

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



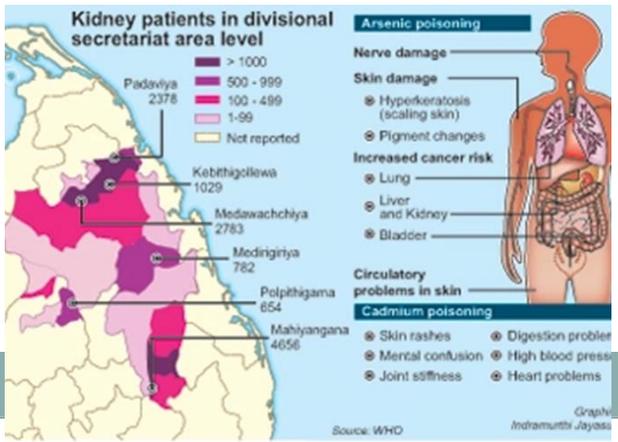
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# Water crisis

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, Mullativu, Mannar), Uva ( Badulla, Moneragala), North Central ( Anuradhapura)



Project focused on high drinking water vulnerable DSD's

**Legend**

 Selected GNDs for hospitals RWHS

 Selected GNDs for schools RWHS

 Drought Pron GNDs

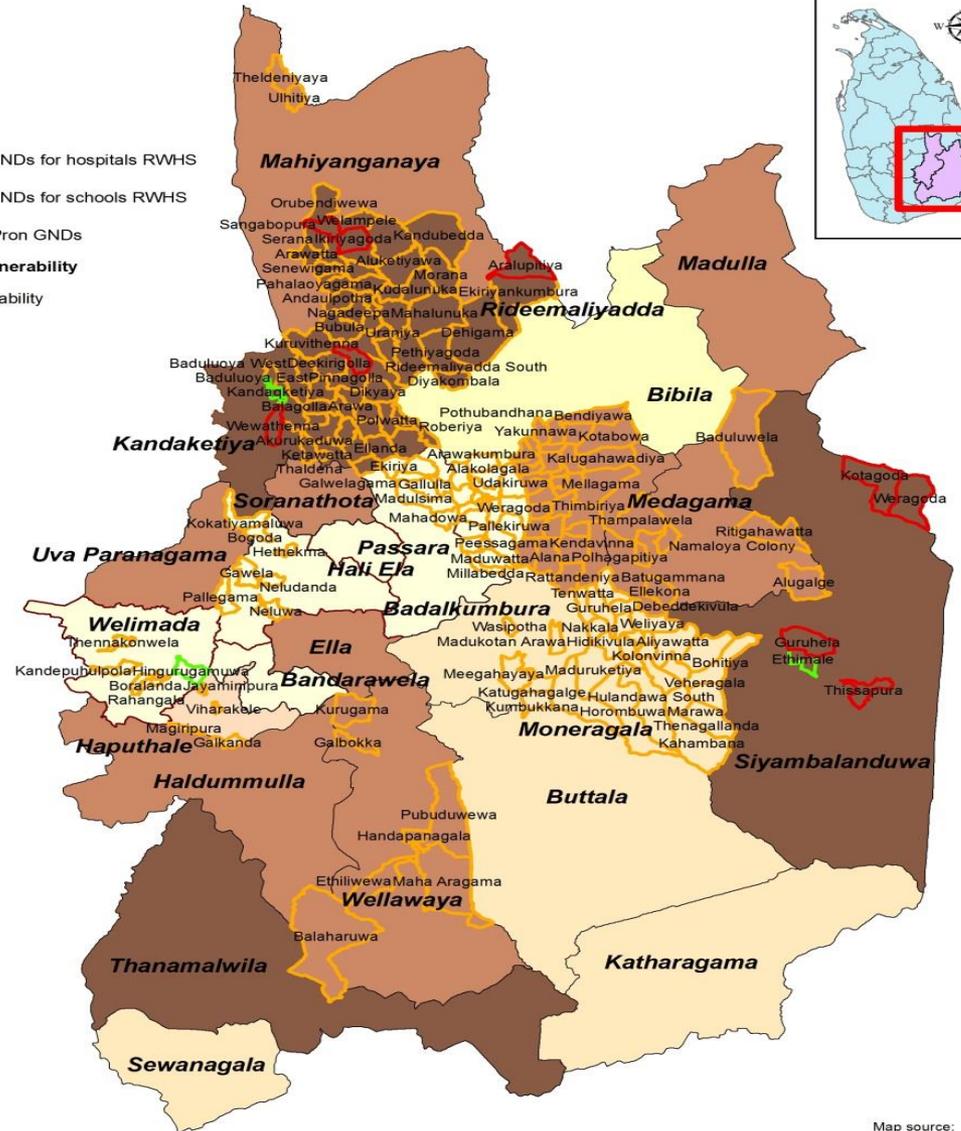
**Drinking Water Vulnerability**

 No vulnerability

 Low

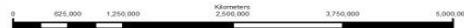
 Moderate

 High



Map source:

NWSDB- ADB Project 2016 , IWMI - Water Vulnerability DMC - Drought Pron Areas





# 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

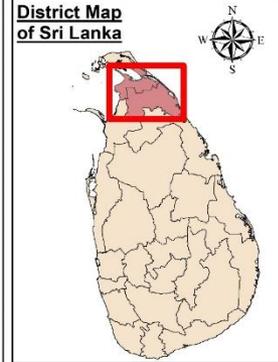
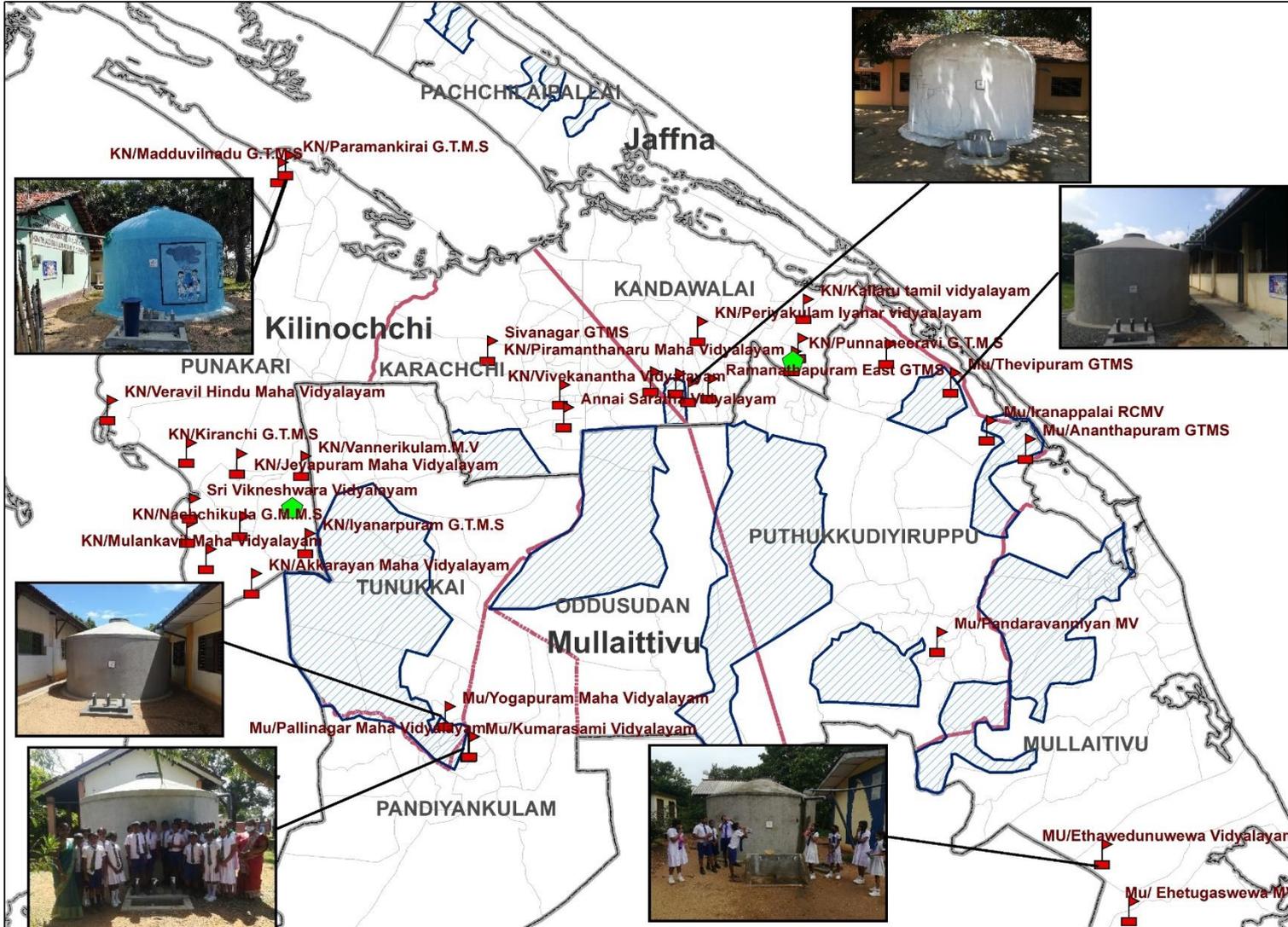
Rehabilitate disused **700** RWH systems in the project areas

Recharge 750 wells over benefiting 3000 people





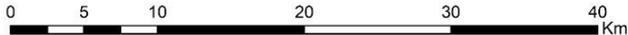
# Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka (2016-2022) - Kilinochchi and Mullaitivu District - Map of Served Schools



- Legend**
- School RWHS
  - Weather Station
  - WASSIP Project Area
  - DS Division
  - District

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

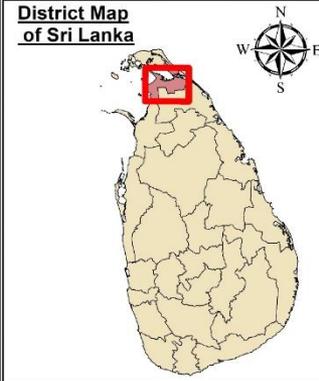
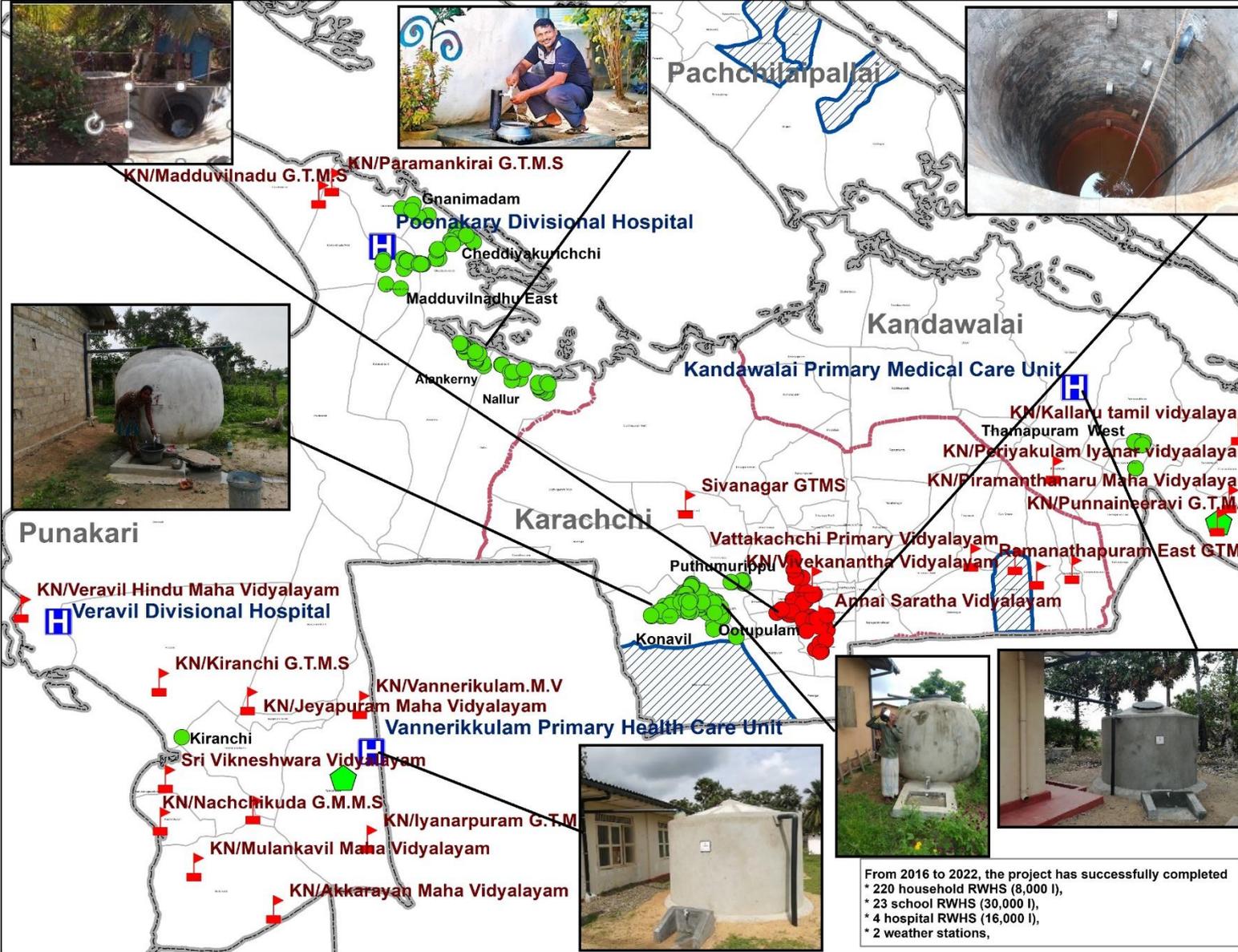
Source :- WASSIP (WASSIP Project Areas)



Map created on: January, 2022



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



- Legend**
- School\_RWHS
  - Household RWHS
  - Ground Water Recharge System
  - Hospital RWHS
  - Weather Station
  - WASSIP Project Area
  - DS Division
  - Districts



From 2016 to 2022, the project has successfully completed

- \* 220 household RWHS (8,000 l),
- \* 23 school RWHS (30,000 l),
- \* 4 hospital RWHS (16,000 l),
- \* 2 weather stations,

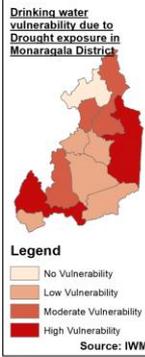
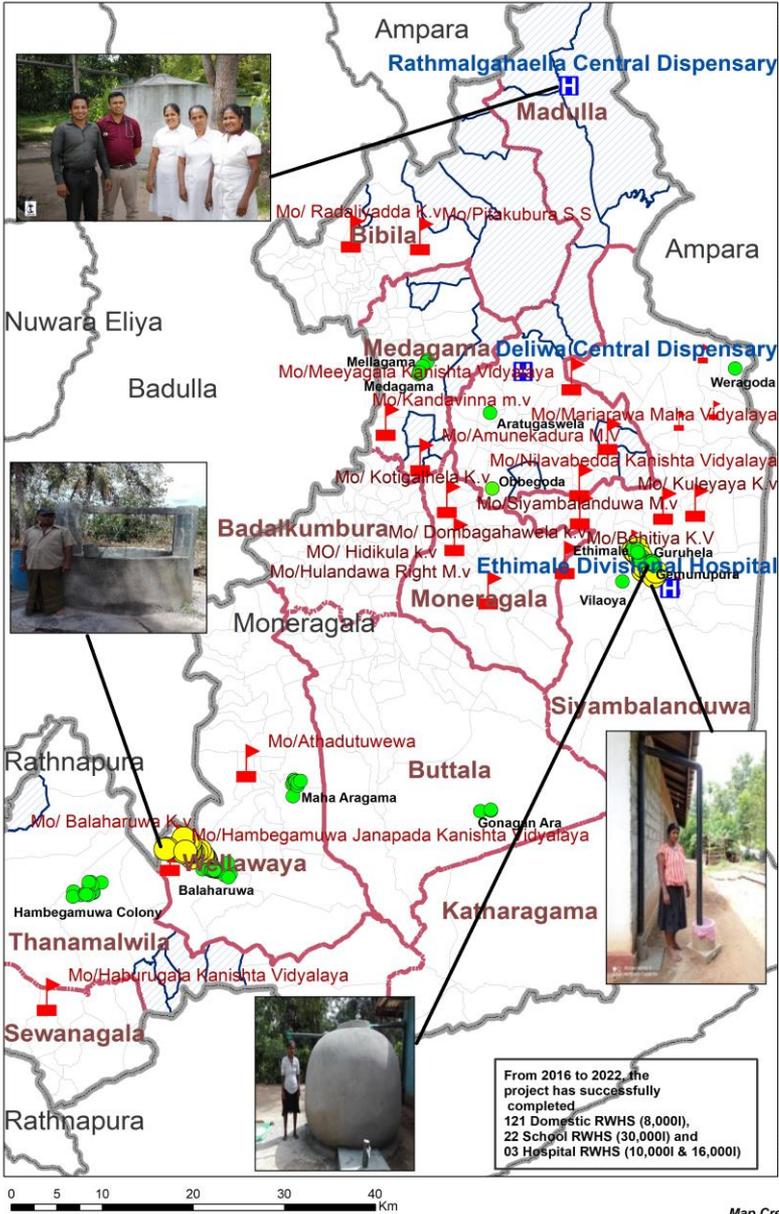
Source -: WASSIP (WASSIP Project Area)



Map created on: January, 2022



### Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka Monaragala District (2016-2022)



From 2016 to 2022, the project has successfully completed:  
 121 Domestic RWHS (8,000),  
 22 School RWHS (30,000) and  
 03 Hospital RWHS (10,000 & 16,000)

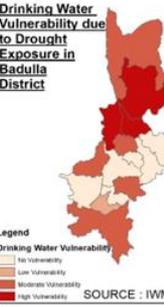
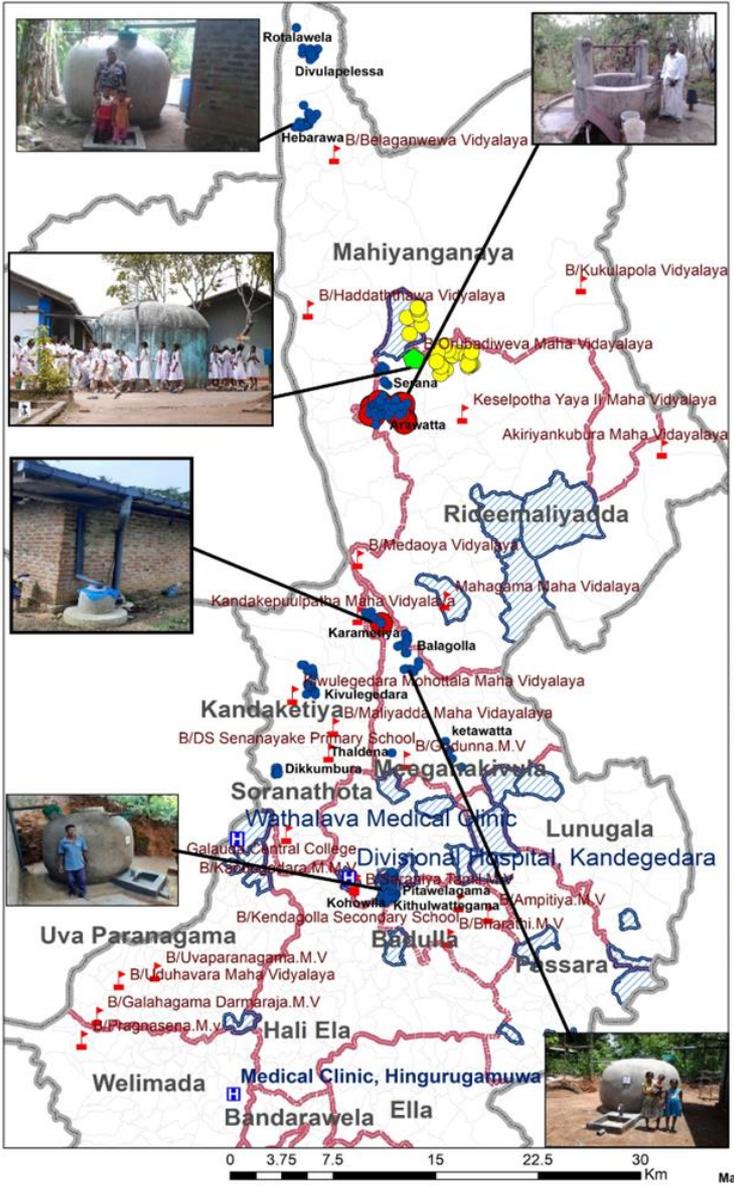
Source :- WASSIP (WASSIP Project Area)



Map Created on: January, 2022



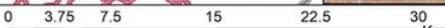
### Safe Disaster-Resilient Drinking Water to Floods and Drought Prone Areas in Sri Lanka (2016-2022) - Badulla District



From 2016 to 2022, the project has successfully completed:  
 - 221 domestic RWHS (8,000 I)  
 - 23 school RWHS (30,000 I)  
 - 03 hospital RWHS (16,000 I)  
 - 01 weather station while rehabilitating 26 household RWHS.



Source :- WASSIP (WASSIP Project Area)



Map Created on: January, 2022

# 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

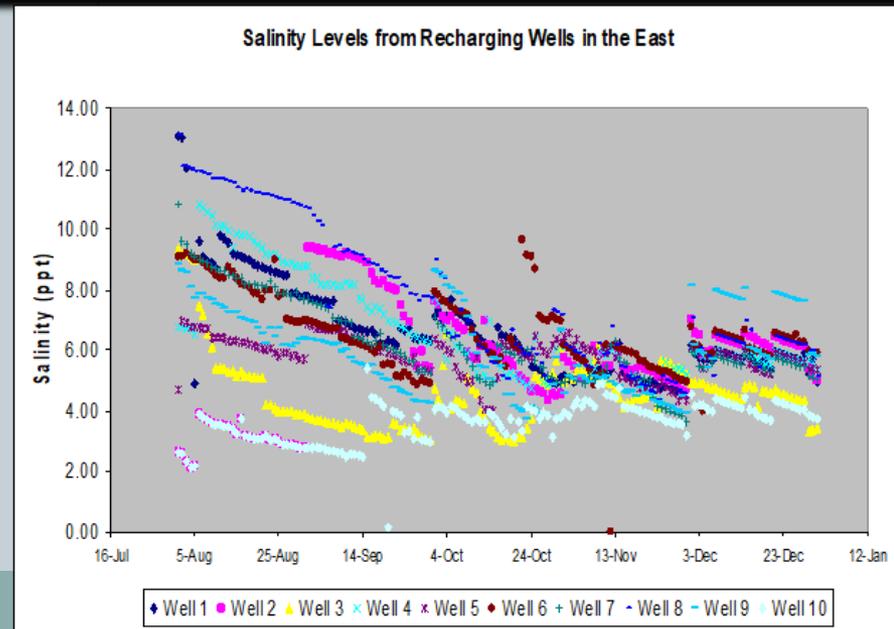
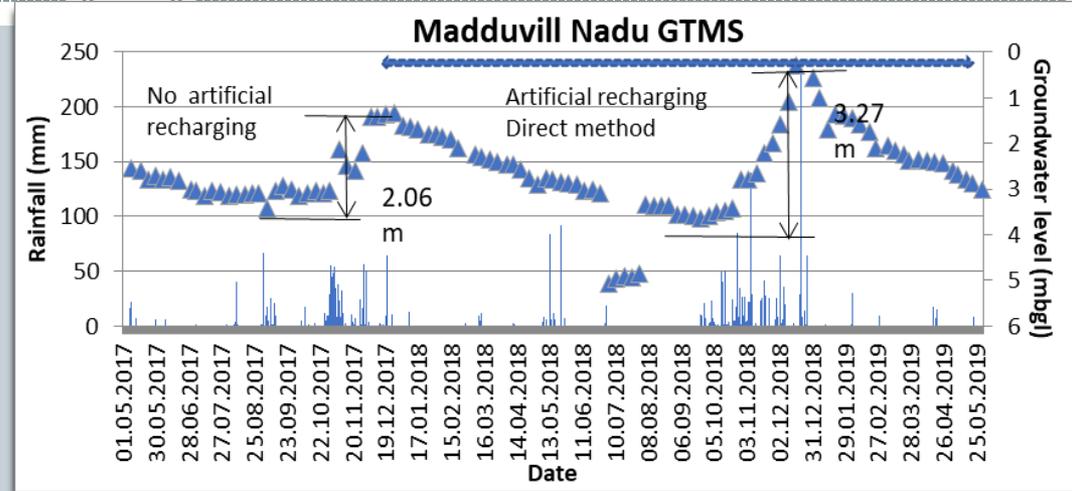
Survey of Existing RWH in 15 districts

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

