



नवीन एवं
नवीकरणीय ऊर्जा मंत्रालय
MINISTRY OF
NEW AND
RENEWABLE ENERGY



MINDFUL IMPRESSIONS

Targeting 2070 Workforce - A **GRIHA** Publication





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Targeting 2070 Workforce - A **GRIHA** Publication

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PREFACE

It is with great pride and a deep sense of responsibility that I present this booklet on the evaluation of 379 Navodaya Vidyalaya Samiti (NVS) schools including 312 PM SHRI schools under GRIHA for Existing School (ES) rating variant. This is a significant marker in our collective efforts to embed the principles of sustainability into the very fabric of our educational institutions. GRIHA Council has always been committed to fostering an environment where sustainability is not just a concept but a living experience.



By integrating sustainability into daily operations and activities of schools, we ensure that students and teachers become active partakers in our stride towards sustainable future. The 2070 goals, which aim for net-zero emissions and a significant reduction in our environmental footprint, cannot be achieved without the active involvement of today's youth, who are the decision-makers of tomorrow.

The students and teachers of these NVS schools are at the forefront of this endeavor. By adopting sustainable practices, these schools are not only reducing their environmental footprint but also setting a powerful example for others to follow. This booklet is an evidence of the collective effort and devotion of the NVS community to create a sustainable environment.

I would like to extend my heartfelt congratulations to the Navodaya Vidyalaya Samiti, the principals, teachers, administrative and non administrative staff, and students of these schools, as well as my team at GRIHA Council, for their unwavering commitment towards this initiative. Together, we are building a more robust and sustainable built environment, one that will support and foster the ambitions of future generations.

Sanjay Seth
Vice- President
&
C.E.O GRIHA Council



MESSAGE

Schools play a pivotal role in providing a conducive environment to our budding generation in acquiring the right set of knowledge, skills, values and attitude required for the sustainable development of our country as we attempt to mitigate climate change. Navodaya Vidyalaya Samiti (NVS), an autonomous body under the aegis of the Ministry of Education, Government of India, set up the Jawahar Navodaya Vidyalayas (JNVs) to harness and predominantly unlock the potential of rural talent.



These schools have evolved into an unparalleled success story in the realm of school education in India. NVS schools are also integral to the PM SHRI School initiative, where out of 661 NVS schools, 312 schools are actively involved as PM SHRI Schools.

To further our commitment to sustainability, NVS entered an Memorandum of Understanding (MoU) with GRIHA Council during the 15th GRIHA Summit in 2023. Under this collaboration, 379 schools across India were evaluated by GRIHA Council, on various sustainability parameters under the GRIHA for Existing Schools rating. Most of our schools have achieved 4- and 5-star ratings. Through this exercise, students and teachers were sensitized on the various aspects of sustainability that can be integrated in day-to-day lifestyles.

This publication “Mindful Impressions – Targeting 2070 Workforce” is a dossier of the reduced environmental impact of all these schools, as against conventionally operational buildings, by integrating sustainable practices such as energy, water and waste management along with tree plantation. Furthermore, adoption of strategies for cultural and heritage conservation, universal accessibility and environmental awareness have turned these schools into models of sustainability that empower the community and support the holistic development of students.

I extend my sincere appreciation to the Principals, Vice Principals, In-Charge Principals, teaching and non-teaching staff and students for their dedication and efforts to make their schools sustainable. I also acknowledge the invaluable guidance and training provided by GRIHA Council, which has been instrumental in facilitating the evaluation process. This collaboration has set a benchmark for sustainability in educational infrastructure, offering our students a unique opportunity to learn and grow within a sustainable framework. We are dedicated to cultivating a cadre of informed, educated and trained individuals, who will serve as environmental stewards, contributing to the vision of a developed India by 2047 and beyond, as we accelerate sustainable development towards 2070.

Shri. Vinayak Garg

Commissioner,
Navodaya Vidyalaya Samiti,
Ministry of Education.



ACKNOWLEDGEMENT

GRIHA Council would like to thank Navodaya Vidyalaya Samiti for being a part of the journey to sustainability and to participate in this green building drive.

We are grateful to Shri Vinayak Garg, IRSEE (1995), Commissioner, Navodaya Vidyalaya Samiti (NVS), Ministry of Education, Government of India (GoI) for spearheading this activity.

We would like to thank Shri Sameer Pandey, I.R.S., Joint Commissioner (Admin), NVS, Ministry of Education, GoI for carrying the zeal to create environmental awareness amongst students and teachers across the country.

We express our sincere gratitude to Shri Gireesh Kumar, Deputy Commissioner (SA), NVS, Ministry of Education, GoI for his able assistance which allowed for successful completion of the activity within the stipulated timelines.

We would like to express our sincere gratitude to all principals for extending their support in the thorough implementation of green building strategies in the school campuses.

We would like to convey our thanks to the teachers, administrative staff, non-administrative staff and students for their commitment towards the cause of sustainability and facilitating the entire process of rating with their genuine efforts.

Last but not the least, we would like to thank the Ministry of New Renewable Energy (MNRE), GoI and The Energy and Resources Institute (TERI) for their unwavering support to GRIHA Council in promoting sustainability and in the endeavor to build green infrastructure across the country.

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INTRODUCTION

An Overview

Building operations and construction account for more than one-third of global energy-related carbon emissions. Buildings, to some extent, reflect the ideology and thinking of their occupants. This is even more valid for schools wherein students spend the majority of their waking hours during their formative years in the school buildings.

Educating students about sustainability is essential for global sustainable development. Education may raise awareness, empower individuals, and can help students learn the importance of safeguarding biodiversity, conserving natural resources, and mitigating climate change. Students can actively participate in sustainable practices such as recycling, energy conservation, and sustainable consumption patterns, by cultivating an environmental friendly mindset.

The GRIHA for Existing Schools rating has been formulated with the intent to develop a proactive attitude amongst students and teachers to reduce their environmental footprint and adopt a greener lifestyle.

Key Features

- 1) Simple calculator based approach for ease of understanding by school students.
- 2) Simplified sustainability concepts for easy implementation by students and teachers.
- 3) Simplified technical terms for students.
- 4) Fun activity based learning.

GRIHA for Existing Schools Rating

The rating has been developed as a framework to evaluate and rate the environmental performance of existing school campuses. The evaluation is done using calculators with pre-fed data; students and teachers work collaboratively to meet the requirements of the rating. The rating is a 50-point system consisting of six primary sections, namely energy management, occupant comfort, air quality, water management, waste management and social parameters.

Table 1: Points system in GRIHA for Existing School rating along with the corresponding star rating

Points Achieved	Star Rating
25-29	★
30-34	★★
35-39	★★★
40-44	★★★★
45-50	★★★★★

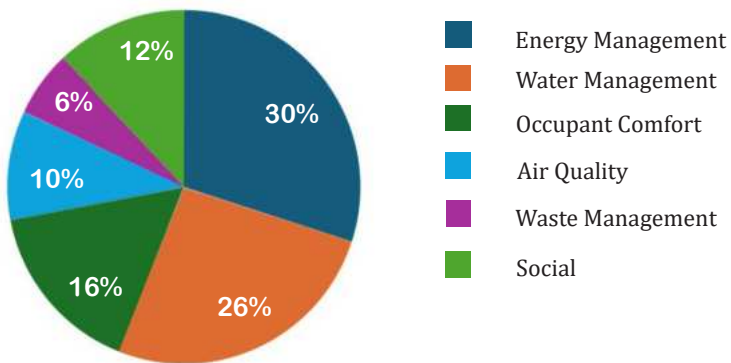


Figure 1: Percentage weightage of different sections of GRIHA for Existing School rating

The rating intends to imbibe the concept of resource conservation in students by means of play activities, there by converging towards the national targets.

A Collaboration for Sustainable Development

In the journey of climate action, GRIHA Council has been joined by various organizations/institutions and individual stakeholders sharing the intent of creating and promoting sustainable infrastructure across the country, that has created success stories that give hope for a better future.

With the same intent, GRIHA Council and NVS got into a Memorandum of Understanding in December 2023 during the 15th GRIHA Summit under which 379 NVS schools including 312 PM SHRI Schools across the country were given green building rating after evaluating them on the environmental parameters as specified in the GRIHA for Existing Schools rating.

NVS was set up as Jawahar Navodaya Vidyalaya in 1986 with the aim to bring out the best of rural talent. The Navodaya Vidyalaya Samiti works towards providing quality education to talented rural children and raising conscious and aware citizens in a residential school setup. PM SHRI School, a prestigious scheme sponsored by the GoI, intends to develop and ameliorate these NVS schools in ways that nurture students to build equitable and inclusive society and provide them with high standard education that make them an informed global citizen.

GRIHA Council was founded by TERI with support from MNRE to promote the development of green buildings and habitats in India through GRIHA rating. The process of promoting sustainable infrastructure involves capacity building by conducting awareness programmes for all stakeholders in the value chain, project specific workshops and site visits for handholding and on-site implementation of green building strategies.

The association between NVS and GRIHA came with the aim to equip the students with right knowledge not only to improve their curriculum skills, but also to raise responsible citizens who are sensitive towards the environment they are living in. This collaboration between NVS and GRIHA Council is one of the most crucial because here the stakeholders are the youngest citizens of the country having a blank slate of mind, all set to learn from their surroundings. Every piece of information provided to these budding minds lays the foundation of their and nation's future. The knowledge imparted in these residential schools does not stay limited to the students but is also taken back to their families sowing the seeds of knowledge and awareness at grass root levels.

As the whole world has come together in this climate action, the future of the planet lies with these young minds all around the globe who will be the workforce for 2070 net zero emission goal.

With the aim to meet this net zero emission goal through built environment and raising awareness on the subject, GRIHA Council and NVS schools joined hands to implement green building strategies in 379 schools in the first phase of the rating programme to achieve GRIHA Existing Schools rating and work towards attaining self-sufficiency.

The evaluation process for the rating involved handholding orientation workshops to guide the school teachers and students on the requirements and intent of the rating, along with site visits to assess the on-site implementation of green strategies.

The impact of the overall rating program extended from reduction in energy and water consumption, conversion of solid waste to resource, plantation of trees to improved liveability.

The Outcome

The outcome of the collaboration was encouraging as a significant improvement was observed (based on figures as shown in the book) in the sustainability quotient of the schools. This included:

1. Installation/additional installation of renewable energy systems in the schools to minimize their dependency on outside sources,
2. Installation of wastewater treatment and solid waste management systems,
3. Implementation of maintenance and housekeeping protocols for better and unhindered performance of the installed systems and premises,
4. Installation of energy efficient indoor and outdoor lighting along with efficient plumbing fixtures and
5. Improved liveability, occupant comfort and accessibility.

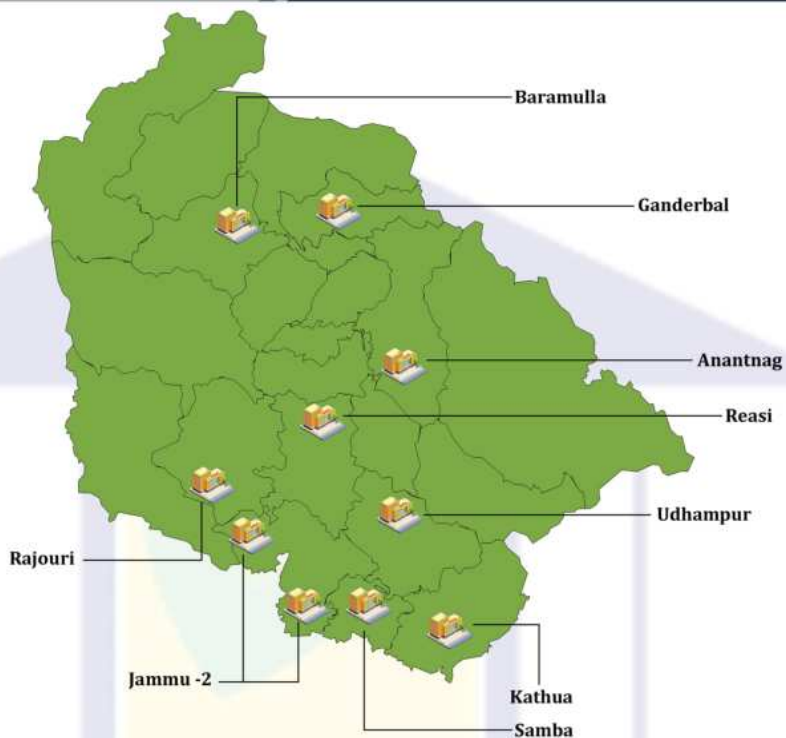
Through this rating program, students at NVS not only learnt the concepts of sustainability in theory but also gained practical experience in implementing sustainable practices and operating and maintaining green buildings effectively.

ABOUT THE BOOK

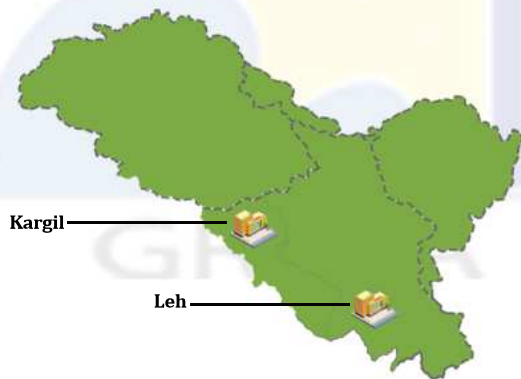
This book is a compilation of the impact of all 379 projects in terms of energy and water savings, renewable energy installation, quantum of waste diverted from landfill, rainwater harvested, tree plantation and subsequent CO₂e_q reductions. The schools have been categorized state wise, or in clusters of adjoining states. The book is supported with photographs of a few schools to show the implemented strategies.

“Mindful Impressions- Targeting 2070 Workforce” showcases the results of the determination and hard work of NVS teachers, administrative staff, non-administrative staff and the students who are our workforce for 2070 net zero emission goal.





TOTAL RATED SCHOOLS IN JAMMU & KASHMIR: 10



TOTAL RATED SCHOOLS IN LADAKH: 02



TOTAL STUDENTS

5,817

TOTAL TEACHING STAFF

398

TOTAL NON-TEACHING STAFF

246



70,146 Kl
Water Reduction
Achieved

2,598 Tons
Waste Diverted
from Landfill



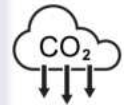
1,039 Tons
Organic Waste
Treated

175 kWp
Total Capacity of
Renewable Energy
Installed



562 Kl
Rainwater
Recharge

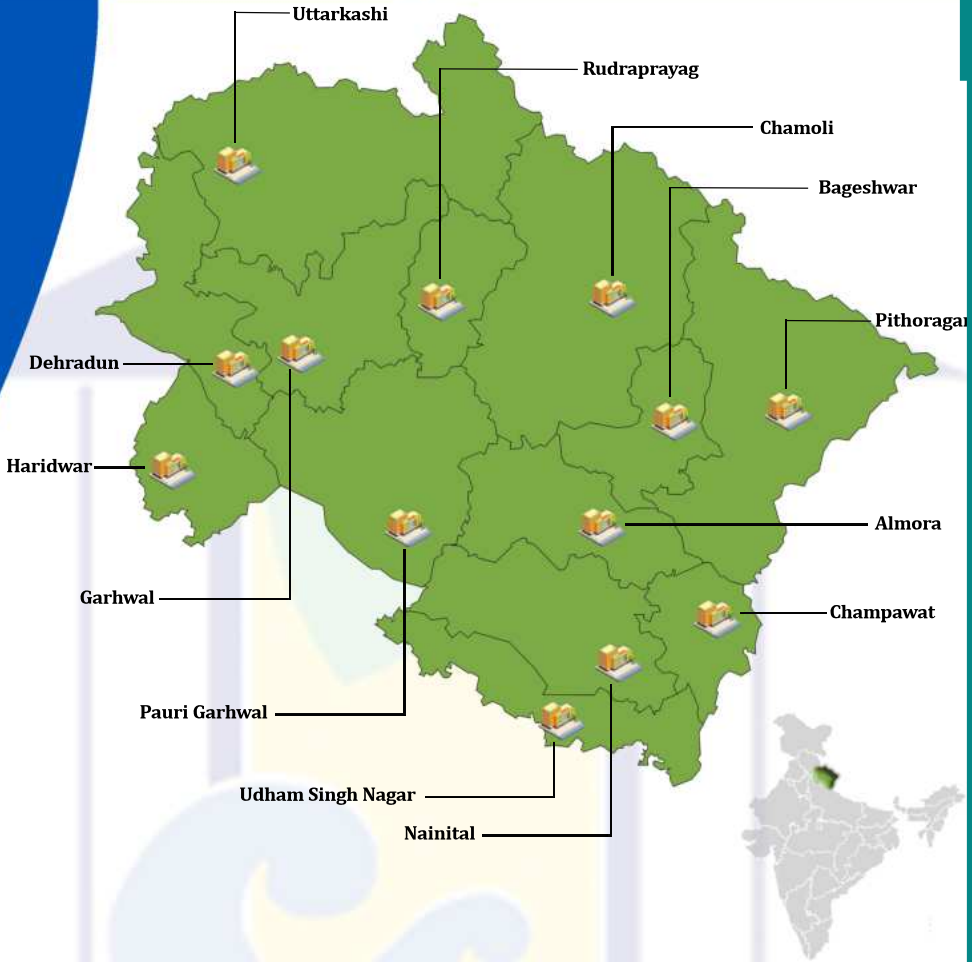
188 Tons
CO₂ eq Reduced



10,229
Trees Planted



UTTARAKHAND



TOTAL RATED SCHOOLS IN UTTARAKHAND: 13



TOTAL STUDENTS

5,851

TOTAL TEACHING STAFF

350

TOTAL NON-TEACHING STAFF

192



69,044 KI

Water Reduction
Achieved

2,557 Tons

Waste Diverted
from Landfill



1,023 Tons

Organic Waste
Treated



1,061 kWp

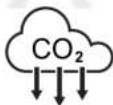
Total Capacity of
Renewable Energy
Installed



333 KI

Rainwater
Recharge

1,440 Tons
CO₂eq Reduced



40,047

Trees Planted

HIMACHAL PRADESH



TOTAL RATED SCHOOLS IN HIMACHAL PRADESH: 12



TOTAL STUDENTS

5,289

TOTAL TEACHING STAFF

299

TOTAL NON-TEACHING STAFF

202



62,532 Kl
Water Reduction
Achieved

2,316 Tons
Waste Diverted
from Landfill



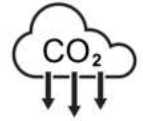
926 Tons
Organic Waste
Treated

211 kWp
Total Capacity of
Renewable Energy
Installed



547 Kl
Rainwater
Recharge

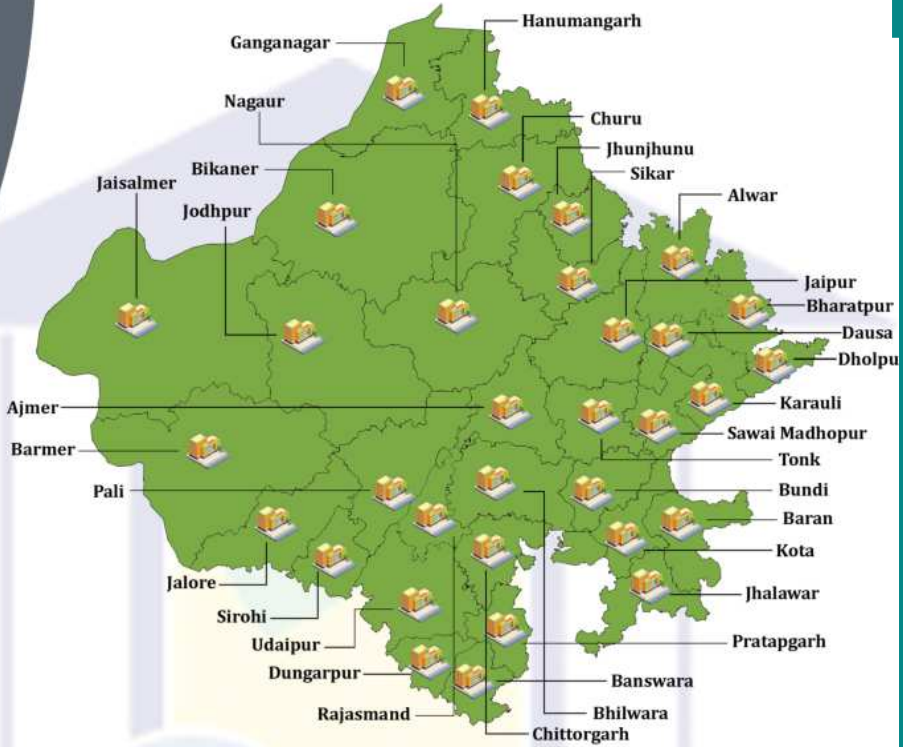
281 Tons
CO₂eq Reduced



55,167
Trees Planted



RAJASTHAN



TOTAL RATED SCHOOL IN RAJASTHAN: 33

GRIHA



TOTAL STUDENTS
18,843

TOTAL TEACHING STAFF
1,049

TOTAL NON-TEACHING STAFF
665



2,22,015 Kl
Water Reduction
Achieved

8,223 Tons
Waste Diverted
from Landfill



3,289 Tons
Organic Waste
Treated

2,021 kWp
Total Capacity of
Renewable Energy
Installed



10,416 Kl
Rainwater
Recharge

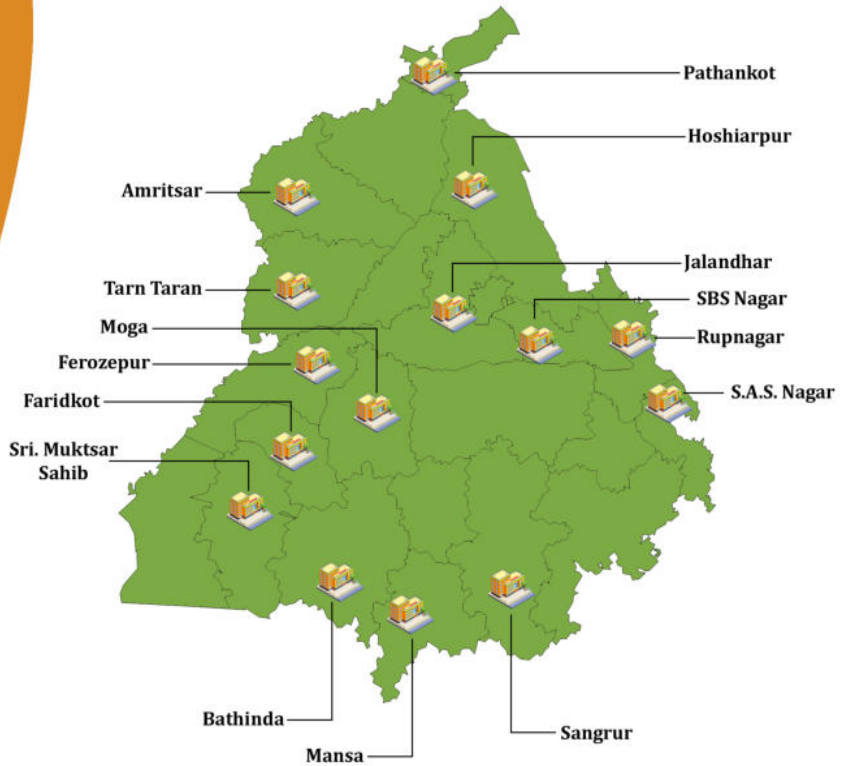
2,760 Tons
CO₂eq Reduced



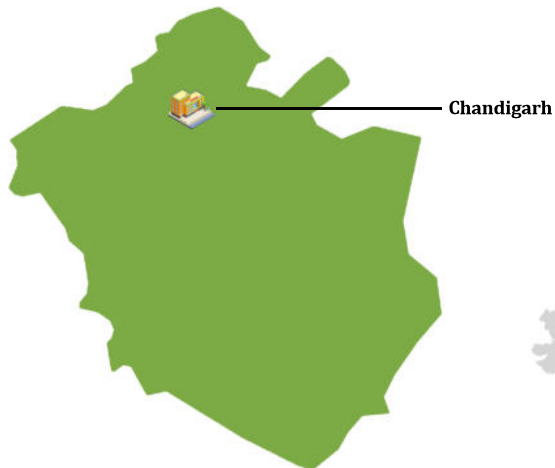
1,17,903
Trees Planted



PUNJAB & CHANDIGARH



TOTAL RATED SCHOOLS IN PUNJAB: 15



TOTAL RATED SCHOOL IN CHANDIGARH: 01

TOTAL STUDENTS
8,123

TOTAL TEACHING STAFF
461

TOTAL NON-TEACHING STAFF
314



96,098 KI
Water Reduction
Achieved

3,559 Tons
Waste Diverted
from Landfill



1,424 Tons
Organic Waste
Treated

191 kWp
Total Capacity of
Renewable Energy
Installed



483 KI
Rainwater
Recharge

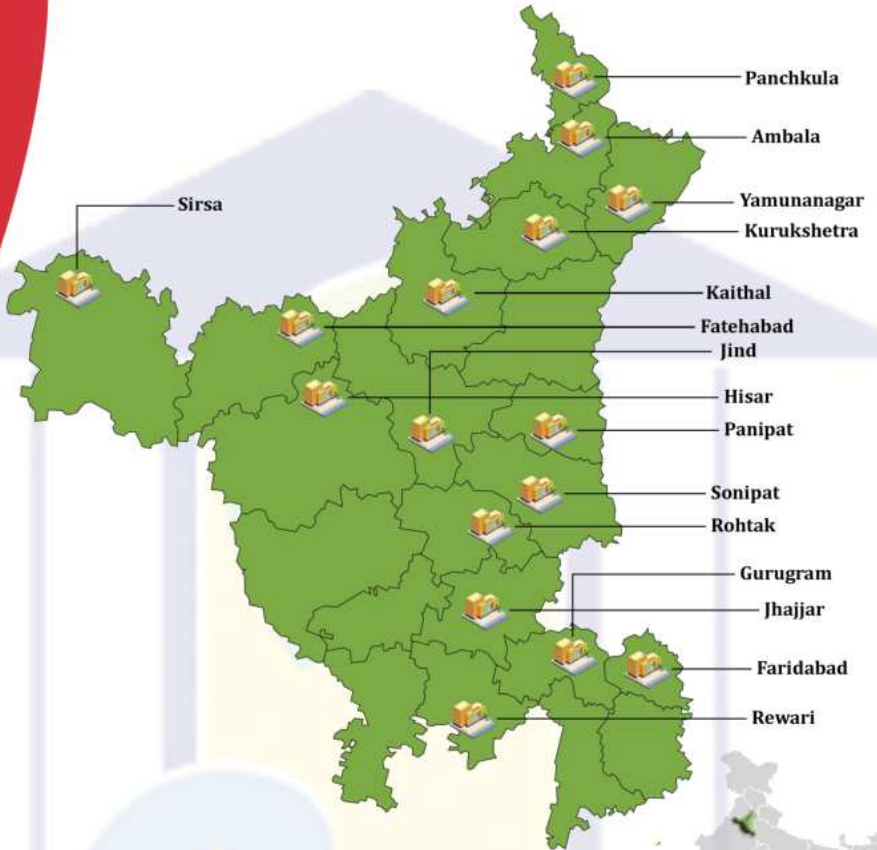
245 Tons
CO₂ eq Reduced



32,170
Trees Planted



HARYANA



TOTAL RATED SCHOOLS IN HARYANA: **16**



TOTAL STUDENTS

7,483

TOTAL TEACHING STAFF

408

TOTAL NON-TEACHING STAFF

335



88,840 KI

Water Reduction
Achieved

3,290 Tons

Waste Diverted
from Landfill



1,316 Tons

Organic Waste
Treated



833 kWp

Total Capacity of
Renewable Energy
Installed

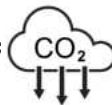


493 KI

Rainwater
Harvested



1,068 Tons
CO₂ eq Reduced

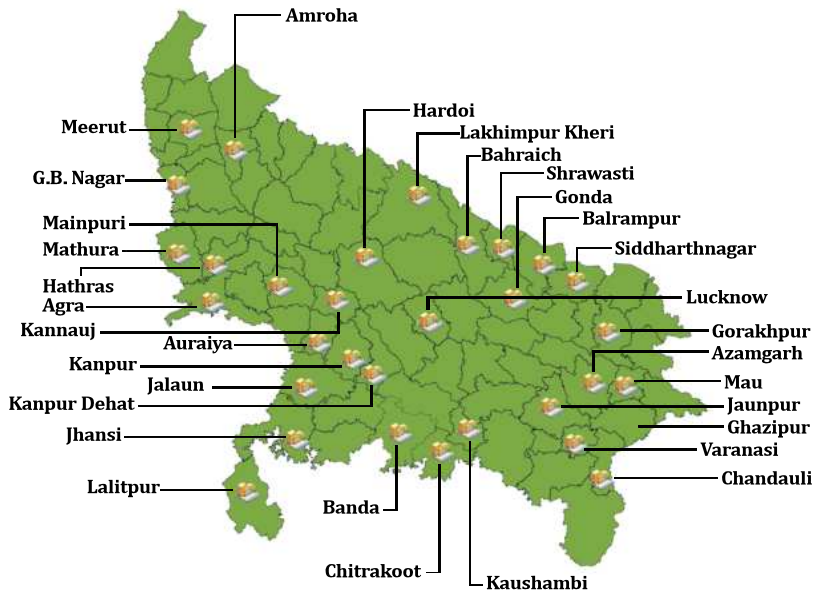


40,452

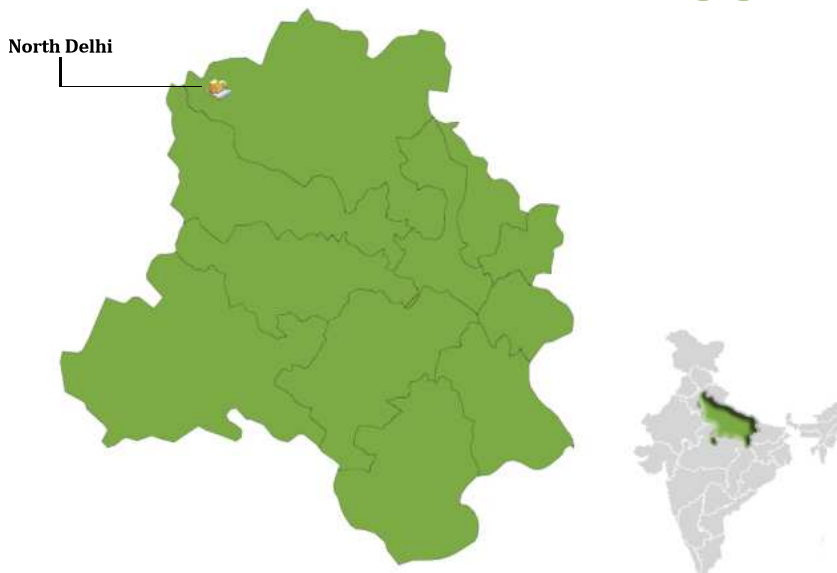
Trees Planted



UTTAR PRADESH & DELHI

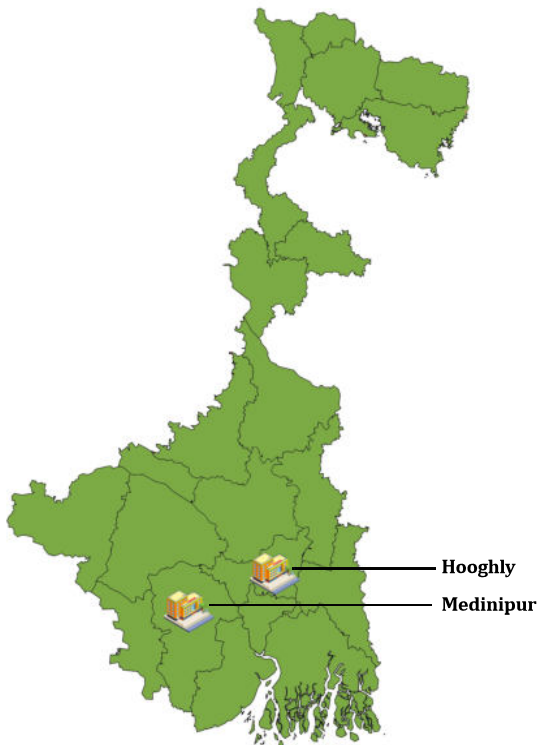


TOTAL RATED SCHOOLS IN UTTAR PRADESH: 33



TOTAL RATED SCHOOL IN DELHI: 01

WEST BENGAL & MEGHALAYA



TOTAL RATED SCHOOL IN WEST BENGAL: 02



TOTAL RATED SCHOOL IN MEGHALAYA: 01

TOTAL STUDENTS
1,553

TOTAL TEACHING STAFF
82

TOTAL NON-TEACHING STAFF
46



18,154 Kl
Water Reduction
Achieved

672 Tons
Waste Diverted
from Landfill



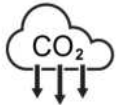
269 Tons
Organic Waste
Treated

214 kWp
Total Capacity of
Renewable Energy
Installed



252 Kl
Rainwater
Recharge

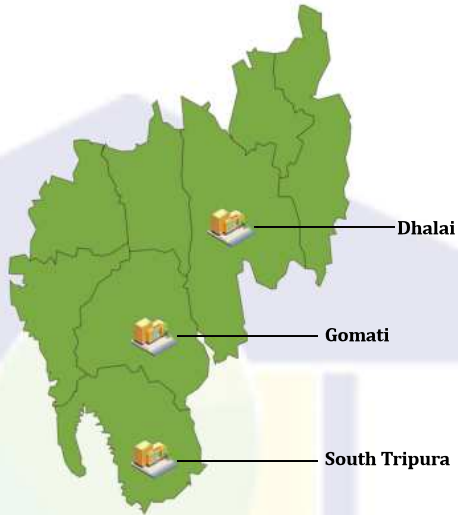
263 Tons
CO₂eq Reduced



3,146
Trees Planted



TRIPURA & MIZORAM



TOTAL RATED SCHOOLS IN TRIPURA: 03



TOTAL RATED SCHOOLS IN MIZORAM: 02



TOTAL STUDENTS
2,248

TOTAL TEACHING STAFF
79

TOTAL NON-TEACHING STAFF
51



24,948 KI
Water Reduction
Achieved



924 Tons
Waste Diverted
from Landfill



370 Tons
Organic Waste
Treated

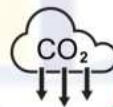
Renewable Energy has
not been installed



561 KI
Rainwater
Recharge



No Carbon
has been reduced



6,375
Trees Planted





1,70,521 Kl

Water Reduction
Achieved

6,316 Tons

Waste Diverted
from Landfill



2,526 Tons
Organic Waste
Treated



2,279 kWp

Total Capacity of
Renewable Energy
Installed



1,030 Kl
Rainwater
Recharge



3,037 Tons
CO₂eq Reduced



41,322

Trees Planted

BIHAR



TOTAL RATED SCHOOLS IN BIHAR: **28**



TOTAL STUDENTS

12,284

TOTAL TEACHING STAFF

622

TOTAL NON-TEACHING STAFF

458



1,44,331 KI

Water Reduction
Achieved

5,346 Tons

Waste Diverted
from Landfill



2,138 Tons

Organic Waste
Treated



135 kWp

Total Capacity of
Renewable Energy
Installed



1,593 KI

Rainwater
Recharge



169 Tons
CO₂ eq Reduced

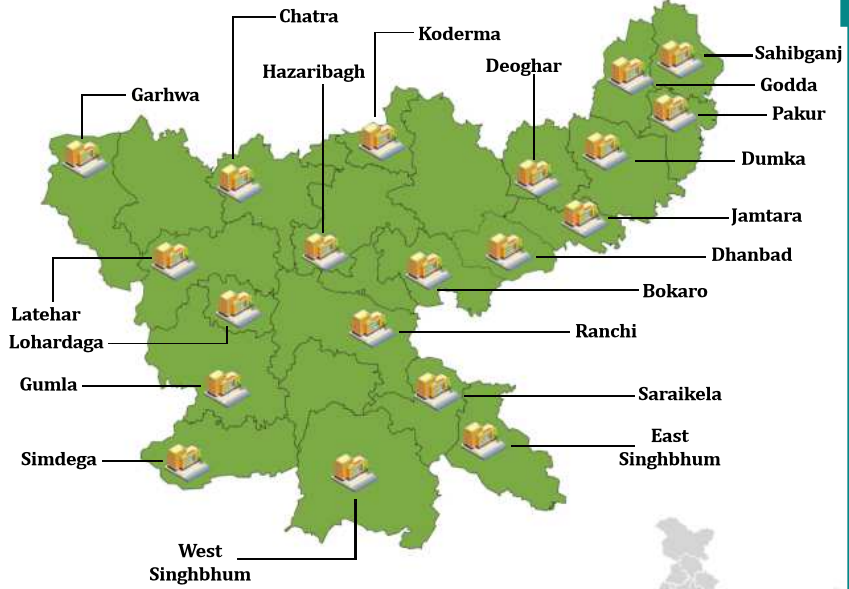


25,881

Trees Planted



JHARKHAND



TOTAL RATED SCHOOLS IN JHARKHAND: **20**



TOTAL STUDENTS
9,772

TOTAL TEACHING STAFF
643

TOTAL NON-TEACHING STAFF
468



1,17,536 KI
Water Reduction
Achieved

4,353 Tons
Waste Diverted
from Landfill



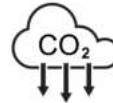
1,741 Tons
Organic Waste
Treated

813 kWp
Total Capacity of
Renewable Energy
Installed



1,364 KI
Rainwater
Recharge

1,073 Tons
CO₂eq Reduced



25,791
Trees Planted



SIKKIM AND NAGALAND

North Sikkim



West Sikkim



South Sikkim



TOTAL RATED SCHOOLS IN SIKKIM: 03

Wokha



Mon



Teusang



TOTAL RATED SCHOOLS IN NAGALAND: 03

TOTAL STUDENTS
2,027

TOTAL TEACHING STAFF
107

TOTAL NON-TEACHING STAFF
91



24,429 Kl
Water Reduction
Achieved



362 Tons
Organic Waste
Treated



247 Kl
Rainwater
Recharge



6,325
Trees Planted

905 Tons
Waste Diverted
from Landfill



53 kWp
Total Capacity of
Renewable Energy
Installed



54 Tons
CO₂ eq Reduced



ARUNACHAL PRADESH & ASSAM



TOTAL RATED SCHOOLS IN ARUNACHAL PRADESH: 05



TOTAL RATED SCHOOL IN ASSAM: 01

TOTAL STUDENTS

2,978

TOTAL TEACHING STAFF

164

TOTAL NON-TEACHING STAFF

107



35,089^{Kl}

Water Reduction
Achieved

1,300 Tons
Waste Diverted
from Landfill



520 Tons
Organic Waste
Treated

09 kWp

Total Capacity of
Renewable Energy
Installed



2143^{Kl}
Rainwater
Recharge



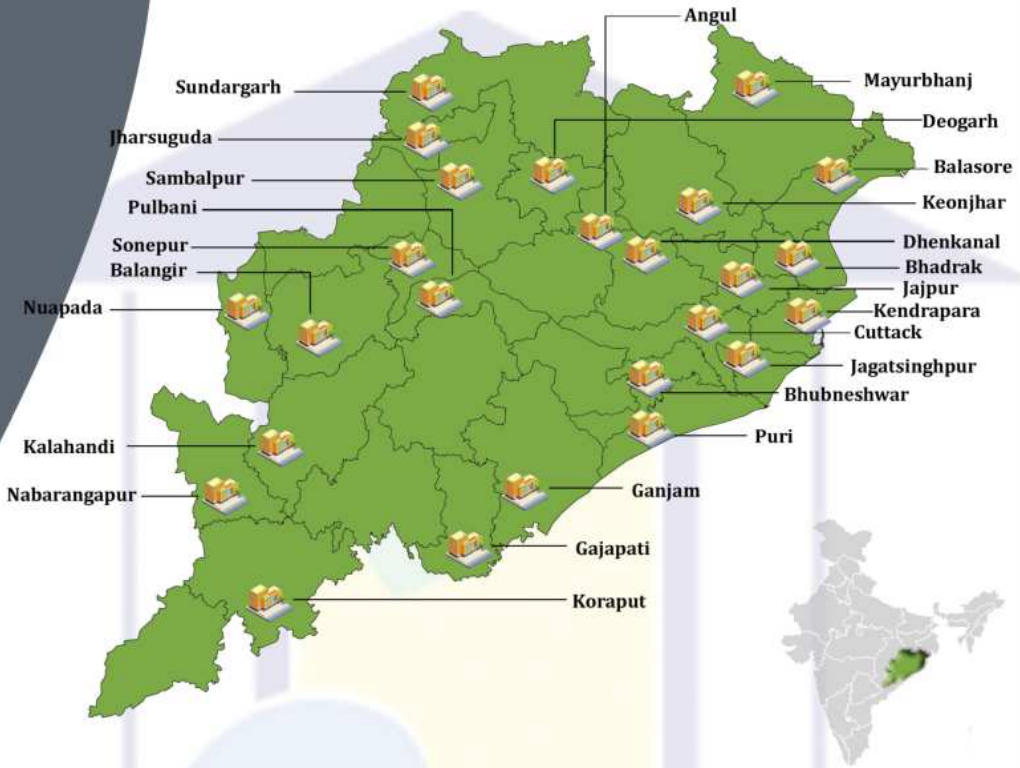
40 Tons
CO₂eq Reduced



3,472
Trees Planted



ODISHA



TOTAL RATED SCHOOLS IN ODISHA: **25**



TOTAL STUDENTS
7,518

TOTAL TEACHING STAFF
335

TOTAL NON-TEACHING STAFF
183



1,24,750 Kl
Water Reduction
Achieved

4,620 Tons
Waste Diverted
from Landfill



1,848 Tons
Organic Waste
Treated

23 kWp
Total Capacity of
Renewable Energy
Installed



1,415 Kl
Rainwater
Recharge

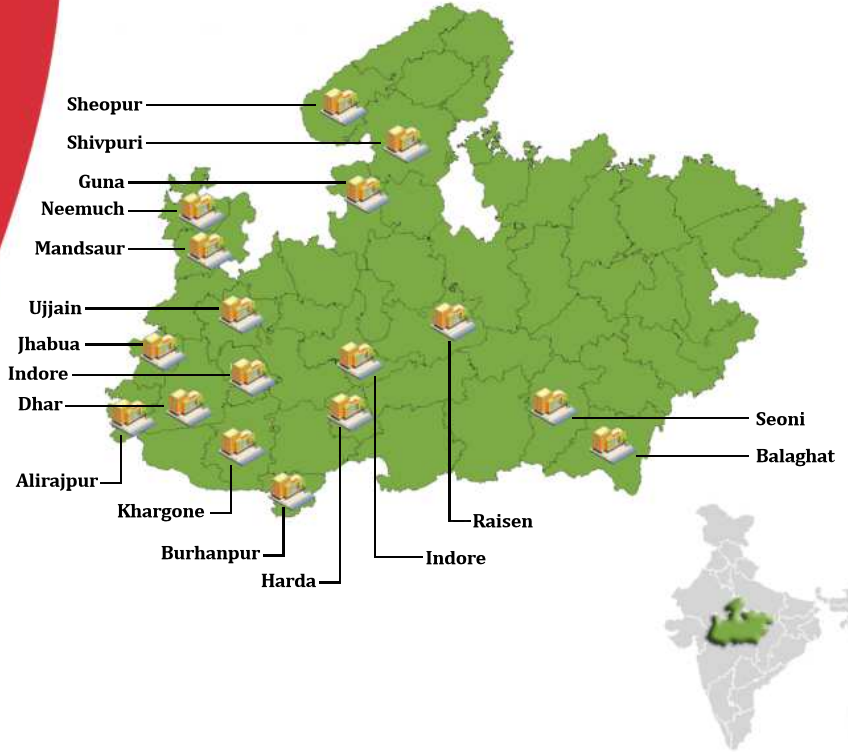
6 Tons
CO₂eq Reduced



34,131
Trees Planted



MADHYA PRADESH



TOTAL RATED SCHOOLS IN MADHYA PRADESH: **17**



TOTAL STUDENTS
9,598

TOTAL TEACHING STAFF
489

TOTAL NON-TEACHING STAFF
359



33,328 KI
Water Reduction
Achieved

1,234 Tons
Waste Diverted
from Landfill



494 Tons
Organic Waste
Treated



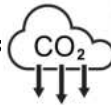
1,143 kWp
Total Capacity of
Renewable Energy
Installed



1,001 KI
Rainwater
Harvested



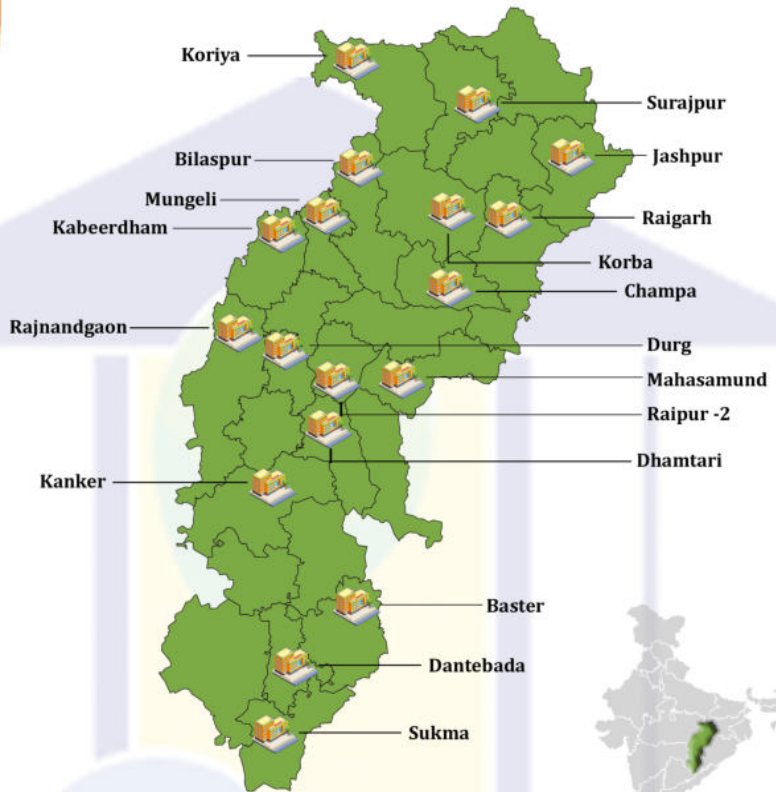
471 Tons
CO₂ eq Reduced



1,30,279
Trees Planted



CHATTISGARH



TOTAL RATED SCHOOLS IN CHATTISGARH: 18



TOTAL STUDENTS

6,639

TOTAL TEACHING STAFF

353

TOTAL NON-TEACHING STAFF

244



78,148 Kl
Water Reduction
Achieved

2,894 Tons
Waste Diverted
from Landfill



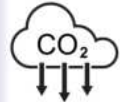
1,158 Tons
Organic Waste
Treated

432 kWp
Total Capacity of
Renewable Energy
Installed



1,404 Kl
Rainwater
Recharge

561 Tons
CO₂eq Reduced



28,101
Trees Planted



GUJARAT AND DAMAN & DIU



TOTAL RATED SCHOOLS IN GUJARAT AND DAMAN & DIU: 25



TOTAL STUDENTS
8,173

TOTAL TEACHING STAFF
427

TOTAL NON-TEACHING STAFF
220



1,34,794 KI
Water Reduction
Achieved

3,157 Tons
Waste Diverted
from Landfill



1,997 Tons
Organic Waste
Treated

1,365 kWp
Total Capacity of
Renewable Energy
Installed



1,815 KI
Rainwater
Recharge

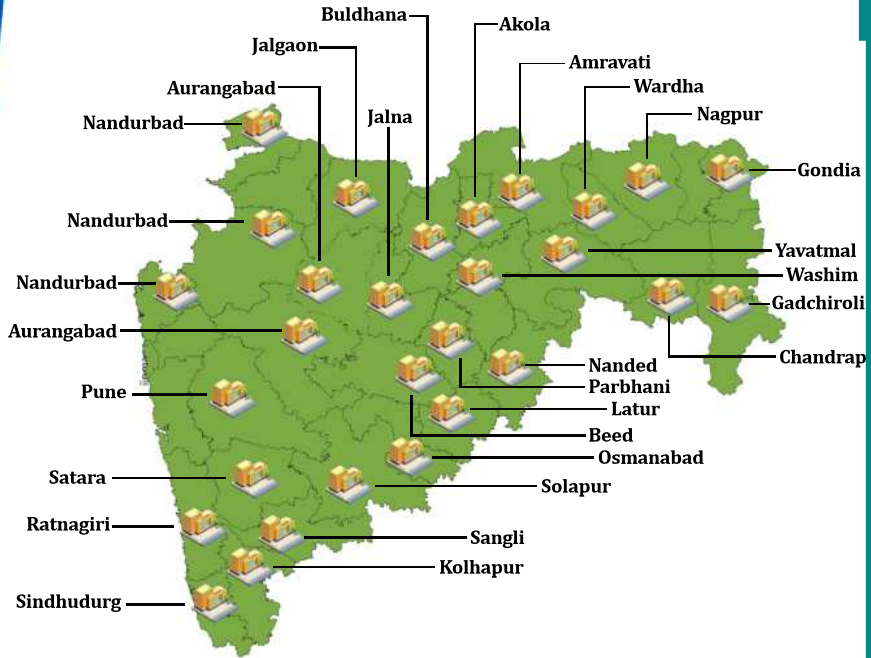
1,857 Tons
CO₂ eq Reduced



22,705
Trees Planted



MAHARASHTRA & GOA



TOTAL RATED SCHOOLS IN MAHARASHTRA: **29**



TOTAL RATED SCHOOL IN GOA: **01**

TOTAL STUDENTS
7,575

TOTAL TEACHING STAFF
423

TOTAL NON-TEACHING STAFF
377



1,66,406 KI
Water Reduction
Achieved

6,163 Tons
Waste Diverted
from Landfill



2,465 Tons
Organic Waste
Treated



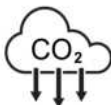
2,844 kWp
Total Capacity of
Renewable Energy
Installed



1,553 KI
Rainwater
Harvested



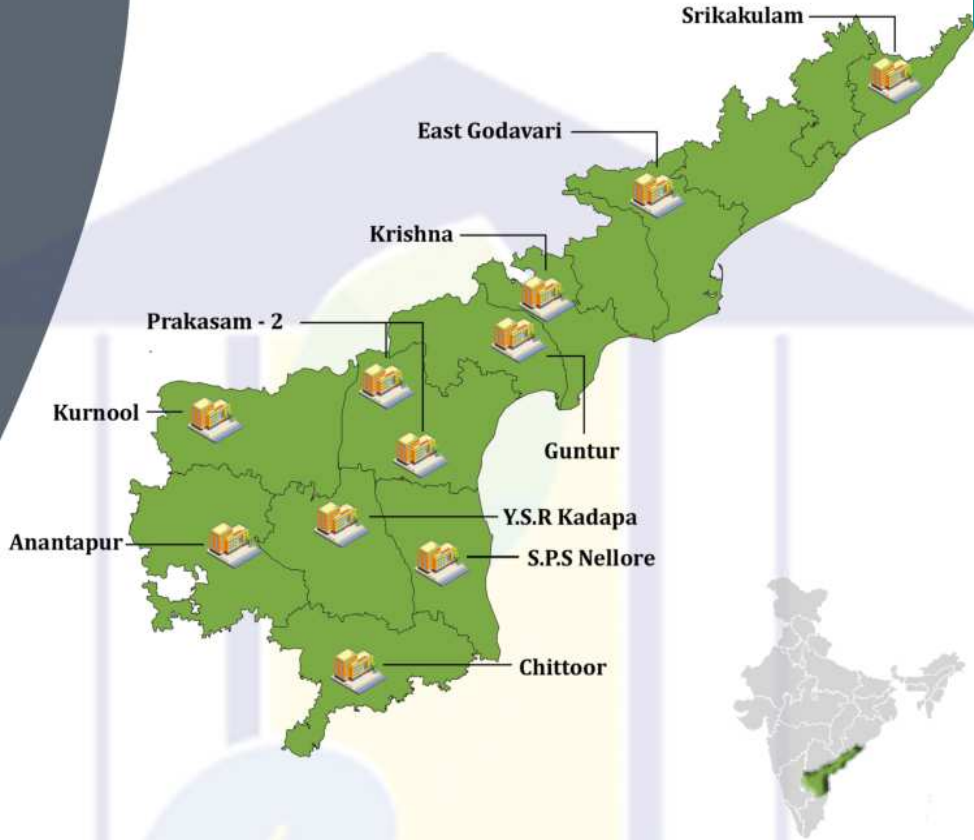
3,883 Tons
CO₂eq Reduced



64,365
Trees Planted



ANDHRA PRADESH



TOTAL RATED SCHOOLS IN ANDHRA PRADESH: 11



TOTAL STUDENTS
7,483

TOTAL TEACHING STAFF
408

TOTAL NON-TEACHING STAFF
335



62,618 KI
Water Reduction
Achieved

928 Tons
Waste Diverted
from Landfill



371 Tons
Organic Waste
Treated

703 kWp
Total Capacity of
Renewable Energy
Installed



276 KI
Rainwater
Recharge

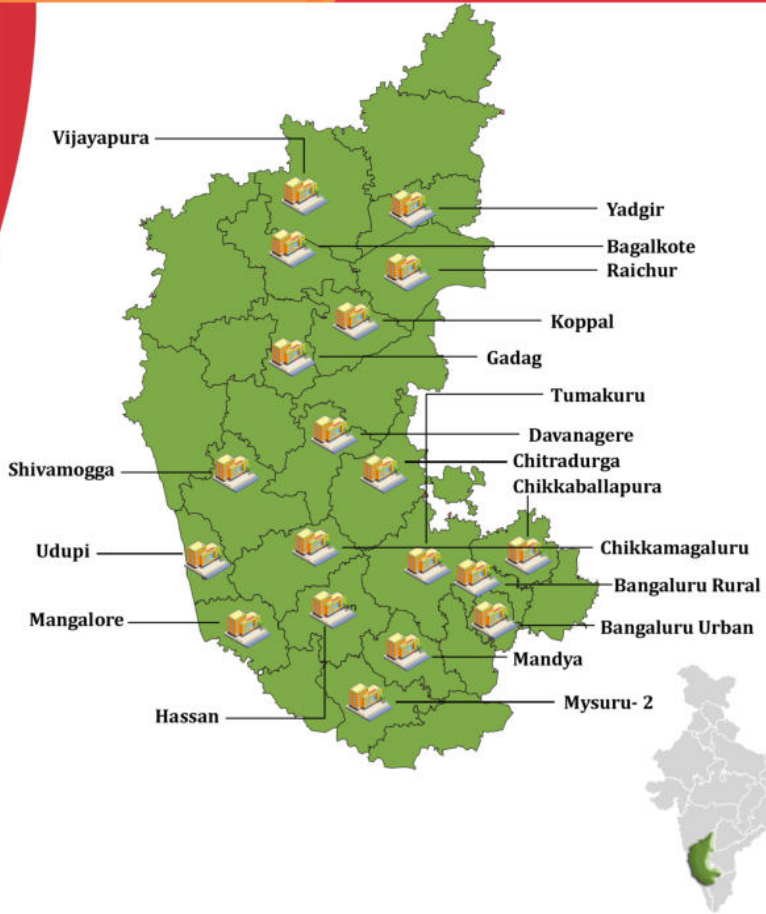
1,032 Tons
CO₂eq Reduced



5,774
Trees Planted



KARNATAKA



TOTAL RATED SCHOOL IN KARNATAKA: 20



TOTAL STUDENTS

8,072

TOTAL TEACHING STAFF

413

TOTAL NON-TEACHING STAFF

408



1,03,407^{Kl}

Water Reduction
Achieved

3,848^{Tons}

Waste Diverted
from Landfill



1,539^{Tons}

Organic Waste
Treated



1,029^{kWp}

Total Capacity of
Renewable Energy
Installed

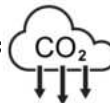


668^{Kl}

Rainwater
Recharge



1,294^{Tons}
CO₂eq Reduced



23,135

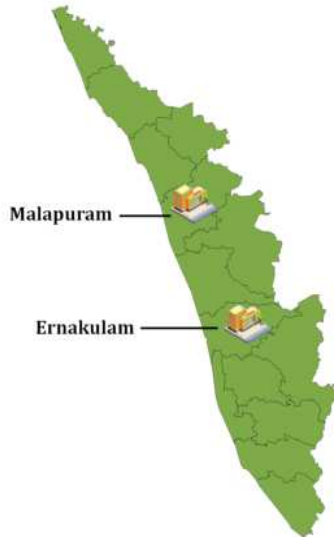
Trees Planted



TELANGANA & KERALA



TOTAL RATED SCHOOL IN TELANGANA: 01



TOTAL RATED SCHOOLS IN KERALA: 02

TOTAL STUDENTS
2,044

TOTAL TEACHING STAFF
121

TOTAL NON-TEACHING STAFF
94



22,074 Kl
Water Reduction
Achieved



327 Tons
Organic Waste
Treated



258 Kl
Rainwater
Recharge



1,936
Trees Planted

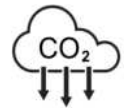
817 Tons
Waste Diverted
from Landfill



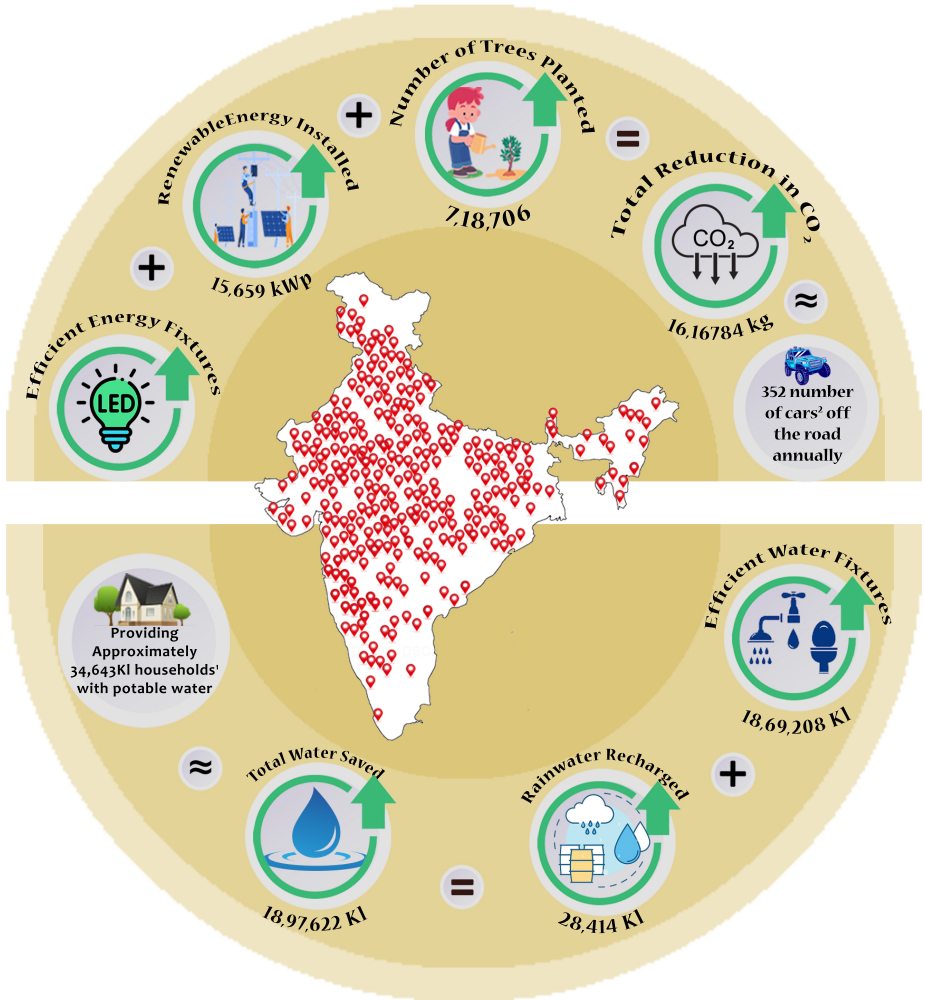
125 kWp
Total Capacity of
Renewable Energy
Installed



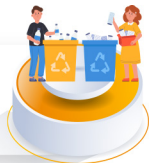
148 Tons
CO₂eq Reduced



SUMMARY



65,129 Tons
Waste diverted
from landfill



27,142 Tons
Organic waste
treated on site



¹Family of 4
²Light Motorised Vehicles



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