







(i)Strategic planning and increased organization transparency and responsibility :In order to achieve the "Zero waste institute" the institute categorized the solid waste management in two phases. In first phase, after solid waste auditing, the wet waste is composited and the organic compost used in floriculture and landscaping operations and the institute becomes organic and also successful in achieving the carbon footprint benefits.

(i)Skill Up-gradation: In order to create mass awareness ,the students are trained in the solid waste management (SWM) field, For this the institute is organizing workshops, colloquium, cleanathon to inculcate the field knowledge of the topic, Solid Waste Management(SWM).

(ii) Attitude Shift: The city is observing attitude shift towards solid waste management in society ,as the at source segregation started at household level in Chandigarh which prevents composite culture in landfills and composting plant.

(iii)People/Society benefits: In order to create mass awareness about the negative effects of solid waste management, all education institutes of Chandigarh and Panchkula , in which fifty thousand stakeholders from all streams (students, faculty, gardeners, workers) participated and create mass awareness and results in attitude shift towards solid waste management in society, as the at source segregation started at household level to prevent composite culture in landfills ,hence mitigate the release of GHGs(Greenhouse Gases).

Scalability and Replication Potential • The major success of any projects fall in its reproducibility and scalability and presently, when the project extended for the society, its success is assessed at different sites and area is assessed. In this parameter, project is replicated at two institutes: (i)Judicial Academy, Sector-43, Chandigarh; (ii)Post Graduate Government College, Sector-1, Panchkula.					
• The success in reproducibility and scalability promotes me to prepare blue print to technology so easily replicated globally and carbon mitigation and reducing carbon foot prints by 88% and 12% carbon dioxide produced is biogenic and used by plants in respiration and not accounted for the carbon foot print inventory, so plays no role in global warming.					
 Spreading Bene (a) increase its of 0.2 TPD to 2T (b)Biogas generating electronic 	efits: The next spreadin capacity of three plant PD ation, as we have alrea stricity form Biogas.	ng benefits are to: Is from (i) 0.5TPD to 5 TI ady standardize the cark	PD (Tonnes per day pon/Nitrogen ratio (r) (ii) 0.4TPD to 4 25:1) and after	TPD(iii)
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hallenges faced during the Composting process

Solid waste auditing :The first and foremost if the solid waste auditing, which plays an important role in devising the composting strategy i.e Layout designing ,sizing and capacity.
 Segregation: The segregation at source present major challenge, as composite culture is dumped in landfills which results in

green house gases(GHGs) emission .It also hampers the composting process.

3. House hold composting :The major obstacle stands in way of household composting is the misconception that the composting is smelly and attract flies and maggots.

4. The fourth challenge is the financial constraint and the financial constraint was addressed by starting lay out of low cost windrow composting and do manual turning on every 6th and 11th day

5. The next challenge is the designing of the windrow plant keeping in minds its economical aspect and land saving.

6. The last challenge we faced is the standardizing the compost monitoring the Physicochemical parameters (Temperature, pH, Moisture content, Electrical conductivity and C/N ratio) to make compost feasible to floriculture and Landscaping operation.













