



Sri Lanka: Rapid Assessment of Sea Water Desalination and Other Alternative Water Sources for Jaffna Water Supply

Project Name	Rapid Assessment of Sea Water Desalination and Other Alternative Water Sources for Jaffna Water Supply
Project Number	48273-001
Country	Sri Lanka
Project Status	Active
Project Type / Modality of Assistance	Technical Assistance
Source of Funding / Amount	<p>TA 8668-SRI: Rapid Assessment of Sea Water Desalination and Other Alternative Water Sources for Jaffna Water Supply</p> <p>Technical Assistance Special Fund US\$ 225,000.00</p>
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth
Drivers of Change	Governance and capacity development Knowledge solutions
Sector / Subsector	Water and other urban infrastructure and services - Urban water supply
Gender Equity and Mainstreaming	No gender elements
Description	<p>The main purpose of the SSTA is to support NWSDB to conduct a rapid assessment of the feasibility of desalination of sea water and other alternative water sources in order to provide safe drinking water in Jaffna Peninsula. The impact will be improved access to safe drinking water in Jaffna Peninsula. The outcome will be identification of a reliable alternate drinking water source for Jaffna Peninsula. The output will be completion of rapid assessment of desalination of sea water and other alternate water sources in Jaffna Peninsula.</p>
Project Rationale and Linkage to Country/Regional Strategy	<p>L2710/L2711 for Jaffna-Killinochchi Water Supply and Sanitation Project (Project) was approved on 29 November 2010 and was made effective on 6 May 2011. The main objective of the Project is to provide safe drinking water to 300,000 people and improved sanitation to 80,000 people in Jaffna Peninsula in the Northern Province of Sri Lanka. The Iranamadu irrigation tank in Killinochchi has been selected as the water source for the Project. This tank is being used by the farmers in Killinochchi district to irrigate their cultivations. A Memorandum of Understanding (MOU) was signed in 2007 between the National Water Supply and Drainage Board (NWSDB) and the Ministry of Agriculture and Irrigation of North East Provincial Council to share the water from the Iranamadu tank with the farmers, for purposes of the Project. The Project plans to raise the Iranamadu tank bund by two feet to enhance water retaining capacity. However, concerns have been raised by the Northern Provincial Council (NPC) and the farmers with regards to the water adequacy in the Iranamadu tank to share the water for drinking water needs in the Jaffna Peninsula.</p> <p>A water balance study carried out by the Project in 2013 concluded that the water supply to Jaffna Peninsula, as then proposed, could be met without major deficits, but that total supply failure could take place 27 days per year. This meant that water shortages would be experienced by both the farmers and drinking water consumers during drought periods. Under these circumstances, NWSDB decided to investigate and develop alternative water sources to be used during drought seasons. Potential alternative water source options identified are: (i) ground water extraction in Jaffna Peninsula; and (ii) development of surface water reservoir in the downstream of Iranamadu command area. Several studies have been carried out, both under the Project by NWSDB, as well as by other agencies, to assess the potential of alternative water resources in Jaffna and Killinochchi districts as drinking water sources for Jaffna Peninsula. The government has decided to review these studies and to assess the feasibility of alternative water sources. In addition, in the absence of the Iranamadu water sharing agreement, the government is currently considering the possibility of a more reliable water source to Jaffna Peninsula by desalination of sea water.</p>
Impact	Improved access to safe drinking water in Jaffna Peninsula.

Project Outcome

Description of Outcome	Identification of a reliable alternate drinking water source for Jaffna Peninsula
Progress Toward Outcome	
Implementation Progress	
Description of Project Outputs	A rapid assessment of desalination of sea water and other alternative water sources in Jaffna is completed.
Status of Implementation Progress (Outputs, Activities, and Issues)	
Geographical Location	

Summary of Environmental and Social Aspects

Environmental Aspects	
Involuntary Resettlement	
Indigenous Peoples	
Stakeholder Communication, Participation, and Consultation	
During Project Design	Stakeholder participation and Consultation through workshops, community mobilization, and consultation conducted for discussion on the potential water sources and feasibility of desalination plant.
During Project Implementation	Stakeholder participation and consultation through workshops, community mobilization, and consultation conducted for discussion on the potential water sources and feasibility of desalination plant.

Business Opportunities

Consulting Services	Will engage individual consultants in accordance with ADB's Guidelines on the Use of Consultants by Asian Development Bank and Its Borrowers (2013, and as amended from time to time), using the bio-data selection method
Procurement	Not Applicable

Responsible Staff

Responsible ADB Officer	Huang, Jingmin
Responsible ADB Department	South Asia Department
Responsible ADB Division	Urban Development and Water Division, SARD
Executing Agencies	<i>Ministry of Water Supply and Drainage Sri Lanka</i>

Timetable

Concept Clearance	-
Fact Finding	-
MRM	-
Approval	11 Jun 2014
Last Review Mission	-
Last PDS Update	27 Mar 2017

TA 8668-SRI

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
11 Jun 2014	-	11 Jun 2014	30 Nov 2014	30 Nov 2017	-

Financing Plan/TA Utilization						Cumulative Disbursements		
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
225,000.00	0.00	25,000.00	0.00	0.00	0.00	250,000.00	11 Jun 2014	176,972.84

Project Page <https://www.adb.org/projects/48273-001/main>

Request for Information <http://www.adb.org/forms/request-information-form?subject=48273-001>

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