

# Report of Installing Rainwater Harvesting Systems at B/Kandegama Vidayalaya Mahiyangana, Badulla

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Date: 13<sup>th</sup> June 2023



**Lanka Rain Water Harvesting Forum**

## Context

Request was made by Pernod Ricard Lanka (Pvt) Limited, to identify a school in Mahiyanga area without adequate water supply to support to install a rainwater harvesting system (RWHS) as part of marking their annual , Responsibáll Day. Initially B/Uraniya Vidayalaya, Mahiyangana, Badulla was selected to provide with a RWH system following a request made from Principal of the school ( Annex 1). Accordingly a proposal was submitted to Pernod Ricard Lanka (Pvt) Limited by LRWHF. However, when LRWHF field Co-ordinator visited the location to make arrangement , NWS&DB offices were at the site to give a pipe water connection to the school. Thereafter, B/Kandegama Vidayalaya Mahiyangana, Badulla was selected to install a RWH system due to water scarcity at this school which was highlighted by a letter from Assistant Director District Disaster Management Unit in Badulla ( Annex 2) and letter from the principal of the school ( Annex 3).

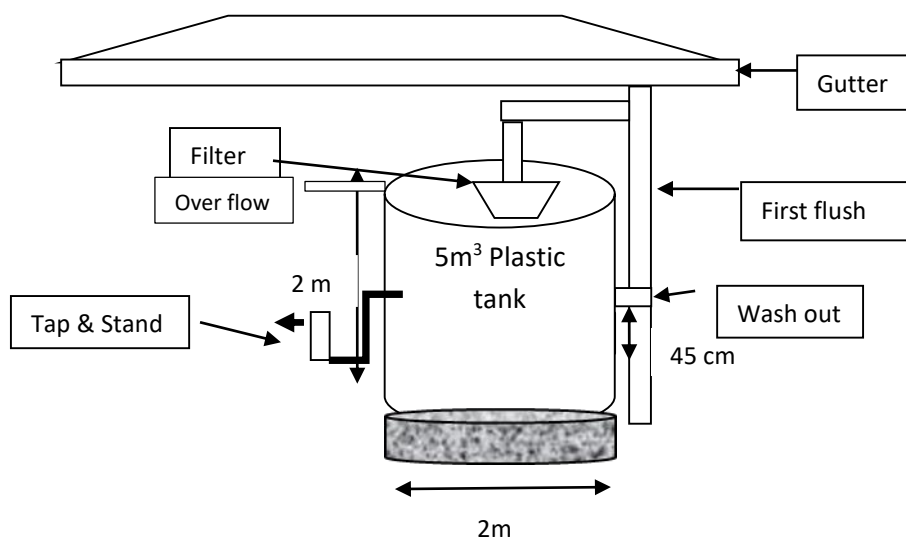
## Detail of the RWH System

Although the initial proposal was submitted estimated installation of  $2 \times 10 \text{ m}^3$  PE tank, due to low roof height of the buildings in the B/Kandegama Vidayalaya the  $10 \text{ m}^3$  tanks could not be installed. Therefore, instead  $4 \times 5 \text{ m}^3$  tanks were proposed in consultation with Pernod Ricard Lanka (Pvt) Limited. Due to this reason additional 2 bases had to be installed, which needed additional funds. An estimated was submitted to Pernod Ricard Lanka (Pvt) Limited which was approved.

## Specification

4 x 5,000 liter ( $20 \text{ m}^3$ ) ferrocement or PE tank of above ground tank, 100 ft Gutter lengths, First flush systems, washout for cleaning , filter, safe lid and tap with stand to extract water

## THE PARTS OF THE PLASTIC TANK ( $5 \text{ M}^3$ )



Installation period: 2nd -8th June 2023

## Instillation of RWH system at B/Kandegama Vidyalaya Mahiyangana







O&M to beneficiaries

### Beneficiary Contribution

- Selected a suitable location with the advice of the mason and to clean the surrounding area before construction
- Provided easy access to mason and material transport during construction
- Provided unskilled labour support during construction ( 20 man days )
- Provided food and accommodation for 02 masons during construction
- Provide construction aid such as water for cement mixing, ladders, ect.

## Project Cost Budget

	Items	per unit SL Rs.	No. of units	Estimated Cost SLRs.	Actual cost SLRs.
1	4 x 5,000 liter PE tank with skilled labour and accessories without base	142,000	04	570,000	568,000
2.	Installation of 4 based ( materials and Labour cost)			65,700	62,000
3	Supervision and Coordination	4 days	10000	40,000	40,000
	Total			675,700	670,000

## Service Provided by LRWHF

- Materials and skilled labour necessary for construction of Rain water harvesting system to the above specification
- Supervision and monitoring during construction
- Operation and Maintenance Training to beneficiaries done on the 9<sup>th</sup> June 2023
- Repairs up to 6 month of installation.