Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka

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Climate & Rain Fall

- **Tropical**
  - Lowland Temp Ave 27° C
  - Mountainous Temp Ave 15 ° C
- **Mean annual rainfall of Sri Lanka is around 2,000 mm (900 mm-5500 mm)**
- **3 climatic zones**
  - Dry zone (, Intermediate zone & Wet zone)
- **Two Monsoons**
  - SW-April- Sept
  - NE- Oct- March
- **65% of the surface run off escape to the sea**
Season has changed to drought and floods.
Water Quality Issues (Chronic Kidney Disease of unknown etiology - CKDu)
Therefore, people face difficulties because of limited or no access to safe drinking water.
Water scarcity and poor water quality has mainly affected women and children’s lives.
Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka

- Project period Oct 2016 - March 2025
- Locations: Northern (Kilinochchi, Mullaitivu, Mannar), Uva (Badulla, Moneragala), North Central (Anuradhapura)
Project focused on high drinking water vulnerable DSD’s
Safe Disaster - Resilient Drinking Water to Floods & Drought Prone Areas in Sri Lanka

Selected GND’s for Household and School RWHS to be Implemented in Kilinochchi District
Demonstrate and provide disaster-resilient water supplies to vulnerable communities in war affected and dry zone areas of Sri Lanka

Construction of 110 Demonstration rain water harvesting systems (storage and/or recharge) in rural schools benefitting 350,000

Establishment of 10 demonstration RWH system in Rural hospitals/ Medical Clinic

Construction of over 1000 Domestic Rain Water Harvesting Systems over 4000 people

Install 10 RWH system through loan cum grant scheme

Rehabilitate disused 700 RWH systems in the project areas

Recharge 750 wells over benefiting 3000 people
Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka (2016-2022) - Kilinochchi and Mullaitivu District - Map of Served Schools

From 2016 to 2022 the project has successfully completed 33 school RWHS (30,000 l), 2 weather stations.

Source: WASSIP (WASSIP Project Areas)
Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka (2016-2022) - Kilinochchi District

From 2016 to 2022, the project has successfully completed:
- 220 household RWHS (6,000 l).
- 23 school RWHS (30,000 l).
- 4 hospital RWHS (16,000 l).
- 2 weather stations.

Map created on: January, 2022

Source: WASSIP (WASSIP Project Area)
Build capacity of officials, professional and communities on rain water harvesting technology to influence the policies and practices of flood and drought management

Training 585 Officials and 110 Professionals on Rainwater harvesting technology

Training 155 masons (youth and women)

Establishing the training facilities of the Rain Center

Establish Mobile Weather Stations in 4 schools

Short film Competition 3 films

Walk for Rainwater

International Conference Nov 2018

Water Quiz in schools over 6000 students participation

Home gardening competition for school children

School wall art competition

Establish SARNET (South Asia network on RWH)

Established a Resource Centers in Kilinochchi, Badulla and Mullaitivu

Survey of Existing RWH in 15 districts

Publicity: newsletter, publication, website, social media, newspaper articles
Well Recharge

- Well Water Quantity Improvement
- Well water quality improvement
Impact

- Safe drinking water to community during floods
- Water stored for drought/Covid-19
- Improvement in health (CKDu/Fluorosis/Covid)
- Water at the Door Step for Women & Children
- Food Security : More drop for crop
Thank you