Green Schools Programme cordially invites you to

WASTE TRANSFORMERS 2020-21

Forum of schools that segregate
Dr. Rajendra Prasad Kendriya Vidyalaya
President’s Estate, New Delhi

ARTIFICIAL INTELLIGENCE BASED PROGRAMMING FOR WASTE SEGREGATION & PROMOTION OF CIRCULAR ECONOMY

Year of joining GSP: 2019

SCHOOL PROFILE

School category: DAY SCHOLAR
School type: MIXED/CO-EDUCATION

Lowest level - highest level:
1 - 12

Population: 1032
(including students, teaching and non-teaching staff)
Why was the action plan needed?

1. Wet/ biodegradable waste (270 kg/month) is sent to the President’s Estate, but we would like students to understand the resource recovery process

2. Waste was not being used as a resource

3. Waste need to be reduced

4. Paper waste (66 kg/month) is significant
Action Plan

1. Development of **image processing programming** through AI for students to understand types of waste

2. **Using AI to calculate** the most common fraction of **waste generated** in school, e.g., leaves, paper and organic matter

3. **Pilot resource recovery**: Flowers will be treated and converted into new items, such as soaps, candles, etc.

4. Use of **touchless dustbins** (for COVID generated waste) to avoid contact

5. Progress from two dustbins to **three for waste segregation**:
   - Wet / biodegradable waste bin
   - Paper waste/ used pens, pencils and other waste bin
   - Sanitary waste bin in girls’ washrooms
Indicators to assess action plan

1. Improvement in segregation of waste

2. 100 percent resource recovery for flowers and paper

3. Sensitising students with the help of AI

Basket, paper and candle made from fallen flowers