



SRES's
SHREE RAMCHANDRA COLLEGE OF ENGINEERING
Lonikand, Pune – 412216

Rooftop Rain Water Harvesting.

It is a technique through which rain water is captured from the roof catchments and stored in reservoirs. Harvested rain water can be stored in sub-surface ground water reservoir by adopting artificial recharge techniques to meet the household needs through storage in tanks.

We have provided rooftop rain water harvesting in our college and during last monsoon (2021) we have collected 1306.24 m^3 of water and the same water is used during summer.

The following are the details.

1. Out-let at the terrace 04 numbers of diameter 4 inch. Two at building "A" and two at building "B".

2. Roof area of Building.

a. Roof area of building "A" 1042.2 m^2

b. Roof area of building "B" 860 m^2

Total roof area 1902.2 m^2

3. Total quantity of rain water collected during the last year 2020,

$Q = \text{Mean annual rainfall in mm} \times \text{Area of roof in } \text{m}^2 \times \text{Runoff factor.}$

$Q = 763 \text{ mm} \times 1902.2 \text{ m}^2 \times 0.90 = 13,06,240.74 \text{ liters of rain water.}$

$Q = 1306.24 \text{ m}^3$



Geo tag Photo:



A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke at the end.

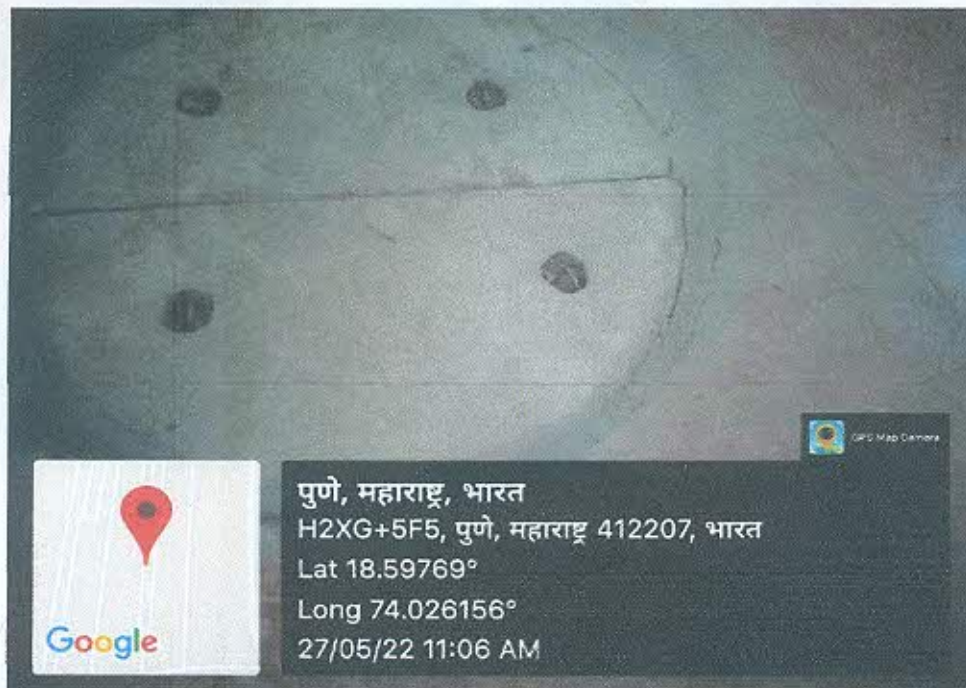


Geotag Photos

1. Rain water harvesting



2. Borewell /Open well recharge



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3. Maintenance of water bodies and distribution system in the campus



Blind



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