

COMPLETION REPORT FOR RAINWATER HARVESTING STRUCTURES

(RAIN WATER COLLECTION & RECHARGE)

Sponsored by
Trident Pneumatics Pvt Ltd, Coimbatore



Implemented by



CSR REGISTRATION NUMBER - CSR00000023

“CONNECTING CLOUDS TO THE AQUIFERS”



Construction of RWH Structures

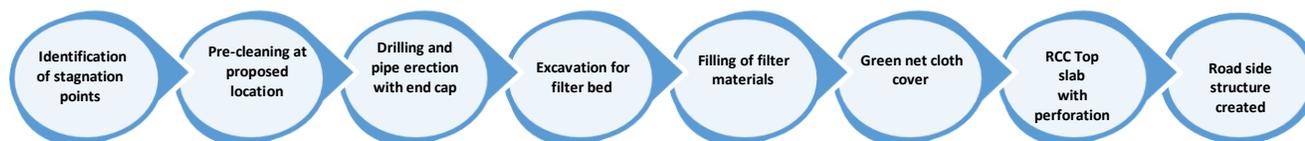
Rainwater harvesting is done to conserve precious rooftop and surface run-off water which would otherwise drain outside the premises or stagnate in the open areas. Stagnation deprives usage of the space and could turn as a breeding ground for mosquitoes. The harvested water artificially recharges the aquifers below. The term artificial recharge refers to any human intervention which helps to introduce water into the subsurface system or aquifers. Artificial recharge structures aim at augmenting the natural replenishment of ground water storage by suitable methods of construction.

Project Details:

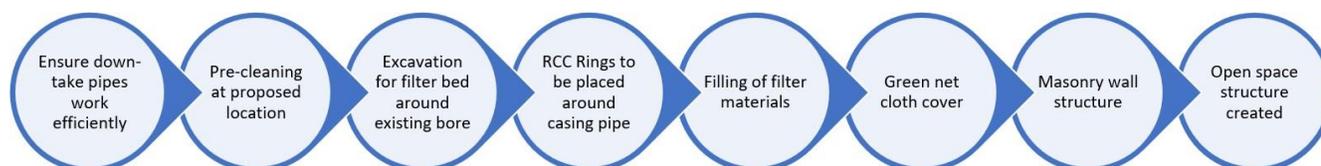
Rainwater Harvesting Structure has been installed at the following locations- Swathanthra Higher Secondary School, Vaiyampalayam, Police Recruits School, Coimbatore, S P Bungalow, Coimbatore and Forest Ranger Office, Periyanaickenpalayam.

S.no	Premises	Location	Type
1	Swathanthra Higher Secondary School, Vaiyampalayam	11.132323, 76.995774	Open-space
2	Forest Ranger Office, Periyanaickenpalayam	11.143363,76.942898	Open-space
3	Police Recruits School, Coimbatore	11.011393,76.977495	Open-space
4	S P Bungalow, Coimbatore	11.006563, 76.98667	Road-side

The process followed for road-side rainwater harvesting:



The process followed for open-space rainwater harvesting using existing bore:



Location 1 – Swathanthra Higher Secondary School

Execution details:

Water stagnation was observed within the playground obstructing the daily usage. A low-lying point was identified and an open space rainwater harvesting structure model was implemented.

Visual progress of the project:

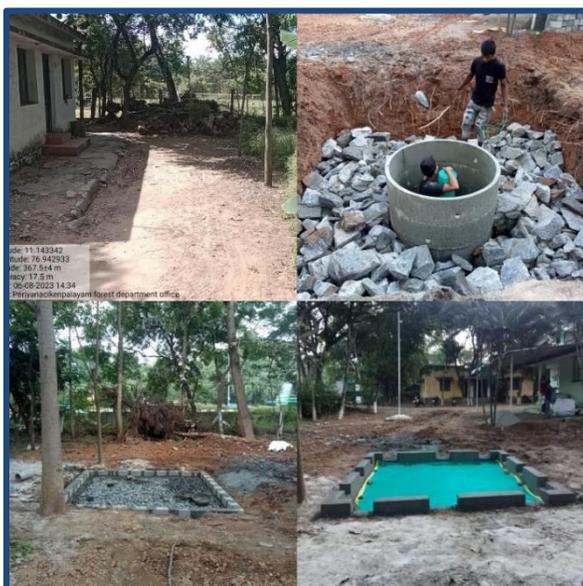


Location 2 – Forest Ranger Office

Execution Details:

Rainwater Harvesting Structure has been installed at a low-lying point within the premises of Periyanaickenpalayam, Forest Ranger Office. Open space rainwater harvesting structure was implemented for collecting all roof-top and surface water to avoid further stagnation

Visual progress of the project:



Location 3 – Police Recruits School

Execution Details:

The existing defunct borewell located within the Police Recruits School campus has been converted into a rainwater harvesting structure. An open space rainwater harvesting structure was implemented.

Visual progress of the project:



Location 4 – S P Bungalow

Execution Details:

Rainwater Harvesting Structure has been installed at a low-lying point within the premises of S P Bungalow. Stagnation was observed near the main gate due to the run-off water from the main building. To overcome the problem a road side rainwater harvesting structure was constructed near the main gate.

Visual progress of the project:



Outcome

All rainwater falling into the campus will reach the rainwater harvesting structure. This will also help in preventing stagnation within the open spaces.

Impact

The rainwater harvesting structure will help to recharge the aquifers and increase the water-table in the surrounding areas

TOTAL VOLUME OF WATER HARVESTED				
S.no	Location	Area covered (acres)	Volume collected (ml)	Cost estimated
1	Swathanthra Higher Secondary School	4.5	11.8	156000.00
2	Forest Ranger Office	0.75	1.97	156000.00
3	Police Recruits School	0.49	1.28	109482.00
4	S P Bungalow	1.65	4.33	174574.00
	Total	7.39	19.38	

Siruthuli would like to place an accord to M/S Trident Pneumatics Pvt. Ltd for enabling the collection of 19.38 million litres of rainwater every year from a total of 7.39 acres which is approx. 1293 tankers of water every year (Considering 1 tanker can carry 15000 liters of water).