

# INDEPENDENT IMPACT ASSESSMENT CYIENT ENVIRONMENTAL INTERVENTIONS FY2023-24

SPONSORER: CYIENT LIMITED.,



**MANGALA**  
**GROUND WATER**  
**CONSULTANCY**



## INSPECTION STATEMENT ON CSR IMPACT ASSESSMENT:

*Cyient Foundation via a request letter to conduct Social Impact Assessments (SIA) of projects / programs / activities for the FY2023-24 on the Environmental Initiatives*

Prepared by:

Mangala Ground Water Consultancy

GEO Technologies

KSR EVER

### **The Objective**

*Cyient to achieve long-term, holistic development of the community by working on the Environmental Development projects related to Go-Green, Green Energy and Water Conservation.*

*The overall objective of the study is to evaluate the impacts created by Cyient Foundation Environmental activities.*

**Specific Objectives:**

- *To understand the benefits and challenges of the Go-Green: Plantation Drives*
- *To understand the benefits and challenges of the Water Conservation and Rain Water Harvesting in and around Cyient Schools, Skill Centers and Adopted Villages.*
- *To understand the benefits and challenges of the Green Energy usage in the Cyient Adopted Schools*
- *To identify the gaps in operationalization and implementation.*
- *To recommend corrective measures to strengthen the program and improve the program implementation*
- *Assess the social impact created and recommend for improvements if any*

**Methodology:**

- *A qualitative approach was adopted for this study to understand field issues holistically and present them comprehensively in the report.*
- *In terms of primary data collection, the team used the following tools*
  - a) Key informant interviews (KII): To access the views of the key decision makers and stake holders at the ground / local level*
  - b) Focus Group Discussions (FGD): To understand the beneficiaries perception on the initiative, its benefits and challenges*
  - c) Telephonic Interviews: To understand the views of participants, stakeholders, and Community Members*
  - d) Survey Questionnaire & Written Questionnaire: Take the feedback from the beneficiaries like School Administration, Skill Centre Staff and Community.*



## Limitation of the study:

*The current assessment study is conducted in Cyient Adopted Schools, Cyient Skill Centers, and Cyient Adopted Villages*

*The main rationale for any evaluation exercise is to improve the effectiveness and impact of a program by reflecting on how the program is working or not working vis-à-vis the policy laid down. It endeavors to measure the impact in terms of stated objectives and examines the gap between the intent and outcome of scheme or program. Effective monitoring and evaluation of the program/scheme is a powerful tool for tracking progress and demonstrating the relevance, performance and impact of a given project or a program*

## Project:

**Community Development & Environment**

**Ensuring Environmental sustainability, ecological balance**

**Conservation of natural resources and maintaining quality of soil, air & Water**

**Promoting Sanitation**

---

## Project Need:

*Environmental Initiatives: Impact of using Solar Power for Cyient Schools: As a renewable source of power, solar energy has a key role in reducing greenhouse gas emissions and mitigating climate change, which is critical to protecting humans, wildlife, and ecosystems. Solar energy can also improve air quality and reduce water use from energy production.*

*Impact of planting Trees: Tree plantation is very necessary because trees provide oxygen to the environment and make the air quality better. If more trees are planted, then the world's environment will become a safer place to live in. Tree plantation also reduces pollution, thus making the life of future generations secure.*

*Importance of the Rain Water Harvesting: It provides water when a drought occurs, can help mitigate flooding of low-lying areas, and reduces demand on wells which may enable groundwater levels to be sustained. Rainwater harvesting increases the availability of water during dry seasons by increasing the levels of dried borewells and wells.*

Over 40K Square Meters of Urban Land developed with Green Cover

In 14 schools developed rain water conservation from schools, community, centers roof top.

Until date over 1 Lakh units (1,06,756 Units) of Solar Energy generated in schools

Last 5 years over 12.8K KG's of paper waste collected – Wellness out of waste initiative.

Over 4.5 K Notebooks distributed in exchange of paper waste by ITC

Over 16.8 K students from Adopted Schools participated in paper waste donation

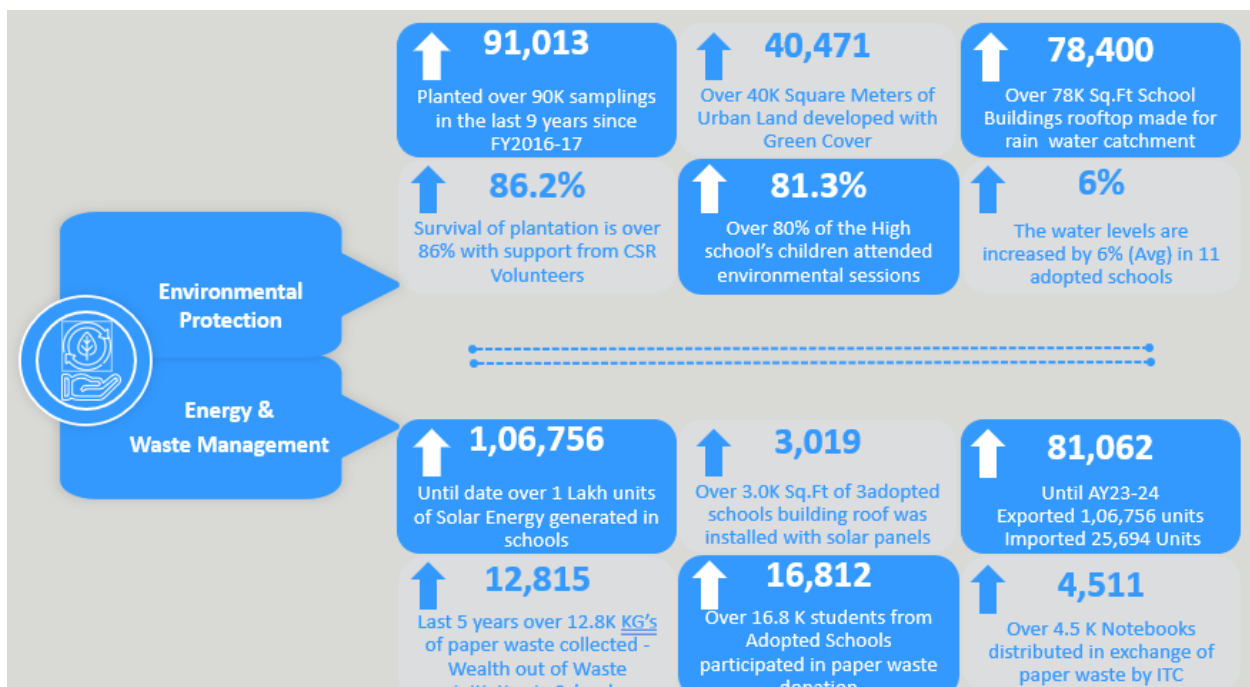
Until AY23-24 Exported 1,06,756 units Imported 25,694 Units and 81,062 potentially saved.

Over 78K Sq.Ft School Buildings rooftop made for rain water catchment

## PROJECT DESCRIPTION

*Cyient is working on the Environmental protection initiatives by planting trees every year since 2016 in and around the Cyient Adopted Schools, Community Centers, Skill Centers and in Urban Forestry Lands.*

*Cyient Foundation is being responsible to the Environmental Protection by participating in Rainwater Harvesting and Water Conservation initiatives in the communities where it operates. Cyient is developing Rainwater Harvesting Pits and harvesting the rainwater for recharging the ground water levels. The Adopted Schools roof tops are scientifically used to tap the rainwater take it to the ground through pipes and recharge the borewell pits and water harvesting pits.*



## Energy interventions

*Cyient Foundation installed solar panels in three of the school building roofs and started generating Green Energy and the school's energy consumption is green energy and the excess energy generated is distributed to the community needs by putting on to the state government power stations.*

School Name	Location	Panels Capacity	Export Units / FY2023-24	Import Units / FY2023-24	Units Saved
MPP & ZPH Schools	Raj Bhavan, Hyderabad	25 KW – 30 KW	13494	6827	6667
MPP & ZPH Schools	Gachibowli, Ranga Reddy	25 KW – 30 KW	39104	11712	27392
MPP & ZPH Schools	Khajaguda, Serilingampally	4 KW – 6 KW	5210	3206	2004
<b>Total</b>			<b>57808</b>	<b>21745</b>	<b>36063</b>

While the government is taking measures to overcome the water crisis, hundreds of citizens and communities across the country are doing their bit by practicing Rainwater Harvesting (RWH).

On average, every school uses around 500-600 liters of water every day for the usage.

Considering annual rainfall is 500 mm:

Type of Buildings	No Of Rooms – Terrace	Classroom size
School Building	45	25 ft X 25 ft
Community Halls	4	82 ft X 90 ft
Panchayathi Office	2	30 ft X 30 ft
Skill Centers	8	109 ft X 102 ft
<b>Total</b>	<b>59</b>	



**Environmental Initiatives FY23-24**

Water Conservation	<ul style="list-style-type: none"><li>• Developed 59 Rainwater Harvesting pits in Adopted Schools – Tapping the rainwater.</li><li>• Over 78K Sq.Ft School Buildings rooftop made for rain water catchment</li></ul>
Go-Green Initiatives	<ul style="list-style-type: none"><li>• Until date Planted 90,013 plants with 86% survival</li><li>• This year planted over 15000 plant samplings.</li><li>• Over 40K Square Meters of Urban Land developed with Green Cover</li></ul>
Impact Created	Ground water levels increased by 2 to 3 Feet – Mangala Ground Water Consultancy

**Overall Impact Summary**

- Energy savings through solar energy
- Rain water harvesting helping the ground water recharge
- Plantation promotes green cover and helps the plant earth in fighting against the GHG

**CONCLUSION**

*Seen year on year progress and suggestions and observations were implemented.*