khmum, Prey Veng, Battambang, and Kampong Thom as well as adaptation working group from various key ministries such as Ministry of Agriculture, Forestry and Fisheries, Ministry of Rural Development, Ministry of Water Resources and Meteorology and Ministry of Public Works and Transport.

The scoping team interviewed commune chiefs, commune council members, community and project staff as well as visiting locations to observe the real situation of multiple use reservoirs, irrigation, urban drainage and flood protection, slope stability in roads, bridges, culverts, jetties, flood plain and lowland agriculture.



KEY FINDINGS: Extreme Water Shortage

During the study, the team found out that communities across various provinces particularly in some communes of Prey Veng, Battambang and Pursat provinces are vulnerable to drought or delayed rain, resulting in limited availability of water for farming. Some communities in those provinces do have sub canals, but there is just not enough water in the main canal. Generally, farmers' income is generated from three main sources including rice transplanting, animal husbandry, and vegetable gardening around their home. In the communities visited for the scoping studies, households were using deep groundwater wells to meet their production and domestic water needs, with most households having at least two such wells. The use of deep wells were creating problems for the families to pay for gasoline to pump water. With so many families using the same strategy, groundwater levels are getting lower and lower. Some wells cannot be pumped at all in the dry season due to the high demand across all farmers. The cost of pumping water is adding to production costs and farmers are having difficulty to make ends meet.



The water situation is becoming such a challenge that the Royal Government of Cambodia issued a circulation (December 23, 2015) to farmers to produce only one summer rice crop this year. Water available after one crop was to be kept for daily use and crop diversification. This circulation was made when the Ministry of Water Resources and Meteorology forecasted that Cambodia would be impacted by the El Nino weather patterns from February until the end of June 2016, likely to result in a late and lower rainfall wet season this year. The maximum temperature is also expected to increase potentially leading to drought. As a result Cambodia may have water shortages until mid July 2016. If there is a new La Nina weather pattern, Cambodia could have heavier than usual rain. Farmers have adapted to the dry conditions by changing the rice cultivation practice from transplanting paddy in wet fields to scattering seeds on the dry field, digging ponds, rainwater harvesting and other techniques to conserve water. But, more policies and systems to manage the groundwater are needed before uncontrolled pumping permanently damages the groundwater table. The scoping study identified the need for more investment in mechanisms to improve management of groundwater for communities in all seasons across Cambodia. Such measures will be integrated into the adaptation proposals to be developed by MCRDP following this scoping assessment and the feasibility studies to be made later in the year.



Climate Change Adaptation in Practice

The Strategic Program for Climate Resilience and many other initiatives in Cambodia are researching, developing and sharing practices to make the country's development investments more climate resilient. Many of the practices come from individuals and communities that are finding ways to adapt to changing conditions. Climate Change Adaptation in Practice is a regular MCRDP news feature to share some of these stories.

The Project for Agricultural Development and Economic Empowerment (PADEE) has been implemented by Ministry



of Agriculture, Forestry and Fisheries in collaboration with IDE and other stakeholders in Prey Veng Province since 2012. This initiative is supporting farmers to diversify their on-farm income generating activities to use less water. In Prek Kandieng Commune of Peam Ro District, farmers have started to grow water melon from January to April. Though farmers traditionally grew rice, they realize now that water melon uses less water and they can generate a higher income. Water melon requires more labor which can be a challenge in rural areas where adult family members leave to work in the city. But, with the extra income farmers are adapting by hiring extra labor when they need it. Overall, farmers are able to double their income even when accounting for the extra production costs.



Another example is chicken raising. Ms. Yoy Thy, 34 years old from Prey Khnes village of Me Sang district in Prey Veng province has become more interested in chicken raising as for income as it does not require much water which is not as readily available as in the past. By raising chickens, she can also take care of domestic tasks. After attending a training on chicken raising in 2012, Yoy Thy and other villagers have increased chicken production to earn from 40,000 to 50,000 Riel (USD 10 to 12) per day.

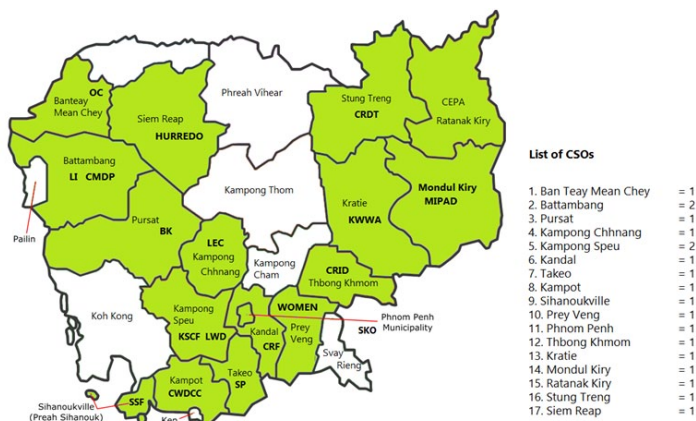
Other farmers in the area, especially women, are adapting to the water shortage, using drip irrigation for their agriculture production.

As there is no water available in the canal, a farmer Chhorn Soeurn starts pumping water from the wells and artificial pond to irrigate her crop using the drip irrigation system save labor time. The majority of farmers do home vegetable gardening for both household consumption and for sale. They can earn up to 20,000 Riel (USD5) per day. Some farmers are growing vegetables in their rice fields after harvesting the rice.

Civil Society Support Mechanism for Climate Resilience

The Civil Society Support Mechanism, a key component of the technical assistance *Mainstreaming Climate Resilience into Development Planning (MCRDP - ADB TA-8179 CAM)* is providing small grants to civil society organizations to implement Community Based Climate Change Adaptation (CCA) and Disaster Risk Reduction (DRR) projects and mainstream CCA and DRR into their operations. This grant mechanism is implemented by Plan International under the Strategic Program for Climate Resilience, executed by the Ministry of Environment and managed in Cambodia by the Asian Development Bank with financial support from the Climate Investment Funds and other donors. The grants – ranging from \$40,000 to \$100,000 are being awarded on a competitive basis for projects of up to 18 months. From 136 Expressions of Interest initially received, the comprehensive civil society partner selection process, which began last August 2015, is coming to an end. 19 finalist CSOs are putting final touches to their proposals before those are submitted onward to MoE and ADB for approval in April. The portfolio of these 19 finalists spans a wide variety of sectors of intervention: agriculture, irrigation, water supply, urban infrastructure, health and sanitation, natural resources management, education, livelihood and income generation, mainstreaming CCA and DRR into development planning. Some partners have a special emphasis on various vulnerable groups such as women, youth and children, ethnic minorities, or the urban poor.

The project covers 17 provinces in Cambodia:



On March 21-24th 2016, a second 4-day comprehensive training was given to the CSOs on the topic of: Managing Community Based Adaptation Projects. The training event held in Kampong Thom aimed to:

- Provide more context to the project with Government and Donor strategies and policies on Climate Change from MOE and ADB,
- Provide practical skills and tools to partner CSOs so that they can successfully implement projects in compliance with ADBPlan and specific Project standards (contractual arrangement, M&E, financial regulation, reporting, knowledge product requirements), and
- Reinforce and add onto selected cross-cutting themes from Training #1 (integrated water management, DRR, mainstreaming CCA/DRR into Commune Development Plans, renewable energy, gender and Climate Change, youth and Climate change and DRR, etc.)



Final proposal will be submitted for approval early April 2016. The sub-projects are expected to start upon approval on a rolling basis throughout the second quarter of 2016.

The project will be actively seeking to build linkages and strengthen collaboration between its partner CSOs and relevant SPCR programs working in agriculture, flood management, biodiversity and conservation, urban infrastructure, and institutional capacity development. These small grant projects can provide an opportunity to both roll out and inform government policies in regards to Climate Change and DRR, and apply and adapt some of the technical, screening and M&E models developed and promoted from within the SPCR family. A meeting between the 19 CSOs and members of the SPCR Coordination Committee is expected to take place towards the end of April in order to kick-start this collaboration.



Opening Ceremony and Participants, CSO Training #2 in Kampong Thom Province

For further information about the project or interest in collaboration, please contact Mrs. Jeanne Everett, Team Leader, everett.jeanne@plan-international.org, or Mr. Yun Sina, National Capacity Building Specialist, sina.yun@plan-international.org.

Training Workshop on Climate Risk Screening Tools

On Monday April 4, 2016, 40 senior managers and other officials from key government bodies, NGOs, CSOs, and development partners participated in a “Training Workshop on Climate Risk Screening Tools” at the Cambodiana Hotel, Phnom Penh. The Workshop was hosted by the Department of Climate Change, General Secretariat of the National Council for Sustainable Development in the Ministry of Environment as part of the Asian Development Bank technical assistance “Mainstreaming Climate Resilience into Development Planning (MCRDP)”.



The participants identified the most appropriate tools to apply in screening for climate risks in designing water resources, agriculture and infrastructure projects in Cambodia. The objectives for this training workshop are to:

- Present the climate risk screening tools applied in Cambodia and in other countries
- Discuss and trial the screening checklists in the key sectors: Water Resources, Agriculture and Infrastructure

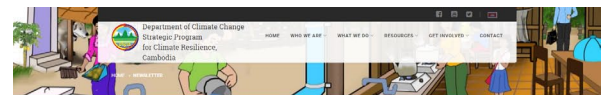
- Develop and identify appropriate climate risk screening tools by sector: Water Resources, Agriculture and Infrastructure

The new tools are critical for effective climate risk assessment of investment projects, and will complement existing tools the Ministry of Environment uses to screen for environmental and social impacts. Topics also covered the knowledge required for successful application of screening from different types of projects prepared by the key target ministries (Ministry of Water Resources and Meteorology, Ministry of Agriculture, Forestry and Fisheries, Ministry of Public Works and Transport, Ministry of Rural Development) for the Strategic Program for Climate Resilience (SPCR).

Introducing the Newly Designed SPCR Website in Cambodia

The www.spcrcambodia.org web site has been revamped with more features to provide up to date information on climate resilience in Cambodia. Check out some of these new features including:

- A separate web page about each of the 7 SPCR Investment projects:
- Climate proofing roads <http://www.spcrcambodia.org/cpr.php>
- Climate proofing infrastructure - Towns <http://www.spcrcambodia.org/cpi.php>
- Flood resilient infrastructure development <http://www.spcrcambodia.org/frid.php>
- Promoting climate resilient agriculture <http://www.spcrcambodia.org/promotingclimate.php>
- Climate proofing of agriculture <http://www.spcrcambodia.org/promotingclimate.php>
- Enhancement of flood and drought management : <http://www.spcrcambodia.org/promotingclimate.php>
- Climate proofing of rural roads : <http://www.spcrcambodia.org/promotingclimate.php>
- Upcoming Events - See what SPCR activities are planned in the coming days and weeks by going to
- New publications – Download the latest publications about climate resilience in Cambodia
- And much, much more ... Link to our facebook page and tell us what you would like to see in the new site: <https://www.facebook.com/spcrcambodia/>



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Scoping Studies for Feasibility Study of Adaptation Projects in Key Sectors
 Utilize the technical assistance Maximizing Climate Resilience into Development Planning, the Ministry of Environment requires a scoping study in the provinces to generate information about screening climate.



Climate Change Adaptation in Practice
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Civil Society Support Mechanism for Climate Resilience
 The Civil Society Support Mechanism a key component of the technical assistance Maximizing Climate Resilience into Development Planning (MCRP - ACS) (R.4079 - CAME) is providing small grants.

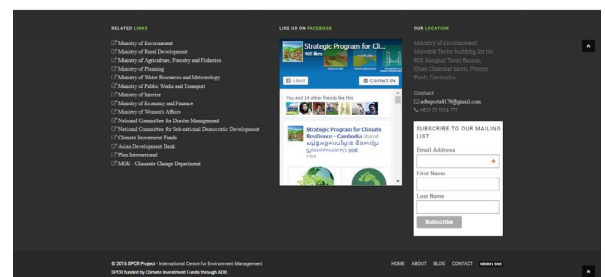


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- Publications
- SPCR NEWS in Khmer, Issue 4
 - SPCR NEWS in English, Issue 4
 - SPCR NEWS in Khmer, Issue 3
 - SPCR NEWS in English, Issue 3
 - SPCR NEWS in English, Issue 2
 - SPCR NEWS in Khmer, Issue 2



KINGDOM OF CAMBODIA
MINISTRY OF PUBLIC WORKS AND TRANSPORT
PROJECT MANAGEMENT UNIT 3

RE-ADVERTISEMENT

Invitation for Bids (IFB): 1st April 2016

Loan/Grand No.: G0278-CAM: Provincial Roads Improvement Project (Climate Resilience Output)
 Contract No. 2015-MPWT-NCB-CRPRIP-CW-D2; Dredging for Khset Lake
 Deadline for Submission of Bids: 5th May 2016, 15:00 hours local time

1. The Kingdom of Cambodia has received financing from a Strategic Climate Fund (PPCR) Grant and to be administered by the Asia Development Bank (ADB) towards the cost of the Provincial Roads Improvement Project. Part of this financing will be used for payments under the contract named above. Bidding is open to Bidders from eligible source countries of the ADB.
2. The Ministry of Public Works and Transport (MPWT) of the Kingdom of Cambodia ("the Employer") invites sealed bids from eligible bidders for dredging of approximately 110,000 cu.m and construction of 7 water gates ("The Works").
3. National Competitive Bidding will be conducted in accordance with ADB's Single Stage: One-Envelope procedure and is open to all Bidders from eligible countries as described in the Bidding Document.
4. Only eligible Bidders with the following key qualifications should participate in this bidding:
 - Contracts executed during the last five (5) years: i) Dredging: 110,000 cu.m, ii) Water gate: 7 pcs
 - Minimum Average Annual Construction Turnover of US\$ 750,000.00 calculated as total certified payment received for contracts in progress or completed, within the last three (3) years;
 - The essential equipment required:

• Bulldozer D6 type	1	• Steel cutting machine	1
• Excavator 1 m ³ bucket or Dredging Machine with capacity 200 m ³ /hr.	4	• Steel bending machine	1
• Dump Truck 14m ³	10	• Water pump of 50 m ³ /h capacity	1
• Concrete mixer of 1 m ³ capacity	1	• Water tank of minimum 5 m ³ capacity	1
 - Key personnel:

No.	Position	Total Work Experience [years]	Experience In Similar Work [years]
1	Construction Manager (currently employed by the bidder)	10 years	5 years similar size & type
2	Senior Structural Engineer	10 years	5 years similar type
3	Site Supervisors	5 years	3 years similar type
4	Survey and Measurement Engineer	5 years	3 years similar type
5	Draftsman/CAD Operator x 2	5 years	3 years similar type
6	Health & Safety Officer	5 years	5 years similar type
5. To obtain further information and inspect the bidding documents, Bidders should contact:
H.E. Mr. Pheng Sovicheano
 Project Director/Under Secretary of State
 Project Management Unit 3 (PMU3)
 Ministry of Public Works and Transport
 4thFloor, Eastern Building, Corner Norodom Blvd. and St.106, Phnom Penh, Cambodia
 Telephone: (855)23 724 565, Facsimile: (855)23 724 595
 E-mail: psovicheano@online.com.kh
6. To purchase the bidding documents in English, eligible Bidder should:
 - write to address above requesting the bidding documents for 2015-MPWT-NCB-CRPRIP-CW-D2, Dredging for Khsaet Lake.
 - pay a non-refundable fee of USD 100 (United State Dollar One Hundred only) by cashier's check to the following account:
 Bank: National Bank of Cambodia
 Account Name: MEF Current Account
 Account No.: 000000013535
7. Deliver your bid:
 - Pre-bid meeting as in ITB 7.1
 - to the address above
 - on or before the deadline: 5th May 2016 on or before 3:00^{PM} (Cambodia Standard Time).
 - together with the a bid security/Bid Securing Declaration as described in the Bidding Document

Bids will be opened immediately after the deadline for bid submission in the present of Bidders' representatives who choose to attend.



For more information:

H.E. Prof. Dr. SABO Ojano, Program Coordinator

Mr. Ou Chantearith, Program Manager

(Climate Change Department, the Ministry of Environment)

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