

Rain Water Harvesting System at Soodaikuda Barathi School in Muthur DSD in Trincomalee District

Hairu Construction Project

Final Report

Reporting Period: 28th May - 23rd July 2018

Activity	Status	Reference
Activity 1: 30, 000L RWH System construction		
1.1.Selection of School	Selected 1 school Tri/ Soodaikuda Barathi school	
1.2 Construction of 01 RWHS	One rain water harvesting system consisting of 34,000 liter Ferro cement tank, high base, 2 first flush system, 2 filters with filter media (charcoal + metal), 3 taps with ball valve and tank overflow connected to nearest water sump (underground). Construction started on 19 th June and completed on 08 th July 2018 (16 working days).	Annex I
1.3 Conduct O&M Program	O&M program was conducted to site technical officer in charge since the school is under construction and no students present	
1.4 Extra benefit	<ul style="list-style-type: none"> Base raised by 1' 2" since the site is water logging. The tank volume raise to by estimated 4,000L to fill the dome area by taking advantage of the high roof height of the two floor building. Estimate tank volume 34,000 L Over flow of the RWH tank directed to the sump 	

Annex I

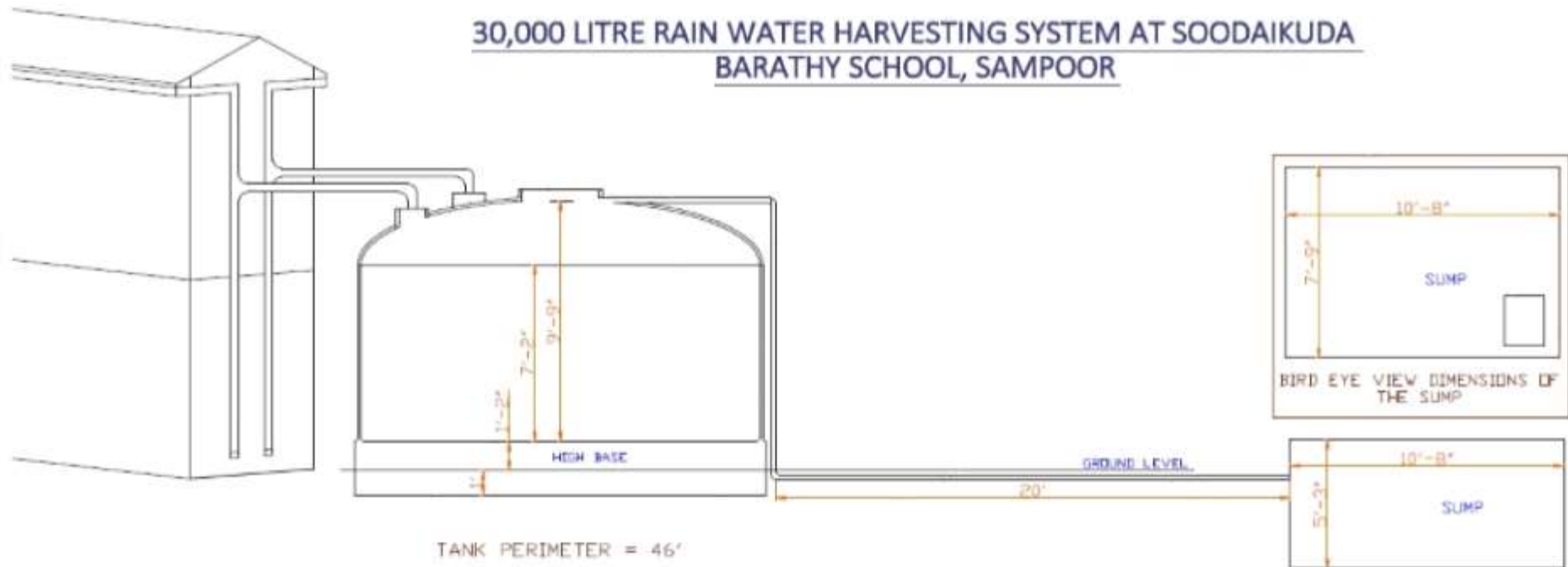
	
Selected school building	Work for high base
	
Filling metal dust in base and compact	Wire mesh work
	
Complete RWHS	Completed RWHS with Tap, First flush, and overflow etc


		
first flush	Custom made GI Square pipe to PVC round pipe	
		
Overflow of RWHS connected to sump		

Statement of Accounts

Activity	Actual cost
Installation of 34 m3 Storage tank, first flush, filter, two taps, overflow pipes connected to sum, access door	700,000
Minus Installation of gutters and down pipes : already present	-18500
Extra :Construction of higher 1' 2" base : Materials and labour	68,300
Extra: Connecting over flow to the water sump 20' away	2000
Total cost	715,800
Advance paid	490,000
Balance due	261,800

30,000 LITRE RAIN WATER HARVESTING SYSTEM AT SOODAIKUDA BARATHY SCHOOL, SAMPOOR



	DESIGN OF FERRO CEMENT RAIN WATER HARVESTING SYSTEM				
	LANKA RAIN WATER HARVESTING FORUM				
	30,000 litre Ferrocement tank				
DRAWN BY K. I. U. T. De Silva	DESIGNED BY	CHECKED BY	DRAWING NO.	DATE July, 2019	