



Green Schools Programme

cordially invites you to



WASTE TRONSFORMERS 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



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

