

# Plan of waste in Deilaman City: In process

**Support organization: Deilaman's municipality**

**Level activity: Deilaman City**

**Ecosystem: mountainous**

**Summary plan:**

## **Collecting dry and wet waste in Deilaman (Waste separation-vermicompost)**

**First step:** call of training plans in mosque

**Second step:** pictural training in school

**Third step:** dry waste festival at the end of summer

### **Condition of work before start:**

At the moment Deilaman's municipality as the only administrator of collecting dry waste in Deilaman, take action to present of primary training encourages, codifications, making table time plans and receive of dry waste.

According to the table time plans even if the first step is taken but municipality hasn't facilities and arrangement for expanding the mention activities in long time. In other hand citizen didn't learn the issue of sorting and didn't observe it. So that samples of wet waste observed in received bag of dry waste frequently.

### **Lay out of project**

This plan is enforceable in 2 area of wet and dry waste and in 3axes:

- A) Separating at source**
- B) Optimization of collecting system**
- C) Separating from target and produce vermicomposting**

### **Dry waste**

**A) Separating at source:** in this stage with informing, training, making culture and create a facility with cooperation of people dry waste is separate from wet ones. Schools, restaurants , publics and offices are the major addresses of this project in this stage. Goods like different kind of metals, glass, paper, variation of rubbers, plastics, fabrics and ... are categories in dry waste

**B) Optimization of collecting system** the goal in this stage is planning and organizing the plan , collecting the dry waste and organizing the garbage haulery ,making the site of dealing recycled or recyclable materials.

**C) Separation from target;** in this stage separating process of recyclable materials is accomplish such as (paper, cardboard, metals, glass, rubber, wood...)

And recyclable waste transfer to the recyclable site and the others transfer to the administrative centers due to the landfill (conserving)

## **Wet waste**

**A) Separating at the source:** with representing propitiate training and making culture regarding to results and applications of separating wet waste it is possible to encourage honorable citizens to do this work.

Homes , stores, public, offices, hospitals, and... are the major addresses in this stage

**B) Optimization of collecting system:** in this stage it has particular importance to announce timing and organizing collecting plan and receive wet separated waste from homes, with replacement and repair collection vehicles for special items.

**C) Separating from target and produce mulch and vermicomposting** this stage wet waste collected divides into 3 categories:

One stem can be use directly for animal feed

Second stem can be separated and use as a vermicomposting.

And the last one can be transfer with the special vehicle to the nearby cities due to landfill or to the rich and dry vermicomposting mulch producing center.

### **Goals and guidelines;**

Goal; Deilaman with a clean and hale city demonstrating of natural beauty far from any sort of pollution.

Guideline; main innovation of this plan is using of network and reproducibility structure in presentation of environmental training.

### **Methods of performance**

The first and major step in implementation of any plan is training and making culture but the important point is training behalf of the governmental or private institution haven't any efficient effect.

For this one effective alternative can be expand of the training through encourage of grassroots network activities and necessary presentation in order to create and promoting competition among them .in this plan training will be enforce in 3 steps:

#### **First step; Training**

1. Issuance of statement and call of citizens
2. Preparation and codification booklets and proper training resource.
3. General training and chose the ones who can develop the training offered.
4. Training in schools (showing cartoons, and special play for children like handmade with wastage
5. Book reading competition special for teenagers.
6. Training plans special for misdeems (householder) practitioner. Primary training in mosque and training during work.

#### **Second step; Making culture:**

1. Create training and operating networking
2. Encourage trained personal (and other citizens) to networking due to expand and increase of training.

3. Training and do effective activities in techniques and recycling different sort of garbage (like separating wet waste such bread and rice waste, vegetables and fruit peels, wastage of fleshy...).
4. Training produce of vermicomposting organizing of buyer and space allocation to order household compost in market days.

**Third step:** Even ting: in this stage the aim is encouraging citizens by state and showing done activities in different events.

1. Introduce winners by insert names in the local newspaper (newspaper of municipality, banners and install it town and demonstrate accomplished activities in urban TV or cinema or outdoor.
2. Organizing season celebration in Deilaman and pilot villages with prize to the winner.
3. Create regional events provincial or country events in Deilaman (such as clean air day) with cooperation of environmental protection groups and official forums.

For showing done activities and appreciate provincial and country and city environmental activists

4. Holding festivals exhibition of handmade products from waste collected with awards to motivate supporting teenager's talents.

### **Mobilization of resource**

For as much as resources of municipality is limited so Deilaman,s municipality to do well in this project consider corporation the private sector and citizens (specially children's and teenagers and misdeems)

Private sector;

1. municipality is bound himself to fellow-up required for issuing construction of recycling units(like separation dry waste and plastic mill)private or municipal participation
2. Municipality will undertake according the contract 5 to 10 years deliver all items received from citizen waste according to schedule to the private sector.
3. Municipality given matters relating to the carriage, collection and delivery of non –recycle wet waste to the qualified private constrictors which have special vehicles and containers and financial obligation in a timely manner will do.

### **Citizens**

Municipality is always undertaking to provide necessary trainings in line with separating and use of recycle items to citizens.

2. Municipality is undertake to provide primary trainings, training during work, organizing buyer and create mini market or stations order vermicomposting
3. Periodic exhibitions plants with vermicomposting and award.
4. Identify research priorities municipality to the universities of providence in order to research cooperation and codification of practical thesis.

## Forecasting result;

### The main result of this project is:

1. Help ride the environmental by removing pollutants.
2. Income for citizens and active families in the field of separation and vermicomposting.
3. Direct employment in separating trash from target and produce and waste transport.
4. Indirect employment in tourism in Deilaman through network events.

## Networking

Networking is the most important development strategies for teamwork in different countries in many institutions if each customers increase other customers to the company some will enjoy valuable discount and reward.

The plan can also benefit from the networking point so that each person training some others and adding them to the total number of trained activist recycling so that they are able to provide waste separation and this policy can be used in producing compost .in this way we can %5 scores generation of people trained by each person adding into his score and the final score of each person include total score of personal performance and scores trained generation.

The maximum monthly rates per person of trained generation to double the monthly rates can be achieved by the same person.

Final score in each month=monthly score of one person –scores trained generation

Scores trained generation= (total scores trained generations×5%)≤monthly rates per person

Monthly rates per persons multiplied by the weight of dry delivered waste in month and the degree of sample quality visited...

Monthly rates per person=rating of sample qualify visited ×weight of dry delivered waste in month.

Rating in each month samples are revisit randomly in the presence of deliver and rating will calculate.

This method of evaluation can also be used for composting and dry waste delivered and is the criterion for selection of the best monthly and quarterly.

Prizes at the beginning will be provided from the training and cultural budget municipality and then of saving in coast of collecting and wet waste transport to Lahijan.