SOCIAL WASTE MANAGEMENT CENTER IN BATTAMBANG CITY

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(1) Organization COMPED

- NGO, Registered at MOI in 2003
- Involve in solid waste management since 2001
- Social Waste Management Center in Battambang (social and organic waste recycling center (composting and biogas plants) .
- 10 t (22m³) organic market waste can be utilized every day.
(2) Waste Management Situation in Battambang City

- Responsible by the city authority (sub-degree 36 on solid waste management),
- Collection, transport waste by private company CINTRI and market association,
- Domestic waste generation: 87.13 ton/day; no separation at source,
- 65 -70 % is organic waste,
- Dispose site: only 1ha (currently) for 70 t/day (CINTRI 2011).

<table>
<thead>
<tr>
<th>Domestic Waste</th>
<th>Waste discharge</th>
<th>Compost able waste</th>
<th>Recyclable waste</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Household Waste</td>
<td>0.60 Kg/Person/day</td>
<td>75%</td>
<td>4%</td>
<td>181.50 kg/m³</td>
</tr>
<tr>
<td>Restaurant</td>
<td>22 Kg/Day</td>
<td>78%</td>
<td>8%</td>
<td>335.13 kg/m³</td>
</tr>
<tr>
<td>Hotel/Guesthouses</td>
<td>10 Kg/Day</td>
<td>43%</td>
<td>12%</td>
<td>100.28 kg/m³</td>
</tr>
<tr>
<td>Market waste</td>
<td>25000* Kg/Day</td>
<td>86.5%</td>
<td>9.5%</td>
<td>219 kg/m³</td>
</tr>
</tbody>
</table>

* biggest market “Psa Boeung Chhouk”
Reference: Result waste analysis, October 2011. COMPED, Waste Concern and UNESCAP
The way how to extent landfill life and reduce waste amount on dump site (currently)

Open Burning !!!
One way of many how to extent landfill life and reduce waste amount (environmental friendly) = COMPOSTING

SAB – Social Center Waste Management
8000 m² (city land), next to dumpsite, with the current situation able to process organic market only waste 10 t/day (22m³/day).
Why Centralized Composting

- composting site must be direct on dumpsite, cause of rejected waste.

- Nobody (stakeholders) feels responsible for the delivery organic waste to the compost facility.

- Decentralized composting not acceptance by residents. Lack of willing and participant.

- No decentralized composting policy,

- Providing land (not always), but

- No disposal fee.
Why open windrow turned composting

- 100% Sorting out rejected waste is not possible.
- Sorting out rejected waste is still required.
- Sorting out of small rejected waste like stone plastic and glasses is very important.
Compost Production

N nitrogen  > 1.32%
P phosphorus  > 1.72%
K potassium  > 2.24%
pH value of 7.0-7.5.
THANK YOU FOR YOUR KIND ATTENTION