

## **Title of the case study: Environmental Protection – Promotion of Greenery – Green Energy – Water Conservation**

### **Basic information:**

- Time period of the case study: 2022-2023
- Location (specific site, if applicable): Ranga Reddy District , Telangana, India.
- Brief background: The year 2017 onwards we saw many different climate-related challenges in Telangana region as well across the country. While many different factors play a role, a significant one is the steep reduction of green cover. This severely affects us in different ways like increasing carbon gases, tackling the problem of pollutions, destruction of natural habitats of animals and birds, soil erosion.

Apart from plantation, the other most important factor for environmental protection is using a clean, green source of energy. Solar power is a great way to reduce your carbon footprint. There's nothing about solar power that pollutes mother nature. Solar power doesn't release any greenhouse gasses, and except for needing a source of clean water to function, it uses absolutely no other resources. Hence, it's safe and environmentally-friendly.

Solar power is self-sufficient and installing solar panels on your roof is a safe and easy path to contribute to a sustainable future. Starting on your home is a great way to show you care about the environment.

With this backdrop and keeping in view the objective of Cyient Foundation to achieve long-term, holistic development of the community and committed for environmental protection, Cyient Foundation has pledged to plant over 10,000 plant samplings every year and also committed to afforestation in and around the Cyient Facilities and also pledge to use the green energy and achieve the net neutrality in carbon emission, soil protection and water conservation.

### **Details of the case:**

- What issues or challenges were faced?
  - The environment getting impacted with carbon emissions
  - Green House Gasses and heat waves around the city
  - Poor quality of air in the city of Hyderabad
  - The ground water is being dropped year on year
  - No water conservation and water harvesting in the city
  - The rain water is not been tapped into the soil and going into drains
  - The energy consumption is increased day by day due to urbanization
  - Natural resources are getting exhausted day by day
- What was the approach taken to address these challenges?

Cyient has been responsible to the community, environment and the mother earth. Cyient Foundation put the step forward in rejuvenating the mother earth by participating in Plantation, Water Conservation and Green Energy.

The Cyient Foundation Environmental Protection initiatives started from the offices, the adopted schools, adopted communities and the skill centers.

Cyient Foundation had initiated numerous initiatives in protecting the environment.

- Started planting trees since FY 2016-17, started with 5000 samplings and year on year reached to 16000 plant samplings.
- Engaged Cyient Associates and their family members in plantation drives, encouraged the Cyient Adopted Schools children to plant trees and adopt plants in their communities
- Started plantation in and around adopted schools, urban forestry lands, parks and walkways and foot paths.
- To collect large amounts of water that helps in mitigating the effects of drought. Also causing less stress to the water table.
- Conducting environmental awareness programs in collaboration with various NGO's to motivate pro-conservation attitudes and sustainable practices by enhancing knowledge, skills and action competence.
- School Building Roof tops to tap the rain water and rain water harvesting.
- Installed solar panels on School Building Roof tops to generate green energy for the schools usage

**79,828**

Planted close to 80 K in the last 7 years, since FY16-17

**31,042**

Developed green cover in 31K Square Meters since the last 5 years.

**10,162**

FY 22-23 over 10 K children participated in plantation drives across the community

**86.2%**

Plants survival rate is increased from 82.05% to 86.21% in the last 5 years.

**41.3%**

Across the schools created environmental protection awareness to children

**81.3%**

Over 80% of the Children actively participated in environmental drives in schools.

Planted over 79,828 samplings in the last 7 Years. (including current year)

The survival rate is progressed from 82% to 86%.

Developed over 31,000 Square Meters of Land in and around Telangana and AP.

Received Haritha Haram award for the 7th Consecutive year from Minister for MU&AD and IT of Telangana State

In 12 schools developed rain water conservation from schools, community, centers roof top.



**2,361**

Over 2.3K sq.ft roof tops  
 were installed with solar  
 panels in two schools



**78,756**

Two schools with ~ 6KW  
 and ~ 30KW exported  
 units increased.

**61,128**

Total units saved in AY23  
 Export:78.7 K,  
 Import:17.6K

**44.6%**

Increase in energy  
 savings for the  
 AY2022-23 in two  
 schools.



**100%**

Usage of green energy in  
 two adopted schools



**3%**

Import units reduced by  
 3% in the last two AY's

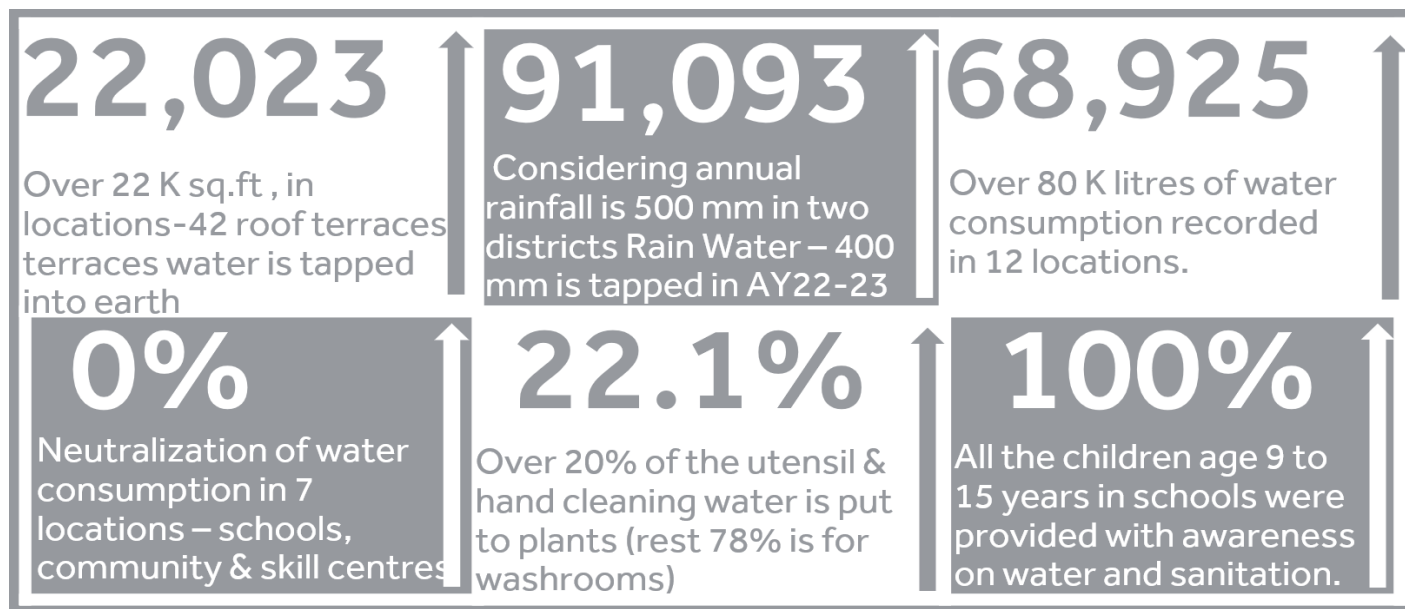


- What was the benefit of the initiative?

Impact:

- Planted over 79,828 samplings in the last 7 Years. (including current year)
- The survival rate is progressed from 82% to 86%.
- Developed over 31,000 Square Meters of Land in and around Telangana and AP.
- Received Haritha Haram award for the 7th Consecutive year from Minister for MU&AD and IT of Telangana State
- In 12 schools developed rain water conservation from schools, community, centers roof top.
- Generated over 61000 units of the excess green energy and is distributed to the community
- Cyient Rajbhavan School is producing energy over and above the usage and is certified by IGBC with green building
- The school is awarded by IGBC and received appreciation from the CII Telangana.
- The water usage neutrality is achieved in two of the schools

- Please indicate if there are any specific quantitative KPIs or measurable indicators that demonstrate the value created/ outcomes of the interventions.



School Name	Location	Panels Capacity	Export Units / FY2022-23	Import Units / FY2022-23	Units Saved
MPP & ZPH Schools	Rajbhavan, Hyderabad	4 KW – 6 KW	6264	5916	348
MPP & ZPH Schools	Gachibowli, Hyderabad	25 KW – 30 KW	72492	11712	60780
<b>Total</b>			<b>78756</b>	<b>17628</b>	<b>61128</b>



## Photographs:

- A picture depicting the benefits received / illustrative image of the activity/support provided
- Note: No selfies, pictures at public places, etc. make sure the picture is professional keeping in mind the purpose of reporting







Attached the Rain Water Harvesting Pits Photos:



# Water Harvesting Pics- Version 1.0.pdf