ABSTRACT
This paper entitled “Social Entrepreneurship in Waste Management with Special Reference to Waste Management System of Agra City- A proposed Action Plan” tries to find out the most hitting problem of increasing waste and its management. Social entrepreneurship is structured with product, services, customers markets & expenses & revenue the only but significant change is not profit maximisation but social benefit. The holistic business approach is based on the three pillars - People Planet & Profit. It is also emphasizing on the problems of existing inefficient solid waste management system for which, solution is Social Entrepreneurship and contribution by students of schools and universities. Apart from this, research also suggests one action plan for the city Agra which is an industrial city & generating 800 metric tonnes waste. We can also provide a road map to schools and colleges who want to take a small step towards green – theoretically and practically. In this way, we can empower students to create real solutions by “Youth Civic Engagement” for the civic problems of today.

Keywords: Waste Management, Social Entrepreneurship, Social Benefit

INTRODUCTION
The city of Taj, Petha Nagari, International Shoe Hub, these are the different names of our own city Agra which is generating 800 metric tonnes waste which includes commercial waste mainly of Petha & Shoe industry other than domestic waste, out of which Nagar Nigam collects only half rest, is scattered on the streets only. It is very astonishing that Nagar Nigam has no proper arrangement for disposal system for the waste it collects.

Taj Nagari, which has a significant place on the international tourism map, has no arrangement for waste disposal, due to which Nagar Nigam has no other way but collecting and dumping the waste only. Previously, it was collected in Nagala Rambal near Kalindi Vihar next to Rambagh situated on NH2. For so many years Nagar Nigam was dumping waste of the whole city here only. Due to which so high hills of garbage were built up that we could see Taj Mahal from the top of it. But when infection spread out in nearby area of this site, the government stopped dumping with in no time and searched out a new dumping ground Kuberpur which is creating danger for river Yamuna also. Presently there is no appropriate waste management system for the city which can efficiently manage this huge waste and can make this city a place to live. By the way of this project our team is trying to find out workable solution through social entrepreneurship. So we can easily see that Nagar Nigam is not able to solve this problem. if we go for profit maximising organisations & non-profit organizations, they have entirely different objectives. One focuses on profit & economic benefits and others focuses on benefits of society. Thus social entrepreneurship can be the best solution which solves the social problem with economic benefits of organization, promoting waste recycling activities through decentralised composting technology using public-private-community partnerships model. Social entrepreneurship in waste management would be an opportunity for the corporate world also for fulfilling the mandatory CSR conditions & extended producers responsibility in better way.

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OBJECTIVES
1. To solve the problem of improper waste management in Agra city by social entrepreneurship
2. To create a source of earning for society specially women through social entrepreneurship and create a better sustainable environment to live.
3. To make aware people to reduce, reuse and recycle waste.

METHODOLOGY
For zero waste management, there is need to change the behaviour of individuals because Human behaviour is the crux of most environmental problems. Environment protection is both a management objective and a challenge for each and every one of us, Therefore Basic points to work with are:
- Behavioural change
- Affordable solutions
- Measurable impact

For which the methodology will be
- Reinvention (through design, behaviour change)
- Reuse functional waste material
- To recover all the resources from the waste stream

We can make system to make sustainable living a part of daily lives and encourage students to innovate solution for real life problems.

MAKING GREEN A HABIT

PLAN OF WORK
We have chosen to become immune to the mess around us, but Social entrepreneurship for solid waste management through students will sure become a solution for it, we can devise on and to end solution to urban waste management that will benefit all stakeholders involved. This way we can make the system efficient, decentralised & even profitable.
ACTION PLAN FOR INDUSTRIAL UNITS
We can start from surrounding areas to the whole city,
1. Waste audit can be conducted of a unit to figure out-
   a. Quantity of waste being generated
   b. Categories of Waste (Wet/Dry)
   c. Sources
   d. Pattern of Generation
   e. Segregation
   f. Existing Internal Collection System & Its Quality
   g. Feasibility Space
   h. Storage & Disposal System
2. On site management of waste (wherever it is possible)
   a. On-site segregation
   b. On-site biogas and composting facilities for wet waste
   c. Transportation of non-bio degradable waste directly to recycling units
The above process will leave only a small Amount of dry waste which can be transported to dumping grounds. This way we can get rid by expensive & inefficient existing system which is also hazardous for waste pickers at these sites.

PLAN FOR DOMESTIC ORGANIC WASTE
Organic wastes will be collected by community based waste collection systems where household dwellers pay to have their waste collected. Then collection vans will bring organic waste to the composting plant. the resources flow in business model where, household waste will be collected by community collection systems, collected waste will be transported to composting plant, organic wastes will be sorted out and processed for composting. Finally, the composted organic fertilizers will be sent for retail to the local farmer and shops.

COST BENEFIT ANALYSIS
Initial investment may be US $14,300 (approx.) for a 3 tons/day capacity plant. Annual financial savings may be US $7218 (approx.) for a 3 tons/day capacity plant (both from plants and carbon credits). We will arrange for fertilizer companies to purchase and market the compost-based fertilizer. Table 1 shows the comparative cost analysis of different composting plants.

<table>
<thead>
<tr>
<th>Items</th>
<th>3 ton/day</th>
<th>10 ton/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land required/ plant (square-meter)</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>Fixed cost/plant (Tk)</td>
<td>1008000</td>
<td>2880000</td>
</tr>
<tr>
<td>Operating cost/plant (Tk)</td>
<td>300000</td>
<td>1000000</td>
</tr>
<tr>
<td>Total labour/plant</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Compost produces (daily)</td>
<td>750 kg</td>
<td>2500 kg</td>
</tr>
<tr>
<td>Expected revenue from sale of compost (Tk)</td>
<td>600000</td>
<td>2000000</td>
</tr>
<tr>
<td>Expected revenue from sale of CERs/Year</td>
<td>205312</td>
<td>684375</td>
</tr>
<tr>
<td>Profit with CER/carbon credit per years</td>
<td>505312</td>
<td>1684375</td>
</tr>
<tr>
<td>Profit per year without CER/Carbon credits</td>
<td>300000</td>
<td>1000000</td>
</tr>
<tr>
<td>Payback period (with carbon credits)</td>
<td>2 years</td>
<td>1.71 years</td>
</tr>
<tr>
<td>Payback period (without carbon credits)</td>
<td>3.36 years</td>
<td>2.88 years</td>
</tr>
</tbody>
</table>

Source: Adapted From Dhaka Waste Concern, Bangladesh
*CER means certified emission reduction (which is reduction of methane gas by composting). The methane gas reduced by composting can be sold at a price of S$6/ton using CDM mechanism) I US $ = Tk. 70/-. 

CONTRIBUTION TO THE SOCIETY
So basically, we can provide a platform to engage and educate students (Institutions, Schools & Universities) for taking every day green actions through partnerships with Nagar Nigam, corporate and NGO’s. It empowers consumers to make a collective impact on the environment by increasing recycling, reducing energy consumption, waste generation & water usage and assisting institutions to act sustainably. By consulting, we can provide a road map for the whole society to take initial steps to Go Green. By implementation of this project we will be able to produce compost in a good quantity; apart from this it will reduce CO2 emissions successfully. Each year directly it will create jobs for down trodden group of society & better life for them specially women & waste pickers.

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