

2016

Water Supply System

Case Study

Performed at Koh Pdao, Sambo district, Kratie province
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CAMBODIAN RURAL DEVELOPMENT TEAM



OVERVIEW

The community living in Koh Pdao completely depends on the land and river for its survival since they are farmers or fishermen. As the fish stock in the Mekong river has drastically decrease in the last years, the fisherman can't catch enough fish to feed their families, and the local NGO fear a complete disappearance of the fishes in this area.

The installation of a water supply system has several positive consequences on the beneficiaries lives. First, the health is improved since the villagers stop drinking the water from the river and consume now a filtered water. Secondly, as the women and children are in charge of bringing water to the house, with a water supply system they have more time to devote to other activities. Then, such a system increases the food security and the beneficiaries' income.

The water supply system in Koh Pdao has been installed in 2013. A water supply committee has been formed to manage the water consumption, to identify potential problems and to report the progresses and challenges to CRDT.

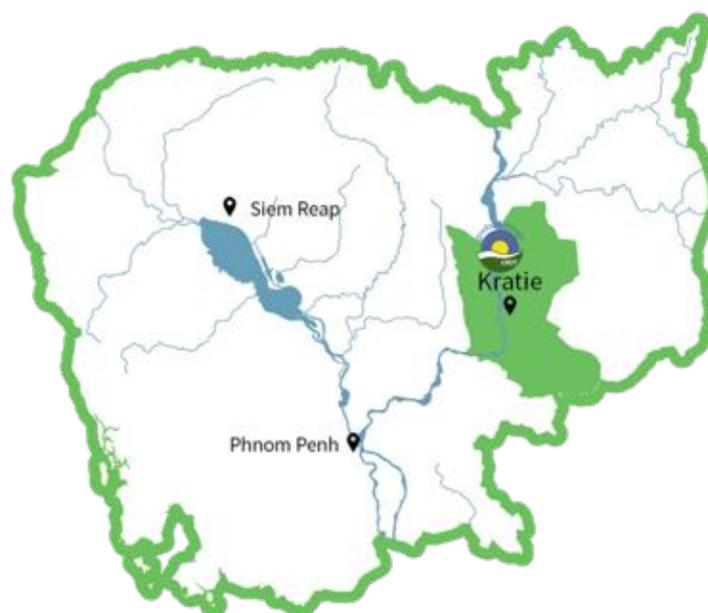
The Water supply in Koh Pdao village was funded under the KUSANONE Grant in 2013. Now, the project has ended and is managed by a CRDT Community Based Organization.



LOCALISATION

This case study takes place in Koh Pdao, a village located on an island in Sambo District, in Kratie Province. This village is located at 45kms from Kratie town, it's a very remote area, only accessible by boat. There is also a Community Based Eco-Tourism there, which received the Certificate of Appreciation from the Ministry of Tourism of Cambodia within the competition "Clean City, Clean Resort and Good Service". This community has been recognized as having a good environment and providing good services in Kratie province.

168 families are living there, and most of the villagers are farmers or fishermen.



A SATISFIED USER OF THE WATER SUPPLY SYSTEM



Family picture of the beneficiaries of the water supply system

Mr. Sorn Chheng is one of the beneficiary of the water supply system of Koh Pdao but also a member of the water committee. This committee's objective is to manage the water supply system and the generator (the machine pumping the water from the river to bring it to the tank is working with fuel), and to report the progresses and challenges to CRDT team.

Mr. Sorn Chheng spends less money on health care since his family is not drinking the water from the river anymore. Thanks to the filter installed in the water tank, the water provided to the beneficiaries is safe to consume. Before, they use to have recurring diseases due to the bacteria in the Mekong river.

Thanks to the water supply system Mr. Chheng also increased his income through his livestock rising. It is indeed easier to raise animals with a direct access to water in the household. Mr. Chheng said "*I am thankful to CRDT for providing water supply for our family, and the community*".



Mr. Sorn Chheng and his wife

Water is very importance to his family.

Mr. Sorn Chheng lives in Koh Pdao village located on the Mekong River. He and his wife raise three children, two boys and one girl. His family main income sources are from farming, livestock raising and crash crop growing. Thus, water is essential for them. Usually, they carried water from the river to use for household consuming. *“I have faced many difficulties when I had to carry the water up from the river, especially during the dry season because the distance is longer. As you see, I am raising pigs, and they consume a lot of water. I needed to carry water three times a day, and I was also busy with other farming work. I was exhausted all the time before having the water supply”* explains Mr. Sorn Chheng.

Vegetable and rice growing are most priority production to provide nutritious food and increase the income

The purpose of installing water tank was also to supply water for home-gardening and household using such as rice, vegetable and other crops growing because they are the most nutritious food and generate the more incomes for families in the community. Meanwhile, by supporting the activities on their house yard, we reduce the pressure on fishery and other natural resources in the Mekong river.

The Water Supply System

The beneficiaries use the water supply because it is really convenient

Mr. Sorn Chheng is one of the water supply users since 2013. He is using water supply for his livestock raising. *“The water costs 2300riels per m³, and I use it both for household and livestock consumption”* he says.



The beneficiaries don't have to use the dirty water from the river anymore

Mr Sorn Chheng explains: *“Since our village has the water supply system we have a water pipe in the back yard of my house. Of course, we use this system during the dry season because the river access is further, even if the access is less dangerous than during the rainy season due to the strong water current. Nevertheless, we also use the pipe during the rainy season because it is really more convenient to access to water near the house. So, now we don't have to go to the river to take this dirty water anymore.”*

They are happy to pay the price of using clean water

“He is happy to pay 2300r/m³ for a unit of water use for my family. Because the money goes the committee to maintain the system, 40% to community group, and 60% for fishery and forestry conservation. Before, we had to expense a lot of money for health care, because of all the diseases we catch by using the river water”, Mrs. Sorn says.

Water users in Koh Pdao Village



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