aXis
持続可能開発目標達成支援事業

Highlights 2020

ICRE

Reinforcing and accelerating technologies for ensuring domestic water security by water resources diagnosis and decentralized treatment system

Goal

This research aims to ensure the water security in two regions, Kathmandu Valley in Nepal and Volta basin in Ghana, with updated health and water related information (water resources diagnosis) and Locally-fitted, Compact and Distributed (LCD) water treatment system, by reinforcing the achievements from the previous SATREPS project

The three specific groups accelerate the social implementation
- G1: Mapping of water cycle
- G2: Visualize the water quality and health risk information
- G3: Update the LCD water treatment system

Teams

Japan

ICRE
UNIVERSITY OF YAMANASHI
Univ. of Yamanashi

KITA SATO UNIV.
Kitasato Univ.

Nepal

Kathmandu Valley Water Supply Management Board (KVWSMB), Ministry of Water Supply

Ghana

Institute of Environment and Sanitation Studies (IESS), University of Ghana

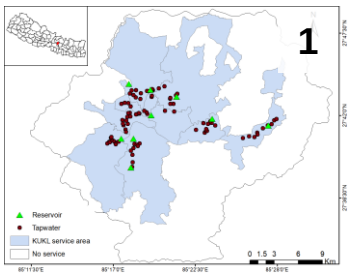
Highlights 2020

G1: Mapping of water cycle

1: Sampled location for tap water in the Kathmandu Valley, Nepal

2: Annual precipitation analysis of the Volta basin, Ghana

3: Estimation of water supply and demand in Volta basin, Ghana



G2: Visualize the water quality and health risk information

1&2: Collection of wastewater sample in the Kathmandu Valley, Nepal

3: Laboratory analysis of waterborne pathogens in samples collected

G3: Update the LCD water treatment system

1&2: Installation of LCD system by varying treatment capacity in the Kathmandu Valley, Nepal

3: LCD system for wastewater treatment in Yamanashi, Japan