



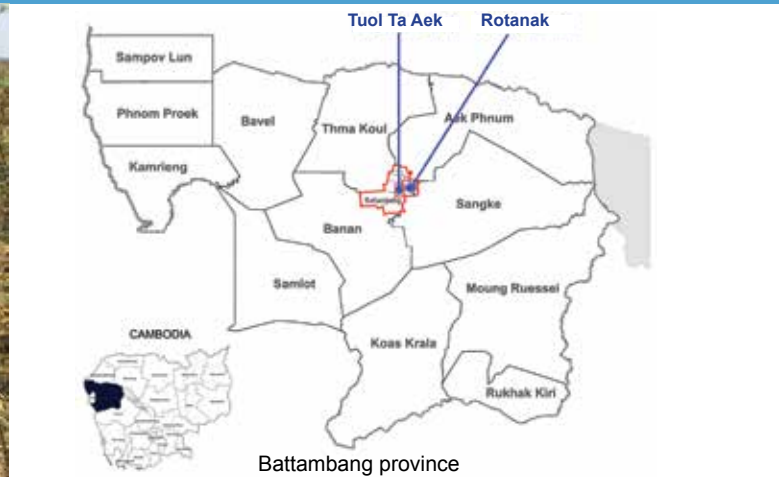
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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 1

February 2017



Strengthening Commune Capacities and Institutions for Mainstreaming Climate Resilience into Commune Development Plans

Commune Profile

- **Commune:** Sangkat Tuol Ta Aek and Rotanak, Battambang Municipality
- **Population:** 32,845
- **Livelihood activities:** agriculture (rice and crop farming), non-farm activities such as construction workers, guards, cleaners, and drivers

Vulnerability Profile

- **Climate hazards:** increased intensity and frequency of flooding from localized rainfall and river overflowing
- **Impacts:** decline in rice and crop yield; damage to drainage infrastructure; inaccessibility of markets, schools, and other services in times of floods; outbreak of vector borne diseases such as malaria and dengue; poor sanitation as flooding often damages pit latrines
- **Key issues:** limited capacity of drainage network to control the flow of water; poor sanitation facilities; limited coordination by local authorities and communities; limited awareness of communities on climate change adaptation (CCA) and disaster risk reduction (DRR)

- **Traditional coping strategies:** built waterways to direct excess water away to lower lands in the communities
- **Targeted stakeholders:** women, elderly and children

Outcome

Improved urban infrastructure and enhanced capacity of local authorities and communities in urban areas to integrate CCA and DRR actions into commune investment plans/commune development plans

Outputs

- Design of a wastewater master plan, including drainage systems, developed and endorsed
- Coordination among target communities and local authorities enhanced
- Climate change knowledge products on drainage rehabilitation developed

Adaptation Activities

- Rehabilitate two main drainage systems to accommodate more intensive rainfall and reduce vulnerability to flooding
- Organize regular sangkat-community bi-monthly meetings to enhance coordination
- Develop guidance notes on climate-proofing of urban infrastructure
- Provide training on mainstreaming CCA/DRR into commune investment plans and/or commune development plans to increase adaptive response of local institutions to climate change
- Conduct public awareness campaigns on adaptation and DRR to increase adaptive capacity of communities

Resilience Instruments to be Developed and/or Tested

- Climate-resilient drainage system
- Guidance notes on integrating climate resilience into wastewater management master plan and infrastructure development

PROJECT AT A GLANCE

Grant size: US\$ 49,984.10

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CMDP

Project area: Sangkat Rotanak and Tuol Ta Aek, Battambang Municipality, Battambang province

Ecozone: Tonle Sap (urban)

Sector/subsector: Water and other urban infrastructure and services/urban water supply; urban sanitation

Partner: Cambodian Volunteer for Society

Beneficiaries: 990 individuals (487 women/girls), 172 families



About Community Managed Development Partners (CMDP)

CMDP is a non-government organization established with support from various organizations such as Urban Poor Women Development (UPWD), Habitat for Humanity Cambodia (HFH), Centre on Housing Rights and Eviction (COHRE), Borderlands (BL), UN-Habitat and Maryknoll Cambodia

Mission: support poor communities to improve communication and coordination among communities and local authorities and relevant institutions to strengthen community leadership in decision making in development and protection of community rights

Date of Registration: 2008

Areas of work: improving housing conditions, tenure security and protection of housing rights by strengthening collective community leadership of poor communities

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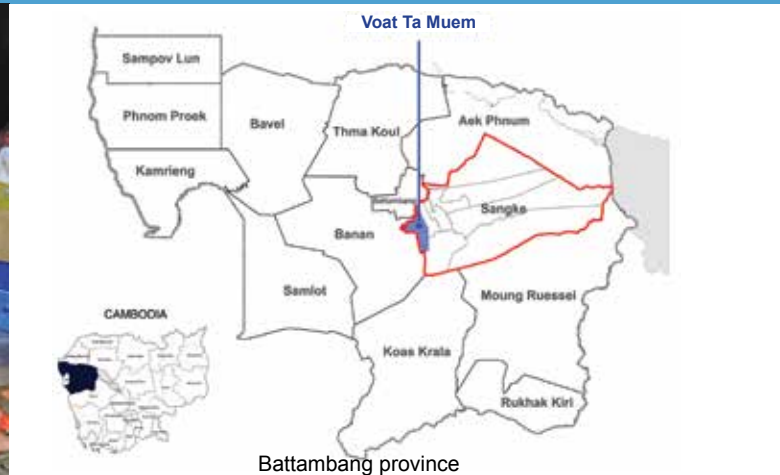


Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 2

February 2017



Enhancing Adaptive Capacity of Rural Communities in Voat Ta Muem Commune

Commune Profile

- **Commune:** Voat Ta Muem commune, Sangkae District
- **Population:** 14,808
- **Livelihood activities:** rice and crop farming, home gardening, livestock raising

Vulnerability Profile

- **Climate hazards:** erratic rainfall leading to drought
- **Impacts:** decline in rice yield; reduction in the availability of surface-water for livestock and irrigation, food and water shortage
- **Key issues:** strong dependence on rain-fed, unimproved agriculture and on a single crop, namely rice; current irrigation system(s) not well designed for agricultural purposes; current climate change adaptation activities are uncoordinated across sectors and among villages sharing water sources, thus intensifying the impact of scarcity, conflicts and social disparities; increased time required for women to collect water and lesser time to engage in other income-generating activities
- **Traditional coping strategies:** The community practices intercropping known to be “drought resistant” from both local and scientific knowledge; build water storage and distribution systems

- **Targeted stakeholders:** Villagers specifically women, children and youth

Outcome

Enhanced adaptive capacity of rural communities through participatory action research process; improved water availability access and development of water management plan for integration into the commune investment plan (CIP)

Outputs

- Sustainability of current climate change adaptation (CCA) and disaster risk reduction (DRR) practices related to water use and management assessed
- Capacity of water management system strengthened
- Selected adaptation activities on water supply and water use efficiency, and climate smart agriculture implemented
- Adaptation practices selected and integrated into CIP
- Multi-media knowledge products related to climate resilience developed and disseminated

Adaptation Activities

- Assess key factors affecting drought and the sustainability of current water management approaches and outcomes
- Conduct vulnerability reduction assessment in 5 villages, including gap analysis in knowledge, planning and implementation of climate change interventions within the commune
- Establish village working groups to review existing and proposed water regulations and management plans, and to identify interventions for reducing community vulnerability to climate change impacts and increase adaptive capacity
- Organize regular meetings among working groups, local authorities and other relevant stakeholders to strengthen coordination across sectors and villages sharing water resources, and to engage in the

commune planning process in terms of climate change adaptation

- Identify and pilot appropriate adaptation measures, i.e. the construction of dams/ponds; restoration of canals or mechanisms for water supply; diversification of farming practices/conservation agriculture practices, and/or improved technologies for measuring and/or reducing water use

Resilience Instruments to be Developed and/or Tested

- Climate smart agricultural practices to cope with drought and/or conserve available water resources
- Rehabilitated water supply infrastructure and strengthened water resource management practices for increased water availability and accessibility

PROJECT AT A GLANCE

Grant Size: US\$ 90,078.22

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: LI

Project area: Voat Ta Muem Commune, Sangkae District, Battambang Province

Ecozone: Tonle Sap

Sector/subsector: Agriculture, natural resources, and rural development/rural water supply services; rural water policy, institutional and capacity development

Beneficiaries: 14,808 individuals (7,848 women/girls) from improved commune water management, and 100 households from specific adaptation activities



About Learning Institute (LI)

LI is a non-profit, non-political Cambodian organization whose work began in 2002; and registered in 2005 as The Community Base Natural Resource Management Learning Institute (CBNRM-LI). LI works with natural resource users and public and private sector organizations, conducting Landscape Approach / Participatory Action Research in 19 Provinces of Cambodia to develop and promote more effective, equitable and sustainable management and governance of natural resources across sectors of agriculture, forestry, and fisheries, and cross-cutting issues of climate change and social inclusion

Mission: To be a center of learning; working creatively with others to generate and share knowledge and practices that contribute to sustainable and fair use of natural resources

Date of Registration: 2005

Areas of work: adaptation, management and conservation; livelihood resilience and enhancement; local governance and planning

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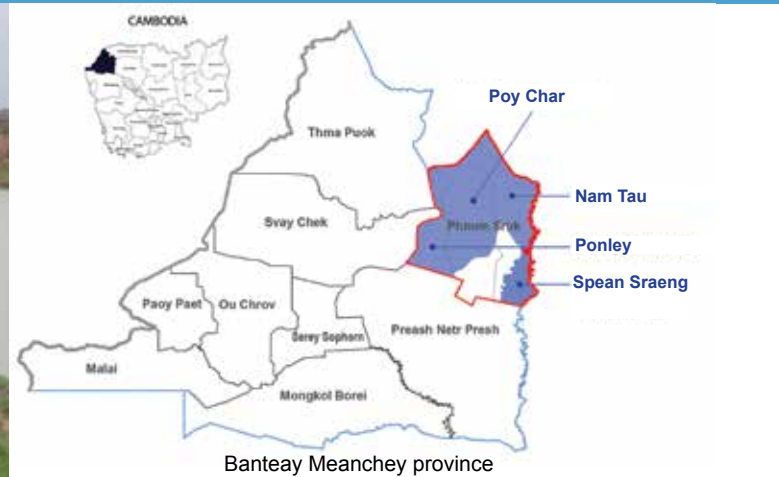
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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 3

February 2017



Improved Resilience of Vulnerable Communities in Phnum Srok district, Banteay Meanchey province

Commune Profile

- **Commune:** Ponley, Poy Char, Nam Tau, and Spean Sraeng communes, Phnum Srok district
- **Population:** 39,050
- **Livelihood activities:** rain-fed agriculture (rice farming), livestock raising

Vulnerability Profile

- **Climate hazards:** prolonged droughts, floods, changing rainfall patterns
- **Impacts:** water and food shortage; decline in crop yield; loss of income; increased occurrence of diseases
- **Key issues:** women/girls travel long distances to fetch water for household consumption; limited skills and understanding of climate change adaptation (CCA) and disaster risk reduction (DRR) to prepare and cope with current and future climate risk
- **Traditional coping strategies:** When flood or drought affected their rice crops, villagers commonly go to the forest to collect non-timber forest products for sale or do fishing at the natural lake. Sometimes, children taken out of school to help generate income for the family; family members migrate to towns and into Thailand to find day-to-day labor for survival

- **Targeted stakeholders:** women, children, and disabled people

Outcome

Improved adaptive capacity of communities in target communes through enhanced livelihood options and strengthened coordination and capacity of community in mainstreaming CCA & DRR into commune investment plan (CIP)

Outputs

- Adaptive agricultural practices enhanced
- Access to supplementary water supply for household consumption and home gardening increased
- Capacity of self-help groups to support climate-resilient livelihood projects strengthened
- Commune forestry resources and access improved
- Awareness of school children, teachers and people on CCA and DRR in target communes increased
- CCA and DRR priorities integrated into local planning processes and coordination among local institutions strengthened

Adaptation Activities

- Promote climate adaptive farming skills and practices through the use of drought tolerant crop varieties, better storage of seeds and adopting alternative cash crops
- Rehabilitate four community ponds and construct a new pond in target villages for decreased sensitivity to drought
- Conduct trainings for self-help groups in managing loans that support climate resilient livelihood activities and increase adaptive capacity of communities

- Conduct tree planting in community forest areas and family farms
- Conduct regular meetings to strengthen coordination among local authorities in integrating CCA and DRR into CIP

Resilience Instruments to be Developed and/or Tested

- Use of drought tolerant crop varieties
- Promote rainwater harvesting through rehabilitation and digging community ponds

PROJECT AT A GLANCE

Grant Size: US\$ 81,462.64

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: OC

Project area: Poy Char, Ponley, Nam Tau and Spean Sraeng communes, Phnum Srok district, Banteay Meanchey Province

Ecozone: Tonle sap

Sector/subsector: agriculture, natural resources, and rural development/rural water supply; agricultural production

Partner: Kon Kleng Community Based Organization

Beneficiaries: 3,379 individuals (2,343 women/girls), 730 households



About Ockenden Cambodia (OC)

OC was originally a British NGO founded in 1951 to serve the needs of refugees, displaced people, returnees and their host communities, and which worked in Cambodia with displaced people and returnees since 1995 in partnership with local CSOs. In 2007 it was registered with the Ministry of Interior. Currently, **OC** works in six provinces: Banteay Meanchey, Battambang, Otdar Meanchey, Preah Vihear, Pursat and Ratanak Kiri

Mission: To empower and improve the quality of life of poor and vulnerable Cambodian people

Date of Registration: 2007

Areas of work: disaster resilience, climate change adaptation/resilient farming, disaster mitigation/ preparedness, response and recovery in three northwest provinces (Banteay Meanchey, Battambang and Pursat), rural self-reliance, education, community forestry, rural infrastructure

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 4

February 2017



Building Community Resilient Pathways through Innovation and Planning

Commune Profile

- **Commune:** Trapeang Chan and Chak commune, Baribour district
- **Population:** 8,604
- **Livelihood activities:** farming (rice and other crops), animal raising, fruit trees plantation

Vulnerability Profile

- **Climate hazards:** drought
- **Impacts:** decline in rice and crops yield; food insecurity; water shortage for agriculture and domestic uses; reduced soil fertility; increased pest and insect outbreak leading to serious damage on crops and animals
- **Key issues:** lack of irrigation facilities; limited skills for better adaptation in agriculture
- **Traditional coping strategies:** During drought, farmers pump water from natural water bodies or drill wells for their crops to survive
- **Targeted stakeholders:** disabled, children and elderly people

Outcome

Enhanced adaptive capacity of farmers through improved agricultural productivity

Outputs

- Innovative infrastructure (irrigation system and biochar system) implemented
- Climate smart and sustainable farming practices adopted by farmers
- Climate change adaptation (CCA) and disaster risk reduction (DRR) mainstreamed into commune development plan
- Knowledge about CCA/DRR enhanced

Adaptation Activities

- Pilot test biochar systems to retain soil moisture and improve soil quality for rice farming, vegetable cropping and tree planting
- Rehabilitate irrigation system to reduce sensitivity to drought
- Provide training to farmers on climate smart agriculture

- Introduce at least 3 climate smart agriculture practices to cope with drought
- Establish community tree nurseries
- Conduct training of trainers for community members and officials on CCA and DRR
- Conduct training for focal persons of participating commune and districts on the use of vulnerability reduction assessment tool and climate change governance, and on mainstreaming CCA and DRR into development plans and investment plans

Resilience Instruments to be Developed and/or Tested

- Innovative technique (biochar) for rice farming, vegetable cropping and fruit tree planting
- Resilient irrigation system
- Climate smart agriculture practices
- Vulnerability Reduction Assessment tool

PROJECT AT A GLANCE

Grant size: US\$ 95,000

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: LEC

Project area: Trapeang Chan and Chak communes, Baribour district, Kampong Chhnang province

Ecozone: Tonle Sap

Sector: Agriculture, natural resources, and rural development/irrigation; agricultural production

Beneficiaries: 3,000 individuals (1,500 women/girls), and 300 households



About Live and Learn Cambodia (LEC)

LEC is a member of the Cambodia Climate Change Network and is also an affiliate of Live & Learn (International) Network consisting of well-qualified human resources and technical resources on climate change. It works with rural communities around Cambodia to reduce poverty and advance sustainable development using environmental education and community development as a key strategy

Mission: To educate, mobilize communities, and facilitate supportive partnerships in order to foster greater understanding of sustainability, and to help move towards a sustainable future

Date of Registration: 2004

Areas of work: peace building, environmental governance, water, sanitation and hygiene, sustainable use of biodiversity, climate change, sustainable energy, waste management, disaster preparedness, payments for ecosystem services, and human rights and gender

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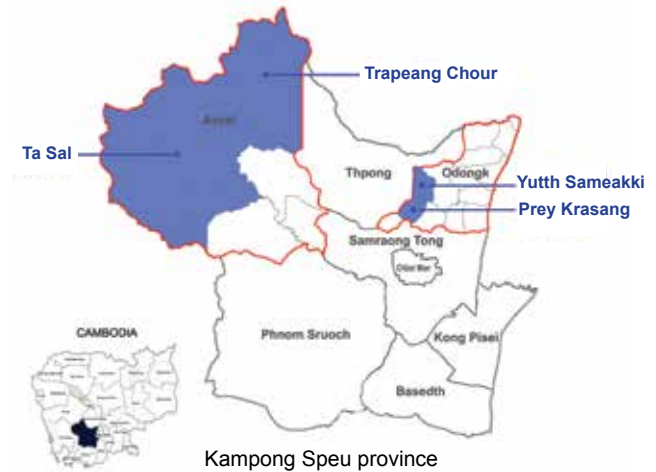


Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 5

February 2017



Climate Smart Livelihood Improvement Project

Commune Profile

- **Commune:** Yutth Sameakki and Prey Krasang Communes (Odongk district) and Ta Sal and Trapeang Chour communes (Aoral district)
- **Population:** 732,790
- **Livelihood activities:** rice farming, vegetable growing, and animal raising

Vulnerability Profile

- **Climate hazards:** Increased frequency and intensity of drought
- **Impacts:** lower agricultural production; food shortages; soil fertility degradation; limited water for agricultural production; insect problems; animal and human diseases
- **Key issues:** limited resources, skills, and knowledge of community members to cope with drought
- **Traditional coping strategies:** lowland farmers shift from using six-month to three-month rice seed varieties as fast-growing rice seed needs less time and water and produces high yields; some farmers delay rice transplanting until there is sufficient rainwater

- **Targeted stakeholders:** poor female-headed households, disabled persons, landless families, ID poor, and children

Outcome

Enhanced adaptive capacity of target communities through improved agricultural production and increased knowledge on climate change adaptation

Outputs

- Climate smart agricultural techniques introduced
- Agricultural crop insurance scheme demonstrated
- Irrigation infrastructure upgraded to climate-resilient condition
- Community-based adaptation measures integrated into commune development plans
- Adaptive capacity and ability of functional child councils and youth promoted
- Public awareness and debate on the environment and climate change adaptation at schools enhanced

Adaptation Activities

- Provide training to farmers on agricultural techniques including soil improvement, livestock and crop activities

- Provide drought-tolerant crops/rice varieties to trained farmers
- Organize workshop and prepare awareness raising materials on agricultural crop insurance scheme for local authorities and communities
- Conduct environmental impact assessment, including assessment of climate risks, on proposed irrigation system
- Rehabilitate dams and community ponds
- Conduct awareness raising events for farmer water user communities on irrigation systems and water use
- Provide training to district, commune and village officials on integrating climate change adaptation (CCA) measures into commune development plan
- Conduct training and awareness raising activities on CCA and disaster risk reduction (DRR) for children and youth
- Plant trees in public places to deal with climate change
- Publish knowledge products, i.e. leaflets and posters on CCA practices and experiences

Resilience Instruments to be Developed and/or Tested

- Agricultural techniques on conserving soil
- Drought tolerant crops
- Resilient irrigation infrastructure
- Crop insurance
- Vulnerability Reduction Assessment tool

PROJECT AT A GLANCE

Grant size: US\$ 93,300

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: LWD

Project area: Yuth Sameakki and Prey Krasang Communes in Odongk district and Ta Sal and Trapeang Chour communes in Aoral district, Kampong Speu Province

Ecozone: Plateau and mountain

Sector/subsector: Agriculture, natural resources, and rural development/ agricultural production; water-based natural resources management

Partner: World Vision Cambodia, and the Cambodian Center for Study and Development in Agriculture

Beneficiaries: 5,538 individuals (2,216 women/girls)



About Life With Dignity (LWD)

LWD was localized from Lutheran World Federation (LWF) in 2011. LWF came to Cambodia in 1979 after the collapse of the genocide regime (1975-1979)

Mission: To facilitate the empowerment of vulnerable people

Date of Registration: 2011

Areas of work: community governance, leadership and development; human rights and advocacy; food security and nutrition; income generation; education; basic health care; water and sanitation; women and youth empowerment; climate change adaptation, disaster risk management and emergency response; humanitarian mine action

Contacts:



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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 6

February 2017



Enhancing Kraing Serei Community Resilience to Extreme Weather Events

Commune Profile

- **Commune:** Kiri Voan Commune, Phnum Sruoch District
- **Population:** 6,263
- **Livelihood activities:** rice farming, vegetable growing, upland cropping, non-timber forest product collection

Vulnerability Profile

- **Climate hazards:** drought, irregular rainfall
- **Impacts:** decline in crop yield; water shortage for farming and household use; declining health from poor sanitation and hygiene; pest infestation of agricultural crops; increased occurrence of water-borne diseases
- **Key issues:** women travel long distances to collect water; none of the targeted villages have ponds, water reservoirs, dams, rivers, canals, and other water systems, nor resources and capacity to construct water systems
- **Traditional coping strategies:** water storage/pond, vegetable gardening
- **Targeted stakeholders:** Villagers, women and girls

Outcome

Strengthened adaptive capacity of target communities through improved water supply system and management, climate adaptive agriculture, sanitation and hygiene, and environmental management

Outputs

- Community water storage capacity expanded
- Water supply system expanded and improved
- Climate adaptive home gardening techniques in targeted villages enhanced
- Clean drinking water, sanitation and hygiene, and clean environment promoted
- Community forest conserved and protected

Adaptation Activities

- Design and implement a water supply system for distributing water to targeted households
- Construct a 9,000 m³ water reservoir to address water scarcity in times of drought, and strengthen water supply and distribution system

- Provide training to communities on adaptive home gardening techniques such as vegetable growing and chicken raising to increase livelihood options and improve their adaptive capacity
- Distribute loans to target farmers through a self-help group scheme to start or improve climate smart home gardening activities
- Conduct public awareness in villages on improved drinking water, sanitation and hygiene, and nutrition for improved health and adaptive capacity among villagers

- Plant trees in school, in four villages & around the water reservoir to reduce effects of climate change

Resilience Instruments to be Developed and/or Tested

- Adaptive techniques in farming and vegetable gardening
- Climate-resilient reservoir and piped water distribution system
- Forest conservation and fruit tree planting

PROJECT AT A GLANCE

Grant size: US\$ 42,566.82

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: KSCF

Project area: 3 villages (Kraing Chress, Kraing Sya, Tropeang Krolong) of Kiri Voan Commune, Phnum Sruoch District, Kampong Speu Province

Ecozone: Plateau and mountain

Sector/subsector: agriculture, natural resources, and rural development/ rural water supply services

Partner: World Vision, Mlup Baitong

Beneficiaries: 2551 individuals (1214 women/girls), 430 households



About Kraing Serei Community Forestry (KSCF)

KSCF is a community-based organization registered with the Ministry of Agriculture, Forestry and Fisheries. It has also signed an agreement with the Forest Administration

Mission: Protect forest for increased sustainabilities of non-timber forest products to improve the community's livelihood

Date of Registration: 2010

Areas of work: water resource and supply management, community forestry, climate change, improving income-generating activities

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 7

February 2017



Food Security through Sustainable Coastal Fisheries Management and Climate Change Adaptation

Commune Profile

- **Commune:** Trapeang Sangkae, Koun Satv and Preaek Thnoat communes, Tuek Chhou district
- **Population:** 23,478
- **Livelihood activities:** fishing, farming (rice and other crops), animal husbandry, non-timber forest products, conservation and eco-tourism activities

Vulnerability Profile

- **Climate hazards:** increased water temperature and frequency of storms, heavy rainfall, sea level rise, saline water intrusion into rice fields
- **Impacts:** degradation of fishery resources, marine habitats, and rice fields; saline water intrusion in rice fields; food insecurity; increased incidence of animal diseases
- **Key issues:** increased storms and unsustainable fishing activities destroying fishery resources and fish shelter such as sea grass, limited knowledge on sustainable fisheries, climate change adaptation (CCA) and disaster risk reduction (DRR); limited law enforcement to protect marine waters, migration

- **Traditional coping strategies:** Migration; night-time fishing when fish which have hidden from the heat in the roots of the mangroves during the day time come out; community fisheries and mangrove cutting patrol, mangrove restoration and sea grass conservation (with support from previous projects)
- **Targeted stakeholders:** Smallholder farmers, artisan fisher-folk, women and children

Outcome

Sustained management of coastal fishery resources and increased awareness of climate change adaptation for food security in coastal communes of Kampot province

Outputs

- CCA and DRR integrated in commune investment plan/commune development plan
- Climate change awareness campaign on the linkage between food security and climate change, and ecosystems and climate change enhanced
- Food security and livelihood of small scale fishermen improved

Adaptation Activities

- Develop a suitable strategy for CCA for the targeted communes, including the needs and plans of vulnerable communities, which will be integrated in the commune development plan/commune investment plan
- Develop a guidebook on mainstreaming CCA/DRR practice in coastal areas for improved governance and adaptive capacity of institutions to respond to climate change
- Develop and disseminate awareness raising materials to the communities, and organize workshops for sharing information with fishermen on climate change risks and food security threats
- Build a community learning center for public access to information and learning on ecosystem and climate change
- Plant mangrove trees in the targeted communes and support mangrove conservation activities to increase fish stock and reduce impacts from climate change
- Introduce salinity resistant crops through demonstration farms and training to cope with salt water intrusion from sea level rise
- Development of a case study to share lessons learned and best practices

Resilience Instruments to be Developed and/or Tested

- Introduce salinity resistant crops
- Ecosystem conservation and restoration
- Complementary livelihood strengthening (ecotourism)

PROJECT AT A GLANCE

Grant size: US\$ 79,570.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CWDC

Project area: Trapeang Sangkae, Koun Satv and Preaek Thnoat communes, Tuek Chhou of Kampot province

Ecozone: Coastal

Sector/subsector: Agriculture, natural resources, and rural development/agricultural production; fishery; forestry; ecotourism

Partner: SAMAKY Organization

Beneficiaries: 1,375 individuals (750 women/girls)



About Children and Women Development Center in Cambodia (CWDC)

CWDC is a non-profit and local NGO, based in Kampot province

Mission: To enhance people's capacity and right to obtain sufficient food security, improve gender equality, education and health, focusing particularly on women, children and vulnerable families such as the poor, and handicapped

Date of Registration: 2005

Areas of work: Health and well-being of women and children, gender and domestic violence, children education, community food security, good governance, community-based natural resource management

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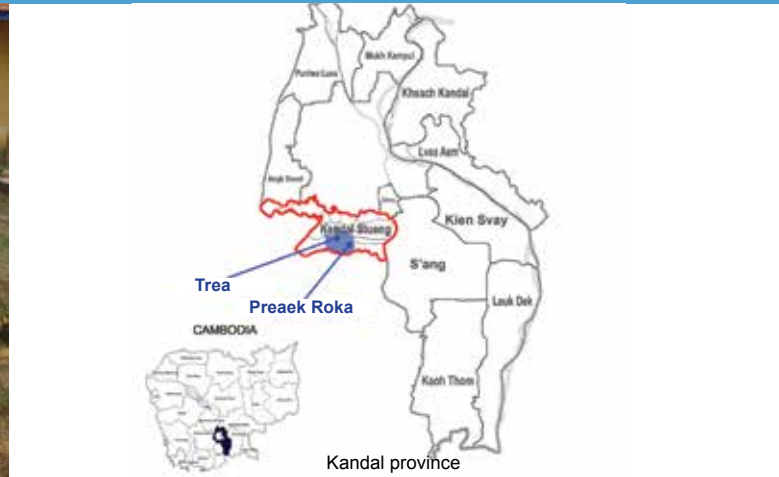


Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 8

February 2017



Enhancing Children and Youth's Adaptive Capacity to Climate Change

Commune Profile

- **Commune:** Trea and Preaek Roka communes, Kandal Stung district
- **Population:** 11,955
- **Livelihood activities:** agriculture (farming and fishing), and off-farm activities (garment factories)

Vulnerability Profile

- **Climate hazards:** increasing incidence of drought and unpredictable rainfall
- **Impacts:** decline in crop yield; reduced household nutrition; poor health from limited access to nutritious food and clean water; increased incidence of pests and loss of animals
- **Key issues:** very limited knowledge or skills of children, youth and teachers to respond to climate change
- **Traditional coping strategies:** During drought, farmers keep land fallowed for a season and generate income from activities such as collecting bamboo shoot. Traditionally, farmers used small water jars to harvest rain water for domestic use, children go far to collect water and some children

drop-out of school to work

- **Targeted stakeholders:** primary school and secondary students and teachers

Outcome

Enhanced knowledge of children, youth, schools, and local authorities in target communities on climate change and its impacts, and skills built to secure sustainable and drought resilient livelihoods

Outputs

- Children's knowledge of climate change adaptation (CCA) and disaster risk reduction (DRR) enhanced
- CCA and DRR action plans developed and integrated into school development planning
- Techniques to cope with drought integrated into secondary curriculum to prepare youth for local career options
- CCA/DRR practices in school regarding water sustainability and sanitation replicated among households

Adaptation Activities

- Introduce climate-resilient vegetable gardening in target schools using drought-resistant seeds and planting methods
- Assist schools in developing CCA/DRR action plans to be integrated into school development plans
- Integrate techniques to cope with drought integrated in secondary curriculum
- Conduct training on CCA/DRR, water, sanitation and hygiene for school directors and teachers
- Facilitate regular meetings between stakeholders and commune councilors to integrate CCA/DRR initiatives pertinent to children and youth into commune investment plans

- Promote water sanitation and hygiene facilities in targeted schools to increase resilience among students and teachers
- Develop policy brief on the role of children in CCA/DRR

Resilience Instruments to be Developed and/or Tested

- Climate resilient vegetable garden in schools
- Vulnerability Reduction Assessment tool
- Drought resilient water and sanitation systems in schools

PROJECT AT A GLANCE

Grant size: US\$ 53,657.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CRF

Project area: Trea and Preaek Roka communes, Kandal Stueng district, Kandal province

Ecozone: Delta

Sector/subsector: Agriculture, natural resources, and rural development/ agricultural production; education/primary and secondary

Beneficiaries: 1,037 students and teachers (582 women/girls), plus an additional 1,045 indirect beneficiaries including local authorities



About Child Rights Foundation (CRF)

CRF aims to increase the awareness and capacity of decision makers about child rights and protection mainly through education, protection, participation, water, sanitation and hygiene and advocacy for policy and guideline development

Mission: To empower, support and mobilize children, young people, and adults to implement and maintain all principles within the United Nations Convention on the Rights of the Child

Date of Registration: 2001

Areas of work: child rights education, water, sanitation and hygiene, disaster risk reduction, child rights governance, education, child protection, advocacy for policy and guideline development

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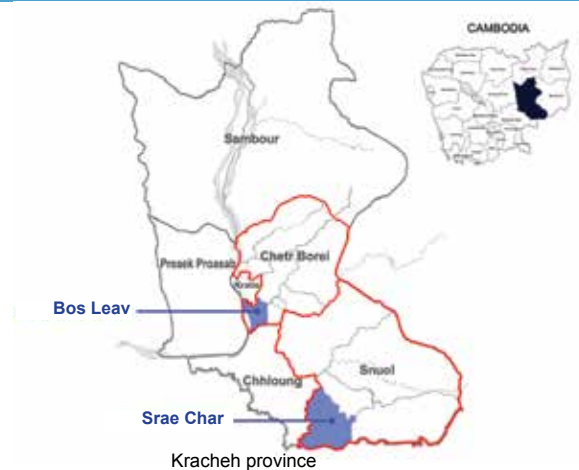
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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 9

February 2017



Empowering Communities to Adapt to Climate Change

Commune Profile

- **Commune:** Bos Leav commune, Chetr Borei District and Srae Char commune, Snuol district
- **Population:** 24,773
- **Livelihood activities:** rice farming, vegetables growing, animal raising, fishing

Vulnerability Profile

- **Climate hazards:** drought in the dry season, unpredictable flooding in the wet season
- **Impacts:** decline in rice yields; damaged irrigation infrastructure; food and water shortage; poor health of humans and animals; increased water-borne diseases such as dengue fever, malaria, diarrhea, typhoid and bronchitis
- **Key issues:** lack of small-scale irrigation and water supply systems; lack of agricultural techniques and capital to buy seeds and equipment; limited capacity and understanding of farmers about causes, effects and adaptation strategies to climate change
- **Traditional coping strategies:** planting medium-duration rice and short-duration rice instead of the more vulnerable long-duration rice; conduct

integrated farming on housing plots by combining varieties of vegetable and fruit trees with chicken

- **Targeted stakeholders:** women, children and indigenous people

Outcome

Increased capacity of communities, especially women, children and indigenous people, to integrate gender-sensitive climate adaptation in agriculture and water sectors

Outputs

- Awareness of target communities especially women, school children, indigenous people and local authorities on gender-sensitive climate adaptation enhanced
- Knowledge and skills of communities on climate smart agriculture techniques improved
- Access of vulnerable communities to water supply increased
- Knowledge on gender-sensitive climate adaptation documented and disseminated

Adaptation Activities

- Conduct gender-sensitive climate adaptation awareness raising, and training on climate change adaptation (CCA) and disaster risk reduction (DRR) to increase resilience of target communities
- Train farmer groups on climate smart agriculture techniques to cope with drought impacts
- Train management committee on effective water management
- Construct climate-resilient water supply system to withstand the impacts of drought

- Document and disseminate case studies on reducing women's vulnerability to climate change
- Develop a video on mainstreaming DRR & CCA into school curriculum

Resilience Instruments to be Developed and/or Tested

- Climate smart agriculture techniques introduced through farmer field schools
- Climate-resilient water supply system to cope with drought

PROJECT AT A GLANCE

Grant size: US\$ 47,630.02

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: KWWA

Project area: Bos Leav commune, Chetr Borei District and Srae Char commune, Snuol district, Kracheh province

Ecozone: Plateau and mountain

Sector/subsector: Agriculture, natural resources, and rural development/irrigation, agricultural production, rural water supply services

Beneficiaries: 1,641 individuals (938 women/girls)



About Kampuchea Women's Welfare Action (KWWA)

KWWA is a local NGO, non-profit and is not affiliated with any political party

Mission: To improve welfare and livelihood of women, children, and vulnerable groups through (i) strengthening the capacity to effectively respond to development challenges; (ii) promoting health status of women and children in local communities; (iii) improving livelihood of women, their families and community members; and (iv) fostering effective mechanisms for sustainable environment and biodiversity conservation

Date of Registration: 1993

Areas of work: capacity development, health strengthening, sustainable environment and biodiversity conservation, improving livelihood of women

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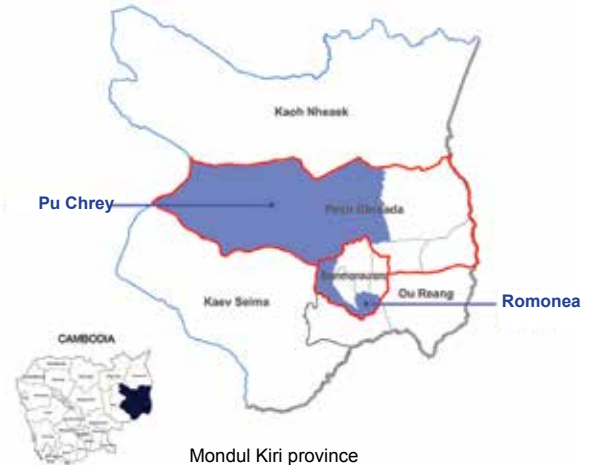


Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 10

February 2017



Climate Change Adaptation and Disaster Risk Reduction of Indigenous Communities in Mondul Kiri

Commune Profile

- **Commune:** Romonea commune, Saen Monourom district and Pu Chrey commune, Pech Chreada district
- **Population:** 9,222
- **Livelihood activities:** paddy rice and upland rice farming, cash crop production; home-based vegetable growing; collecting non-timber forest products; eco-tourism

Vulnerability Profile

- **Climate hazards:** drought, flash floods
- **Impacts:** decline in yields of crops, home gardens and poultry; water shortage for household use; increased occurrence of vector and water borne diseases, soil erosion
- **Key issues:** very few alternative sources of water in the area, limited capacity of target community to understand and integrate climate change adaptation (CCA) and disaster risk reduction (DRR) into commune investment program (CIP) and school initiatives
- **Traditional coping strategies:** during drought, households try to adapt to irregularity of rainfall

patterns by shifting the crop calendar, changing to short-duration or drought-tolerant crop varieties, and diversifying their livelihood activities; during flash floods, some households plant bamboo trees along the river bank to reduce or check soil erosion, and to prevent or lessen water overflows during the rainy season

- **Targeted stakeholders:** indigenous people, specifically women and children

Outcome

Reduced vulnerability and enhanced adaptive capacity of indigenous communities and children in Mondul Kiri province to climate change impacts

Outputs

- CCA and DRR integrated in action plans of two primary schools
- Awareness on CCA/DRR among indigenous communities, including women and children, promoted
- New innovative upland adaptive farming technology and skill promoted, and a dam constructed for increased resilience to climate change

Adaptation Activities

- Introduce adaptive upland farming technology for farmers to cope with drought impacts
- Construct dam for storing water in Chong Phang village for increased community resilience in times of drought
- Install solar-powered water pump, safe filtered drinking water, hand-wash facility and health and safety facility of children
- Raise public awareness on CCA/DRR in target communities and schools to enable informed decision making and increase adaptive capacities of communities
- Develop guidelines on mainstreaming CCA/DRR into primary school initiatives and school management plans

- Implement CCA/DRR initiatives such as teaching, tree planting, and disaster management in schools
- Conduct regular meetings with district administration on integrating CCA/DRR related activities into commune development plans/commune investment plans, district investment plans and department of environment plans
- Provide training to enhance skills of handicraft to women

Resilience Instruments to be Developed and/or Tested

- Climate smart agriculture practices in uplands
- Rainwater harvesting from micro-watershed in upland areas

PROJECT AT A GLANCE

Grant size: US\$ 50,743.92

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: MIPAD

Project area: Romonea commune, Saen Monourom district and Pu Chrey commune, Pech Chreada district, Mondul Kiri Province

Ecozone: Plateau and mountain

Sector/subsector: agriculture, natural resources, and rural development, agricultural production; education/primary education

Beneficiaries: 4720 individuals (2,273 women/girls), 60% indigenous people



About Mondul Kiri Indigenous People's Association for Development (MIPAD)

MIPAD is a local organization developed by Nomad Recherche et Soutien International

Mission: To support sustainable development and better lives for Indigenous People in Mondul Kiri province

Date of Registration: 2010

Areas of work: health, hygiene and prevention of diseases, maternal/child health, self-help groups and equality of access to public services, preservation and conservation of indigenous culture, rights, traditions and arts; improved livelihoods based on traditional crafts and good husbandry of natural resources

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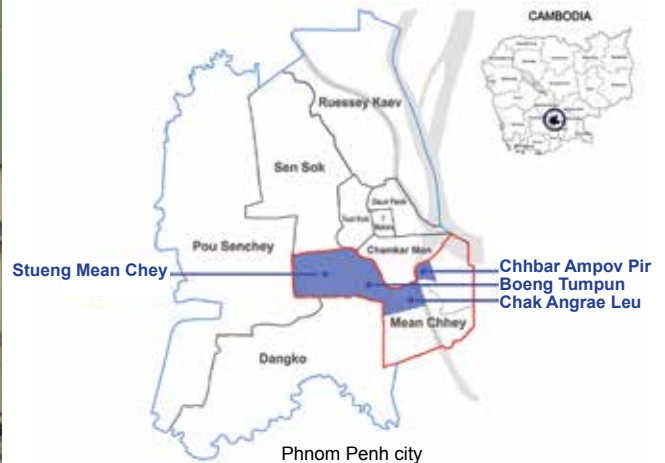
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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 11

February 2017



Community-led Climate Change Adaptation for Urban Poor Communes

Commune Profile

- **Commune:** Boeng Tumpun, Stung Mean Chey, Chak Angrae Leu, and Chhbar Ampov Pir communes, Mean Chey district
- **Population:** 144,955
- **Livelihood activities:** vegetable farming, livestock raising, non-farm activities such as small enterprises, casual labor, child labor, street seller, domestic services (cleaning and childcare)

Vulnerability Profile

- **Climate hazards:** Floods, droughts, and storms
- **Impacts:** outbreak of vector-borne diseases such as diarrhea; lack of safe drinking water; poor sanitation
- **Key issues:** lack of safe shelters; lack of awareness on disaster risk reduction related to shelter safety
- **Traditional coping strategies:** use of sandbags and tree logs for flood protection; raising pit latrines and doorsteps to prevent floods from reaching inside houses and pit latrines; construction of protective walls and elevation of house foundations
- **Targeted stakeholders:** vulnerable migrants from rural areas

Outcome

Improved resilience to climate change impacts and disaster preparedness of vulnerable urban poor communities

Outputs

- Unsafe/at-risk individual shelters and communities' water, sanitation and hygiene infrastructure in target villages rehabilitated
- Capacity of vulnerable families to manage climate risks and prepare for disasters strengthened

Adaptation Activities

- Distribute climate-resilient housing repair kits to urban poor communities
- Develop a climate change adaptation shelter cartoon for dissemination to community members
- Provide training on water, sanitation and hygiene (WASH) improvement, assist community members in submitting proposals on WASH, and fund community WASH investments

- Facilitate access to loans for purchase of housing repair kits, boosting financial literacy, financial inclusion, and ability to access capital
- Facilitate skills improvement and access to employment opportunities that will provide income and increase adaptive capacity of vulnerable families

Resilience Instruments to be Developed and/or Tested

- Participatory Approach for Safe Shelter Awareness process developed by the International Federation of the Red Cross
- Climate-resilient housing repair solutions to mitigate risks of climate change using a partial credit finance mechanism

PROJECT AT A GLANCE

Grant size: US\$ 80,000.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: SKO

Project area: Boeng Tumpun, Stueng Mean Chey, Chak Angrae Leu communes, Mean Chey district and Chhbar Ampov Pir commune, Chhbar Ampov district, Phnom Penh

Ecozone: Delta (urban)

Sector/subsector: Water and other urban infrastructure and services/urban flood protection, urban water supply and sanitation, social services and protection, livelihood development

Partner: Enfants et Développement, Credit Mutual Kampuchea and Habitat for Humanity Cambodia

Beneficiaries: 15,743 individuals (8,659 women/ girls)



About Samatpheap Khnom Organization (SKO)

SKO is a local organization dedicated to improving the living conditions of the poorest and most vulnerable families in urban areas. Families targeted by SKO are 90% women headed, a majority of them are migrants recently arrived in Phnom Penh, and experiencing psychosocial issues such as domestic violence or addiction

Mission: Improve the quality of life of families (especially women and children) in urban poor areas by empowering and enabling them through the provision of home and center-based counseling, psycho-social support, education and referrals to other services (health services, education, economic development services, administration)

Date of Registration: 2007

Areas of work: urban infrastructure, disaster risk reduction, community training on a variety of topics including health, economic livelihood support, psychosocial issues, etc

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 12

February 2017



Strengthening Capacities of Community and Local Authorities on Climate Change Adaptation and Disaster Risk Reduction in Prey Veng

Commune Profile

- **Commune:** They commune, Ba Phnum district, and Prey Kandieng commune, Peam Ro District
- **Population:** 22,000
- **Livelihood activities:** rice farming, livestock raising, home gardening, social enterprises

Vulnerability Profile

- **Climate hazards:** intense floods and droughts
- **Impacts:** decline in crop yield; significant damage to home gardens and rice fields; serious food shortages; drying up of water wells, ponds and lakes; increased livestock mortality, pest and disease infestations (on rice fields); contamination of wells during flooding and drought season; occurrence of water-borne diseases
- **Key issues:** poor irrigation infrastructure; children forced to collect water from water sources far away from home; lack of economic diversification into sectors other than agriculture; limited understanding of local authorities and target communities on climate change adaptation (CCA) and disaster risk reduction (DRR)

- **Traditional coping strategies:** Shift from long duration to short-cycle rice varieties; pump water to rice fields during drought; savings as source of emergency capital when farming fails
- **Targeted stakeholders:** extremely vulnerable, mostly rural-to-urban migrant families

Outcome

Increased capacity of community and local authorities to apply integrated approaches in implementing sustainable water resource management and promoting alternative livelihood options to address climate change impacts

Outputs

- Integrated water resource management implemented through rehabilitation of water storage infrastructure, better water supply management, and more efficient and effective water uses in agriculture, households and livelihoods
- Alternative livelihoods for women promoted to reduce dependence on climate sensitive economic activities
- CCA and DRR measures mainstreamed into the commune budgeting and planning

Adaptation Activities

- Rehabilitate community ponds to climate-resilient condition to help farmers cope with climate change impacts, and form water user groups for sustainable water management
- Build dykes surrounding Kampong Slaeng primary school to protect it from floods
- Conduct resilient-rice farming demonstration and training to farmers
- Conduct awareness raising on CCA and DRR
- Provide training on climate information tools to support farmers plan and integrate climate risk management
- Support community representatives especially women and youth/children to participate in

commune investment plan development processes, and to advocate for increased commune budget for CCA and DRR measures

- Develop and disseminate 2 case studies on integrating CCA and DRR into commune investment plans and commune development plans

Resilience Instruments to be Developed and/or Tested

- Climate-resilient rice farming
- Resilient irrigation system and water management
- Dykes for flood protection
- Climate information tools to integrate climate risk into planning

PROJECT AT A GLANCE

Grant size: US\$ 50,000.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: WOMEN

Project area: Theyay commune in Ba Phnum district and Prey Kandieng communes in Peam Ro District, Prey Veng province

Ecozone: Delta

Sector/subsector: Agriculture, natural resources, and rural development/irrigation, agricultural production, rural flood protection, gender empowerment

Beneficiaries: 720 individuals (400 women/girls), 11,421 indirect beneficiaries (5,885 women/girls)



About Women Organization for Modern Economy and Nursing (WOMEN)

WOMEN envisages a society where the rights of the vulnerable people and all children are respected. It has implemented development programs to improve the situation of poor, vulnerable and sick Cambodians, especially women and children

Mission: Deliver effective programs working with individuals and communities that will develop and use their ability to improve their quality of life, to achieve their potential and contribute to social development

Date of Registration: 1993

Areas of work: HIV/AIDS prevention and care, awareness raising on child rights and protection, sexual health and reproductive rights education, community development, natural resource management

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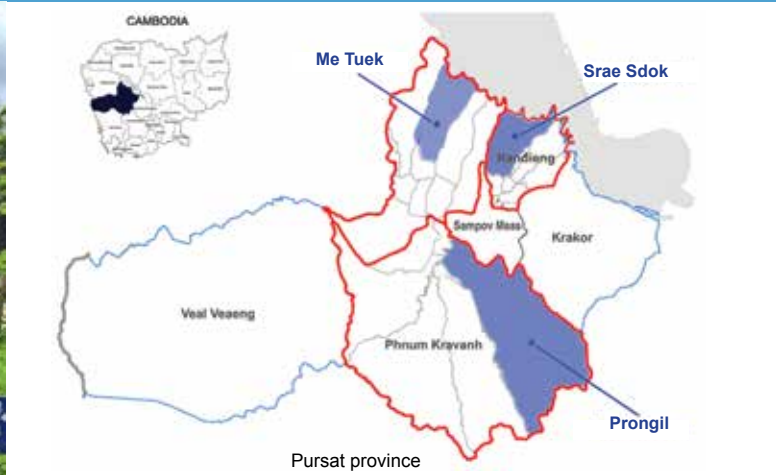


Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 13

February 2017



Enhancing Climate Change Resilience and Mitigation in Schools and Communities

Commune Profile

- **Commune:** Me Tuek commune, Bakan district; Srae Sdok commune, Kandieng district and Prongil commune, Phnum Kravanh district
- **Population:** 37,339
- **Livelihood activities:** rice farming, animal raising, vegetable gardening

Vulnerability Profile

- **Climate hazards:** intense drought, flood, and storms
- **Impacts:** decline in rice and crop yields; occurrence of water-borne diseases such as diarrhea; food and water shortages; dried up water wells, ponds and lakes in the community; increased school drop-outs
- **Key issues:** existing irrigation systems and canals need to be renovated to store enough water for agricultural crops, animals and family uses; limited understanding of commune councils, communities, particularly teachers and principals, on adaptation and disaster risk reduction
- **Traditional coping strategies:** animal raising and vegetable planting

- **Targeted stakeholders:** women and children

Outcome

Strengthened capacity to mainstream climate change adaptation (CCA) and disaster risk reduction (DRR) in schools and communities

Outputs

- Climate friendly agriculture innovations implemented by target farmers
- Climate change mainstreamed into school curriculum

Adaptation Activities

- Rehabilitate irrigation canals and water supply system to climate-resilient condition
- Establish home and school gardens using drought-tolerant crop varieties and methods
- Support early warning system for increased resilience to disasters

- Conduct training on CCA and DRR
- Organize regular meetings with commune councils to integrate CCA and DRR priorities into commune investment plans
- Conduct consultative workshop on integrating CCA and DRR in school curriculum
- Conduct training on resilient vegetable growing and tree planting to target farmers
- Develop awareness raising materials related to CCA and DRR

Resilience Instruments to be Developed and/or Tested

- Early warning system
- Drought-tolerant crops
- Climate-resilient irrigation system

PROJECT AT A GLANCE

Grant size: US\$ 94,867.15

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: BK

Project area: Kandieng, Bakan and Phnum Kravanh district, Pursat Province

Ecozone: Tonle Sap

Sector/subsector: Agriculture, natural resources management, rural development/irrigation, agricultural production; education

Beneficiaries: 12,901 individuals (6,516 women/girls) of which 5201 children



About Bandos Komar Association (BK)

BK is a Cambodian NGO localized from the PARTAGE Cambodia (French NGO). BK's VISION is that "every child and youth enjoy full development potential with dignity and sustainability"

Mission: Support human resource development and livelihood improvement through enabling participation opportunities of the communities, public institutions, civil society, the private sector and other relevant stakeholders

Date of Registration: 1999

Areas of work: integrated early childhood care and development and integrated basic education, health, water, sanitation and hygiene, child protection, income generation, climate change resilience in rural areas

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ADB

Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 14

February 2017



Building Adaptive Capacity of Indigenous and Minority Communities to Floods and Droughts

Commune Profile

- **Commune:** Ka Choun and Phnum Kok communes, Veun Sai district; Nhang and Talav communes, Andoung Meas district
- **Population:** 12,497
- **Livelihood activities:** upland and lowland farming, fishing, livestock raising, and collection of non-timber forest products

Vulnerability Profile

- **Climate hazards:** intense drought, floods, and storms
- **Impacts:** destruction of paddy fields and other crops; decline in soil fertility; livestock disease and loss; increased risk of diseases carried by mosquitoes; water quality unsafe for human and animal consumption
- **Key issues:** limited irrigation infrastructure and smart agriculture technologies; difficulty for women and children to fetch water; limited understanding and lack of skills of communities to address climate change impacts

- **Traditional coping strategies:** some people in Pa Kalan Village (Veun Sai District) build rice storage structures using stronger wood and on higher posts in response to floods
- **Targeted stakeholders:** vulnerable indigenous and minority communities

Outcome

Improved capacity of vulnerable communities to adopt climate smart agriculture and enhanced emergency preparedness and response in Veun Sai and Andoung Meas districts

Outputs

- Capacity of village and district officials and vulnerable communities on climate change adaptation (CCA) strengthened
- Knowledge and practices of communities on emergency preparedness and response during floods, especially water, sanitation, hygiene and health increased
- Climate smart agriculture techniques adopted

Adaptation Activities

- Establish community-based early warning system in two villages in two districts, including construction of flood poles to monitor water levels upstream and downstream
- Develop hazard maps, climate change action plans and disaster management plans for villages
- Provide water filter and rainwater storage facilities to households to cope with drought, and improve awareness on latrine use for improved sanitation
- Identify appropriate climate-smart agriculture options
- Conduct awareness raising and training to communities on CCA and disaster risk reduction, including public awareness on emergency preparedness and response during floods

- Integrate climate change action and disaster management plans at village level into commune investment plan and commune development plan

Resilience Instruments to be Developed and/or Tested

- Community-based early warning system
- Water harvesting facilities
- Hazard maps and disaster management plan for the villages
- Climate smart agriculture techniques on livestock raising, home gardening, compost development, drought or flood tolerant crops

PROJECT AT A GLANCE

Grant size: US\$ 70,000.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CEPA

Project area: 4 communes in Veun Sai and Andoung Meas districts, Ratanak Kiri province

Ecozone: Plateau/mountain

Sector/subsector: Agriculture, natural resources, and rural development/irrigation, agricultural production, rural flood protection

Beneficiaries: 2,989 (1,434 women/girls)



About Culture and Environment Preservation Association (CEPA)

CEPA is a Cambodian NGO that preserves Cambodian culture and protects its environment without compromising its abilities to meet needs of the further generation

Mission: CEPA's mission is (i) to work with all sectors to promote economic, social and cultural rights and to foster a commitment to the protection of its culture and environment through research, information exchange, knowledge, and enlightened activism; (ii) to improve livelihood opportunities and promote equality and equity for women and men for preservation of traditional culture, social justice, and sustainable livelihood; (iii) to empower people to have equality, equity and right to use and manage natural resources; and (iv) to push networking as a means to communicate social, economic and environmental rights for increased understanding and indigenous cultural preservation

Date of Registration: 1995

Areas of work: sustainable livelihood programs, advocacy for sustainable programs, human rights, and climate change adaptation and disaster risk reduction

Contacts:



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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 15

February 2017



Mainstreaming Climate Change Adaptation into Community and Livelihood Improvement Program

Commune Profile

- **Commune:** Khnar Pou and Chan Sa communes, Soutr Nikum district and Peak Snaeng commune, Angkor Thum district
- **Population:** 20,075
- **Livelihood activities:** farming, fishing, livestock raising; vegetable gardening; tourism

Vulnerability Profile

- **Climate hazards:** Droughts and floods
- **Impacts:** decline in rice yield; food insecurity; lower water availability; increase in vector- and water-borne diseases
- **Key issues:** limited irrigation infrastructure and climate smart agriculture technologies; limited capacity of communities for integrating climate change adaptation into irrigation development, agriculture, and natural resource management
- **Traditional coping strategies:** building elevated enclosures for protection of livestock against floods
- **Targeted stakeholders:** orphaned children, disabled persons, women headed households and people with HIV/AIDS

Outcome

Enhanced adaptive capacity of vulnerable communities in Soutr Nikum and Angkor Thum districts to integrate climate change adaptation (CCA) into the communities' livelihood programs

Outputs

- Knowledge of CCA and disaster risk reduction (DRR) increased
- Irrigation, agricultural technology and natural resource management enhanced

Adaptation Activities

- Rehabilitate irrigation system to cope with climate change impacts
- Provide training on climate smart agriculture techniques related to rice cultivation, home gardening, adaptive chicken and fish raising, and pilot demonstration activities to increase livelihood options of vulnerable households
- Assist self-help groups in supporting community members to carry out other livelihood options to increase their income and adaptive capacity

- Strengthen rice seed producer groups through support in seed selection techniques, seed storage and networking among seed producers
- Conduct awareness raising and training on CCA and DRR to commune councillors and community members

Resilience Instruments to be Developed and/or Tested

- Climate resilient rice and vegetable varieties and cultivation techniques
- Climate resilient irrigation system
- Vulnerability Reduction Assessment tool

PROJECT AT A GLANCE

Grant size: US\$ 99,884.95

Project approval date: June 2016

Project completion date: December 2017

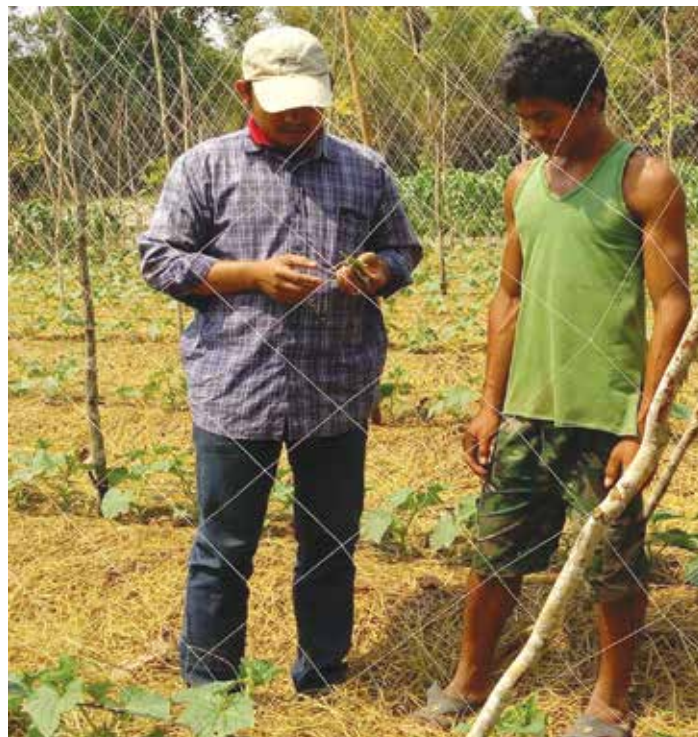
Implementing organization: HURREDO

Project area: Khnar Pou and Chan Sa communes, Sotr Nikum district and Peak Snaeng commune, Angkor Thum district, Siem Reap Province

Ecozone: Tonle Sap

Sector/subsector: Agriculture, natural resources, and rural development/irrigation, agricultural production

Beneficiaries: 2,372 people (1,660 women/girls)



About Human Resource and Rural Economic Development Organization (HURREDO)

HURREDO is a Cambodian non-profit organization established by a group of Cambodian agricultural and rural development specialists

Mission: To strengthen human resources through capacity building so that villagers have the technical skills and confidence to take responsibility for their own development. To do this, HURREDO will work with women, children and families to coordinate activities for rural development through supporting village self-management committees for social, cultural and environmental development

Date of Registration: 2000

Areas of work: Food security/livelihood improvement, CCA & mitigation, DRR, natural resource management, sustainable agriculture, horticulture, aquaculture, animal health, water, sanitation and hygiene, forest conservation, food security/nutrition, agribusiness value chain, self-help groups, village associations & rice bank formation/ strengthening, HIV/AIDS & gender/ equality mainstreaming, environmental safeguards

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 16

February 2017



Climate Change Adaptation Initiative in Kaoh Rung Archipelago

Commune Profile

- **Commune:** Kaoh Rung commune, Preah Sihanuk district
- **Population:** 2,016
- **Livelihood activities:** fishing, farming, small-scale home agriculture/aquaculture, tourism

Vulnerability Profile

- **Climate hazards:** drought; increased rainfall; sea level rise; increased frequency and intensity of storms
- **Impacts:** decline in crop yield; lower water supply (quantity) for fisheries; loss of fish habitats; coral bleaching; seawater intrusion; poor water quality for human and animal consumption; increases in water borne diseases
- **Key issues:** poor condition of coral reefs; limited water and sanitation facilities; limited understanding of climate change adaptation (CCA) and disaster risk reduction (DRR) among local authorities and communities
- **Traditional coping strategies:** Traditional coping strategies: fishing and small scale home garden in pots/ planters; rain water harvesting and wells; patrols against illegal fishing to conserve fish

- **Targeted stakeholders:** vulnerable communities in coastal areas and fisherfolk, including women and children

Outcome

Enhanced adaptive capacity of communities and local authorities through (i) improved access to potable water, (ii) increased protection of natural systems, and (iii) improved knowledge and understanding of climate change

Outputs

- Access to clean potable water during drought improved
- Natural systems such as coral reefs and mangroves that contribute to climate change and disaster resilience of coastal communities protected
- Understanding and capacity of local communities and local and regional authorities to respond to climate change improved

Adaptation Activities

- Establish water harvesting, storage and distribution network infrastructure and systems to community tap-stations to help communities cope with drought

- Introduce potable water filters to the most vulnerable communities, and provide training in using the devices
- Restore coral reef and mangrove forest for increased resilience and adaptive capacity of local communities to impacts from sea level rise and salt water intrusion
- Conduct village-based outreach events to promote CCA and DRR in the communities
- Provide training on mainstreaming of CCA and DRR into commune investment plans and commune development plans to increase adaptive capacity of institutions

- Develop a photo book and other media on impacts of climate change and local adaptive coping strategies being undertaken by the communities, to empower local communities including women and children to tell the story of how climate change is affecting them, and how they are choosing to respond to it

Resilience Instruments to be Developed and/or Tested

- Rainwater harvesting infrastructure
- Climate smart coastal resource management

PROJECT AT A GLANCE

Grant size: USD\$ 49,984.00

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: SSF

Project area: Kaoh Rung commune, Preah Sihanuk district, Preah Sihanuk province

Ecozone: Coastal

Sector/subsector: Natural resources management; rural development; rural water supply services

Partner: Fauna & Flora International

Beneficiaries: 1,573 individuals (754 women/girls), in 212 households



About Song Saa Foundation (SSF)

SSF focuses on protecting and promoting the wellbeing of coastal and marine ecosystems, and the human communities reliant upon them. Programme's activities existed prior to 2013 as part of the community and conservation programme of Song Saa Private Island resort, making the work of the Foundation some of the longest standing marine and coastal work in Cambodia

Mission: Promote sustainable development of the Kaoh Rung archipelago's sea, land and people

Date of Registration: 2013

Areas of work: promotion of coastal and marine ecosystems, socio-economic development, conservation of mangroves and rainforest

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

Grant-support for civil society organizations

Project brief no. 17

February 2017



Promoting Climate Change Resilience among Smallholder Farmer communities

Commune Profile

- **Commune:** Srae Krasang, Kaoh Preah and Ou Mreah communes, Siem Bouk District and Sam Ang and Chamkar Leu communes, Thala Barivat district
- **Population:** 9,699
- **Livelihood activities:** Paddy farming, animal husbandry, fishing, vegetable cultivation, non-timber forest products

Vulnerability Profile

- **Climate hazards:** drought and floods
- **Impacts:** decline in crop yields; food shortages; occurrence of vector and water-borne diseases; loss of livestock; reduced water availability for home gardening
- **Key issues:** cost of renting water pumps is quite high; limited understanding of smallholder farmer communities of climate change impacts and vulnerabilities
- **Traditional coping strategies:** intensified bean gardening; planting of short-duration rice during drought; renting more land to try to recoup losses; pumping groundwater into fields
- **Targeted stakeholders:** rural subsistence farmers

Outcome

Enhanced adaptive capacity of smallholder farmer communities through climate smart agriculture, water resource management, and access to finance, income and information on climate change adaptation (CCA) and disaster risk reduction (DRR)

Outputs

- CCA and DRR activities integrated into community's livelihoods and commune investment plans
- Climate resilient agriculture methods and water management system improved
- Diversified income generation and financial services increased

Adaptation Activities

- Construct a water system that will pump river water to storage tanks and filter systems, and distribute to village households for both human consumption and home gardening in times of drought
- Conduct training for farmers on climate smart agriculture techniques and diversification of agriculture to cope with climate change impacts and increase agricultural production

- Facilitate regular meetings among councils and village chiefs to discuss how vulnerabilities and interventions can be integrated into commune investment plans
- Provide training to commune council members and village chiefs on conducting vulnerability reduction assessment (VRA)
- Provide communities with access to financial services through saving groups to implement agricultural or off-farm activities and help cope with impacts from climate change
- Prepare and publish a guideline on integrating CCA/DRR interventions into commune development plans/commune investment plans, sharing lessons and recommendations from project implementation

Resilience Instruments to be Developed and/or Tested

- Climate smart agricultural techniques such as use of drought tolerant rice, water efficient vegetable growing techniques, climate adapted livestock raising, methods of cyclical farming, and new growing calendars adapted to the changing weather patterns
- Climate-resilient water system for agriculture and domestic uses using solar energy
- VRA tool

PROJECT AT A GLANCE

Grant size: US \$89,974.30

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CRDT

Project area: Srae Krasang, Kaoh Preah and Ou Mreah communes in Siem Bouk District, and Sam Ang and Chamkar Leu communes in Thala Barivat district, Stung Treng Province

Ecozone: plateau and mountain

Sector/subsector: Agriculture, rural development, rural water supply services

Beneficiaries: 1,345 individuals (735 women/girls)



About Cambodian Rural Development Team (CRDT)

CRDT was founded originally as a voluntary university-student initiative called Cambodia Volunteer Rural Development Team. It has since developed a significant community based eco-tourism activity under the name Cambodia Rural Discovery Tours

Mission: To improve food security, incomes, and living standards of poor rural communities in support of environmental conservation in Cambodia

Date of Registration: 2001

Areas of work: environment, education, water and sanitation, renewable energy technologies, environmentally appropriate agricultural development, food security, natural resource management, timber forest products, income generation, renewable energy, accessing finance, vocational training, supporting market linkages, business and marketing advice, ecotourism and community empowerment

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Pilot Program for Climate Resilience (PPCR) CAMBODIA

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Project brief no. 18

February 2017



Innovative Approaches to Community-based Adaptation and Disaster Risk Reduction

Commune Profile

- **Commune:** Trapeang Kranhoung, Trapeang Thum Khang Cheung, Trapeang Thum Khang Tboung, and Ou Saray communes, Tram Kak district
- **Population:** 41,934
- **Livelihood activities:** farming, fishing, chicken raising

Vulnerability Profile

- **Climate hazards:** prolonged drought
- **Impacts:** decline in rice yield; decreased soil fertility; increased water borne diseases; increased mortality among animals; water shortage for irrigation and household consumption; food shortage
- **Key issues:** limited irrigation infrastructure and climate smart agriculture technologies; limited capacity of communities to effectively and sustainably manage and protect resources from climate change impacts
- **Traditional coping strategies:** shift to short duration rice or to non-rice crops to make up for rice losses; use of water pumps to irrigate rice paddies

and fields; digging ponds and wells to store and manage water for agriculture

- **Targeted stakeholders:** women, children and disabled people

Outcome

Enhanced adaptive capacity of communities to apply climate smart innovative approaches to water supply and agriculture in Tram Kak district

Outputs

- Drought-tolerant crops for community vegetable gardening introduced
- Community local chicken raised to adapt to climate change
- Solar pump-based water supply system for families and schools introduced
- Knowledge products on climate change adaptation (CCA) and disaster risk reduction (DRR) developed and disseminated

Adaptation Activities

- Establish vegetable farms with drought-tolerant varieties in schools and community
- Install safe drinking water filtration system in schools to improve health and strengthen adaptive capacity of children and teachers
- Establish a solar-powered community water supply system for families and schools to cope with drought impacts
- Establish model community chick producing centers to raise healthy chickens that can adapt to climate change

- Train farmers in applying climate smart agriculture techniques to cope with drought
- Conduct awareness raising activities on CCA and DRR, including sanitation and hygiene, to strengthen adaptive capacity of communities

Resilience Instruments to be Developed and/or Tested

- Drought-tolerant crops
- Climate-resilient water supply systems
- Climate smart livestock raising practices

PROJECT AT A GLANCE

Grant size: US\$ 95,210

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: SP

Project area: Trapeang Kranhoung, Trapeang Thum Khang Cheung, Trapeang Thum Khang Tboung, and Ou Saray communes in Tram Kak district in Takeo province

Ecozone: delta

Sector/subsector: Agriculture, natural resources, rural development, rural water supply services

Beneficiaries: 23,115 individuals (11,788 women/girls and 8,853 children), 5,320 households



About Sovann Phoum Organization (SP)

SP was originated from the Integrated Development Program implemented in 1994-2000 of Enfant and Development NGO. The program at that time focused on education, income generation, and health

Mission: To ensure that vulnerable people, indigenous communities, women and children have equal access to high quality and effective education services, clean water, hygiene and sanitation practices, health services and economic opportunities

Date of Registration: 2000

Areas of work: education, income generation, health, livelihood, water supply, sanitation and hygiene, gender, and disaster risk management

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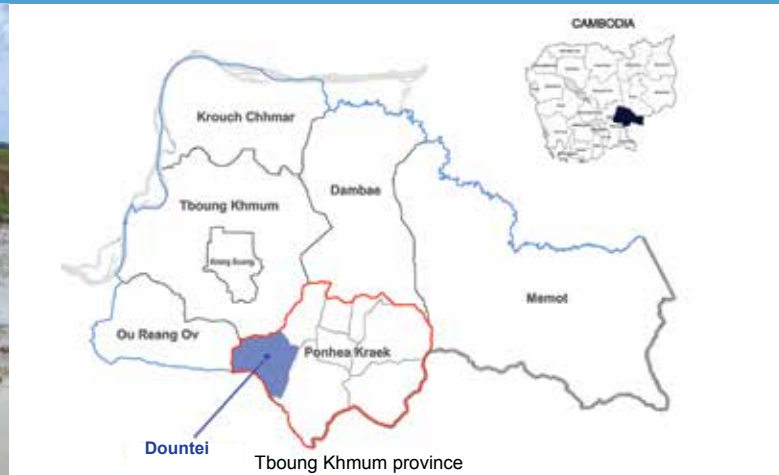
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Pilot Program for Climate Resilience (PPCR) CAMBODIA

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Project brief no. 19

February 2017



Improved Capacity of Vulnerable Communities to Climate Change Impacts in Dountei commune

Commune Profile

- **Commune:** Dountei commune, Ponhea Kraek district
- **Population:** 14,412
- **Livelihood activities:** rain-fed farming, off-farm activities (small enterprises, handicraft making)

Vulnerability Profile

- **Climate hazards:** drought
- **Impacts:** decline in crop yield; food shortage; loss of soil fertility; water shortage; increases in water borne diseases; poor water quality for human and animal consumption
- **Key issues:** limited irrigation infrastructure and climate smart agriculture technologies; limited capacity of local communities to manage and protect water resources from climate impacts; women and children travel long distances to fetch water; limited technical capacity and skill of commune councils to integrate climate smart agriculture into commune investment plans
- **Traditional coping strategies:** if drought happens before planting, planting is postponed until the rain comes

- **Targeted stakeholders:** women and girls

Outcome

Enhanced adaptive capacity of local authorities and vulnerable communities through implementing sustainable water resource management, climate smart agriculture, and water, sanitation and hygiene

Outputs

- Irrigation infrastructure rehabilitated
- Climate smart agriculture techniques adopted
- Water, sanitation and hygiene practices promoted
- Climate change adaptation (CCA) and disaster risk reduction (DRR), especially priorities for children and youth, integrated into commune development plans and commune investment plans

Adaptation Activities

- Rehabilitate existing canal and construct a concrete dam and two culverts to cope with drought and strengthen institutional capacity for water management

- Conduct training for farmers on climate smart agriculture techniques, and distribute seeds of drought- tolerant rice varieties
- Establish water filter groups and purchase water filters for improved health and sanitation of families in times of drought
- Conduct awareness raising campaigns among community members for increased knowledge and understanding of climate change adaptation in the areas of agriculture, water, health, and sanitation
- Conduct regular meetings of commune council, district officials and village elders in using the vulnerability reduction assessment tool to identify CCA and DRR activities for integration in the 2017 commune investment plan

- Integrate CCA and DRR activities into draft commune investment plan

Resilience Instruments to be Developed and/or Tested

- Climate-resilient water infrastructure
- Climate smart agriculture techniques
- Water filtration systems to address health impacts of drought
- Biogas stoves to promote climate friendly energy savings
- Vulnerability Reduction Assessment tool

PROJECT AT A GLANCE

Grant size: US\$ 69,827.20

Project approval date: June 2016

Project completion date: December 2017

Implementing organization: CRID

Project area: 21 villages in Dountei commune, Ponhea Kraek district, Tboung Khmum province

Ecozone: Tonle sap

Sector/subsector: Agriculture, natural resources, and rural development/ agricultural production, irrigation, rural water supply services

Beneficiaries: 1050 individuals, (646 women/girls), and 230 households



About Community Resource Improvement for Development (CRID)

CRID is a local NGO that aims to provide skills training and implement projects on climate change, mitigation, adaptation and health, water and education

Mission: Improve the quality of life of the poorest of the poor, women headed households, people vulnerable to climate change, orphans and vulnerable children and their families by implementing integrated programs that ensure gender equity, safety, health, food security, climate change adaptation, and environmental preservation

Date of Registration: 2010

Areas of work: gender equity, safety, health, food security, climate change adaptation, environmental sustainability, small infrastructure rehabilitation

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