

PROJECT IDEA NOTE 4

Sector	WATER RESOURCES
Subsector	Water supply for households
Technology name	Wells
Project name	Scaling up of flood proof well designs in flood prone areas,
Background	This project consists of the actual implementation of the rural water supply and sanitation strategies, scaling up from the pilot project in Takeo (Project Idea Note 3). As identified in the Cambodian NAPA, the provinces that are highly vulnerable to flood include Prey Veng, Takao, Kampong Thom, Battambang, Banteay Meanchhey and Kampong Cham
Purpose and objectives	Specific objectives of this project are: <ol style="list-style-type: none"> 1. Map out climate stresses and vulnerabilities in each province, and use it for rural water supply planning, 2. Map out available water supply sources of the selected provinces, 3. Design climate-proof wells or suitable water supply technologies for specific locations according to the identified climate stresses, vulnerabilities, and availability of water sources, 4. Construct climate-proof wells design in high risk flood areas, and 5. Monitor and evaluate the constructed wells and compile lessons learned accordingly.
Relationship to national sustainable development objectives	The project will facilitate government commitment in halving population without access to improved water supply by 2015 and provide full coverage of improved access to water supply by 2025.
Project deliverables	Successful completion of the project is expected to strengthen capacity of PDRDs in the selected provinces in planning climate change adaptation projects for rural water supply. The project will not only demonstrate the implementation of an updated version of the rural water supply and sanitation strategy, but also facilitate the implementation of the government organic laws that are in transitional stage. Moreover, the project will build capacity of MRD and PDRDs and promote a culture in climate-informed planning. The climate-proof wells constructed would be an infrastructure output of the project. The project will also produce maps of climate stresses and vulnerabilities of the provinces together with lists of identified suitable climate change adaptations for different localities.
Project scope	The project will be implemented in Prey Veng, Takeo, Kampong Thom, Battambang, Banteay Meanchhey and Kampong Cham, high flood prone provinces.

Annexes

Kingdom of Cambodia

Timeline	3 years
Budget/resource requirements	The project would require about US \$3 million to cover the costs of infrastructure, technical expertise, and administration. Co-funding or/and additional projects from development partners will further contribute to the government's target.
Measurement/Evaluation	Infrastructure inventory can be used as a quantitative indicator, measuring number of wells constructed, while design criteria including construction materials can be used to evaluate whether or not the infrastructure is soundly climate-proof. The longer average life of wells could be a good indicator of good climate proof designs.
Challenges	Shortage of climatic data and projections, and groundwater information poses a significant hurdle to the implementation of the project. There are also limited local investments and shared capital in construction due to high rural poverty prevalence.
Responsibilities and Coordination	The project should be coordinated by MRD, and implemented by PDRDs with technical support from selected local universities and technical specialists. Rural water supply development partners should closely be involved, so that the implementation of the rural water supply and sanitation strategy is widely disseminated. The involvement of a wider range of stakeholders will also enhance cooperation, a key challenge in development efforts in Cambodia.