

Sector	WATER RESOURCES
Subsector	Water Supply for Agriculture
Technology name	Small Reservoirs, Small Dams and Micro-Catchmentsⁱ
Scale	Small/medium
Availability	Short Term, Medium Term
Technology to be included in prioritisation	<ul style="list-style-type: none"> - Assessing technologies through multi criteria analysis (based on TNA team assumption through assessment criteria, and TNA Tool).
Background/notes	<ul style="list-style-type: none"> - The Royal Government has prioritized the rehabilitation, construction, maintenance and efficient management of irrigation infrastructure, water reservoirs, canals, pipes and water pumping stations to increase irrigated areas and boost agricultural production (NSDP Update, 2009-2013); - In addition, NAPA has identified and prioritized many water related projects in specific locations (SNC-V&A Assessment, 2010).
Implementation assumptions	<ul style="list-style-type: none"> - The attempt here is to support the implementation of NAPA water infrastructure related projects; - Construct, repair and maintain all types of existing small reservoirs, small dams and micro-catchments, produce jumbo cement water jars for household use as well as build small-scale irrigation system.
Impact Statements (how this option impacts the country development priorities)	
Country social development priorities	<ul style="list-style-type: none"> - Cambodia has been identifying development priorities as part of NAPAs, NSDP Update 2009-2013, Poverty Reduction Strategy, Policies, National Communications (INC and SNC) to the UNFCCC; - The Royal Government priority to the rehabilitation, construction, maintenance and efficient management of water reservoirs, canals, pipes, drainages and water pumping (NSDP Update 2009-2013);
Country development priorities	<ul style="list-style-type: none"> - Prioritising rehabilitation and construction for economic purpose of reservoirs, ponds, canals and drainage system to ensure the water supply for cultivated land areas, aquaculture, daily use and animals.
Country environmental development priorities	<ul style="list-style-type: none"> - Strengthening environmental protection and sanitation to preserve unpolluted water and clean environment; - Maximising the mitigation of flood effects and build capacity to prevent floods from rain; - Avoid polluting water resources in order to protect ecosystems
Other consideration and priorities such as market potential	<ul style="list-style-type: none"> - Improving quality, business efficiency, and governance of water works

Capital costs over 10 years	- The capital investment for community water infrastructures is usually beyond the resources available to a village or even a cluster of villages. A multiple use reservoirs that can meet the needs 2-3 villages will cost a minimum of US \$15,000 to construct.
Operational costs over 10 years	- Villagers are expected to contribute labour towards the maintenance of the reservoirs, which should bring down operational costs significantly.
Other costs over 10 years	N/a

ⁱ **This fact sheet has been extracted from TNA Report – Kingdom of Cambodia - Technology needs assessment and technology action plans for climate change adaptation. You can access the complete report from the TNA project website <http://tech-action.org/>**