



**เทศบาลตำบลสันทกแพง**  
Sankamphaeng Municipality

**สินค้าแพงแดน**  
**หัตถกรรม**  
ทิวทัศน์ชน เลืองล้อคน  
เขียดคามาโค ช้างขม  
นม หัตถกรรม




### General Information

**Location** East of the CM-city center

**Area** Approximately 22.714 km<sup>2</sup>

**Administrative** Divided into 3 Tambon 23 villages as follows:  
 T.Sankamphaeng 13 villages  
 T.Changhang 7 villages  
 T.Saimo 3 villages

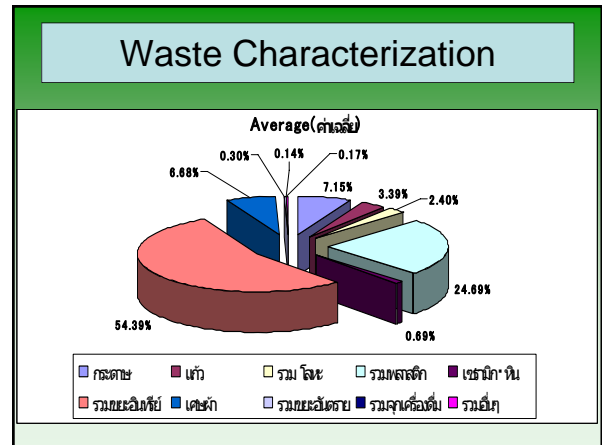


### General Information

**Population** 17,921 (Male 9,364, Female 8,557)  
 - Household 7,662  
 - Population density 789 person / km<sup>2</sup>

**Transportation**  
 It is about 13 km from CM city center on the Highway No.1006 and take time about 20 minutes.

**Annual budget for 2009**  
 Total 80 million baht



### Status of waste management

**Waste generation** - 12 tons / day or 272 tons / month

**Waste collection, transportation**

|                |                                |
|----------------|--------------------------------|
| Compact truck  | 1                              |
| - Truck        | 5                              |
| - Small pickup | 1 (for collect market garbage) |



- ### Waste collecting system
1. Set up collecting time and route for each truck
  2. Separate waste into 3 category as organic waste, recycle waste and general waste.
  3. General waste are collected to transfer station. Then the private contractor will take it to disposal.
  4. Recycle waste is separated by collective staff in each truck and sale to recycle shops.



- ### Waste reduction at household
1. Promote waste reduction and separation at point source (at household)
  2. Support household to do organic waste composting.
  3. Promote communities to set up recycle group.
  4. Develop collecting system to

### Budget for waste management

|                                       |                  |
|---------------------------------------|------------------|
| - Private contractor to dispose waste | 4.5              |
| million baht / year                   |                  |
| - Collecting staff salary             | 1,669,800        |
| baht / year                           |                  |
| - Fuel oil and car maintenance        | 840,000          |
| baht / year                           |                  |
| - Wage for workers who compost waste  | 337,440          |
| baht / year                           |                  |
| <b>Total</b>                          | <b>7,347,240</b> |
| baht / year                           |                  |

- ### Methodology of composting
1. Collecting organic waste mainly from markets and some household.
  2. Cutting organic waste to be small size
  3. Mix organic waste with squeezed grounds of sugar or animal feces with ratio **3 : 1**
  4. Take the mix organic waste to composting boxes and high about 1 – 1.5 m.
  5. Aero-engine every morning about 20 – 30 minutes.
  6. If it is anaerobic composting, it need to be up-



## Composting boxes



## Methodology of composting liquid fertilizer

1. Separate vegetables and fruit peel into plastic basket about 3/4 ( plastic basket 20 liters )
2. Add squeezed grounds of sugar 3 – 5 kg.
3. Add fermentation liquid or EM about 1 liter and mix.
4. Compost about 2 – 3 weeks.
5. The colour of liquid fertilizer should be blown and acidic smell
6. If there is offensive smell, put more squeezed grounds of sugar. When there

## Separate vegetables and fruit peel



## Plastic tank for compost liquid fertilizer 500 liters



## Production



## Application / Usage



### **Problems or issues regarding waste management**

1. There are temporary population such as tourists and factory workers about 10,000 people since there are variety of handicraft factories as SA-paper, wood carving etc.
2. There is no sanitary recycle center in SKP so sometime the odor and flies that being a nuisance for people around transfer station.
3. Lack of public awareness in waste

### **Q & A**

Thank you  
for your  
attention

