

## Collaborative Research on Feasible Technologies and Strategies for Safe Drinking Water in Southeast and South Asian “Belt and Road” Countries

Drinking water safety is a big issue and challenge for the society development and the people healthy and happiness in “Belt and Road” countries. In the past over ten years, CAS RCEES has made much progress in technologies invention and implementation for rural areas, foreign-aid projects promotion, and international networks built-up. This project aims to establish collaborative research with distinguished professors from Burma, Nepal, Sri Lanka, and Bangladesh, and to jointly develop feasible and sustainable drinking water purification technologies and integrated facilities for local residents, i.e., the community-level pond systems for non-point pollution protection, feasible and low cost technology towards seriously-polluted sources water with extremely high concentrations of organics and ammonia, and suitable technologies for the removal of arsenic and fluoride in underground water. After that, this project is expected to implement these innovations in at least 3 cases for future reference. Additionally, this project will make efforts to establish the ANSO regional network in water and environment field for sustainable cooperation among in Southeast and South Asian countries, and to accelerate knowledge transmission and experiences sharing accordingly. Finally, we will submit the research report and propose the consultant and advisory report to the government to advance the foreign-aiding projects.

Besides this, we have realized the importance of knowledge transmission, and with the collaboration with UN-Habitat, we plan to train technicians and talents by short- and long-term training courses and postgraduate education, and the training courses are to be held not only in China but also in oversea countries. Furthermore, this project will make efforts to establish the ANSO regional network in water and environment field for sustainable cooperation among in Southeast and South Asian countries, and the scientists, technicians, engineers, and managers are expected to be involved in to accelerate knowledge transmission and experiences sharing. We will also organize the bilateral and multilateral workshops and the regional and international conferences to strengthen the academic motivation and knowledge sharing.

Finally, we will submit the research report on drinking water safety and propose the consultant and advisory report to the government to advance the foreign-aiding projects greatly.





