



RUSTIC

Municipal Solid Waste Management Program

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Mission and Vision

Vision

- To protect soil organic matter
- To raise awareness on compost usage
- To protect environment save people from health hazard
- To reduce of carbon footprint and protect of biodiversity

Mission

- To improve compost production efficiency in both quality and quantity.

What is the Social Problem

Unplanned food production in Bangladesh has intensified significantly due to the high demand for food causing the following problems:

- Indiscriminate use of unbalanced chemical fertilizers to increase production has significantly reduced soil fertility of the farmlands
- The soil condition of Bangladesh is at high-risk due to reduced organic percentage. (Optimum rate: min 5%, current rate <1.5%)
- Most of farmers and landowners of this country have no or limited knowledge on land fertility and the importance of organic compost
- 250000 households in the Khulna City Corporation (KCC) area dump an average 350-400 metric tons of garbage daily creating the problem of unmanaged waste in the city.

How it can be overcome?

- By better managing waste material by transforming recyclable waste into resource
- By providing compost to the farmers which:
 - Reduces use of inorganic fertilizer
 - Reduces cost of cropping
 - Maintains nutrition balance in soil
- Doing the above focuses on achieving the following SDGs:
 - Goal 1: Poverty reduction
 - Goal 7: Ensure sustainable environment
 - Goal 8: To act on trade, credit, aid, public health and technology



Before Implementing this Program



After Implementing this Program

Legal Structure

Registered under:

- *Department of Social Welfare Reg No: Kln-537 dt.31st May, 1993.*
- *NGO Affairs Bureau Reg No: 1949dt. 25 July, 2004 and Renewal date. 07 July, 2015 (2nd).*
- *Certificate Department of Environment vide no-10/6662/2698 dt. 29/12/2013.*
- *Department of Agricultural Extension, Registration: M-614, Date: 14/03/2013.*
- *Joint Stock Company Reg. No. KHC-1318/14 Dated 30th December 2014*

Present activities and expertise

i) House to House Waste Collection

- A team of 28 staff members who are responsible for 14 pedal vans.
- Each waste collectors serves about 300 households each approximately.
- recyclable materials are separated from the non-recyclable items after collection.
- The recyclable wastes are transferred to the secondary disposal site.
- The waste is stacked in a convenient manner for easy loading and transport to the compost site.



Present activities and expertise

ii) Composting

A team of 19 staff members who are responsible for separating, processing, quality control, final product and packaging.

- a) The composting plant has 2 composting sheds, 1 separation shed, and 3 store rooms.
- b) These are semi-pacca with proper drainage and aeration.
- c) Necessary water tanks beside composting sheds have been established and the tanks are linked to each of the waste piles for collection of liquid extracts from decomposing organic wastes.
- d) These liquid extracts are used in maintaining moisture and to maximize the quality and quantity of compost with the technical support of WINROCK International's Farmer to Farmer project.



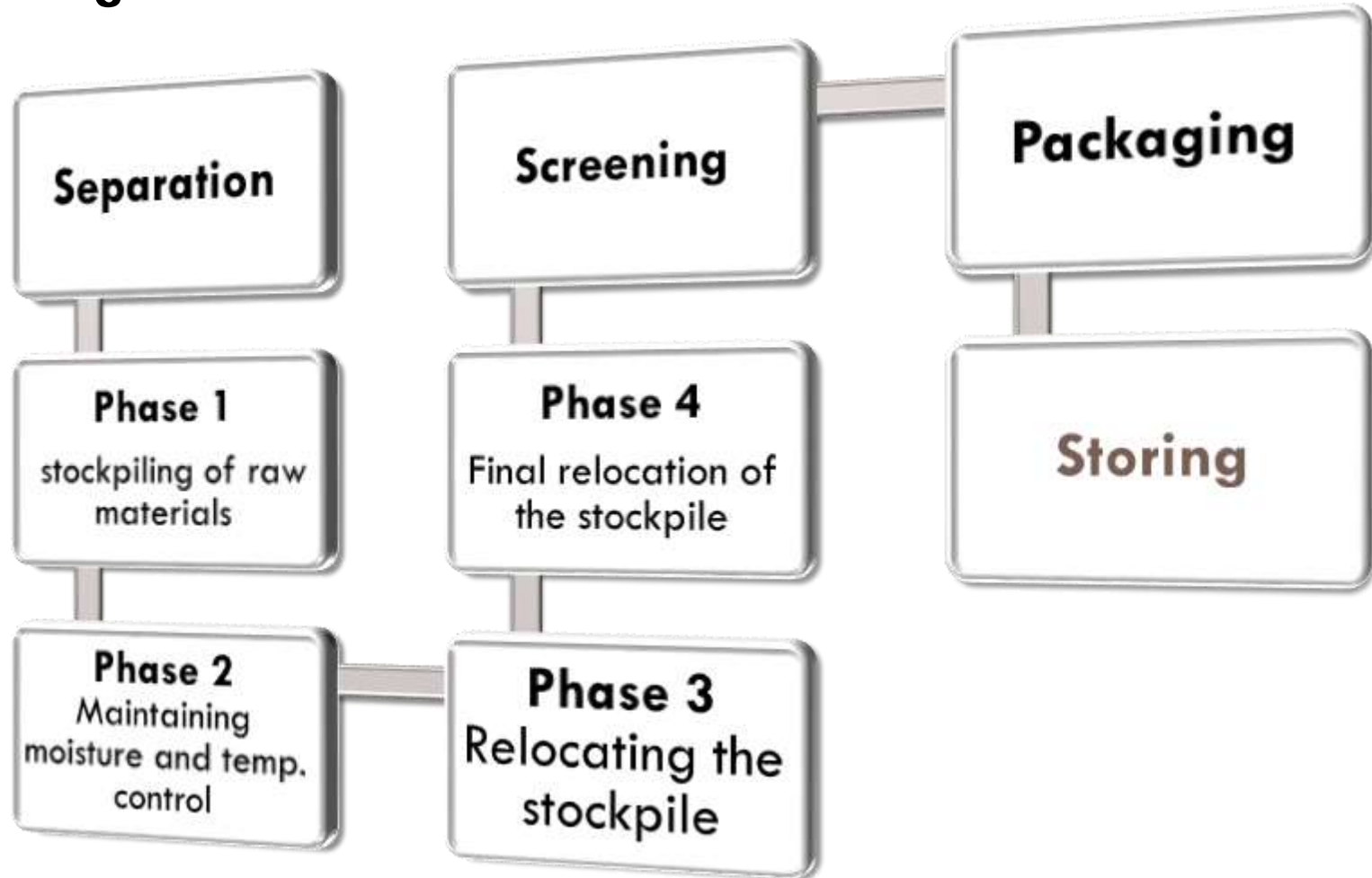
Present activities and expertise

- RUSTIC maintains close coordination with city authority as well as garbage truck drivers for safe transportation and delivery of the garbage to the compost plant site.
- any un-compostable items are disposed off to the final dumping yard and in no way leave it in any other place.



Present activities and expertise

Composting Process



Training

Dr. Shafiqur Rahman (Volunteer, USAID - Founded Farmer-to-Farmer for Food Security Project, WINROCK International Bangladesh) has visited RUSTIC from 8th September to 20th Sept. 2012 and provided with theoretical and practical training to the RUSTIC employees and plant workers for securing quality, increasing quantity and cost reduction of the RUSTIC compost.



Project Location

Compost Plant:

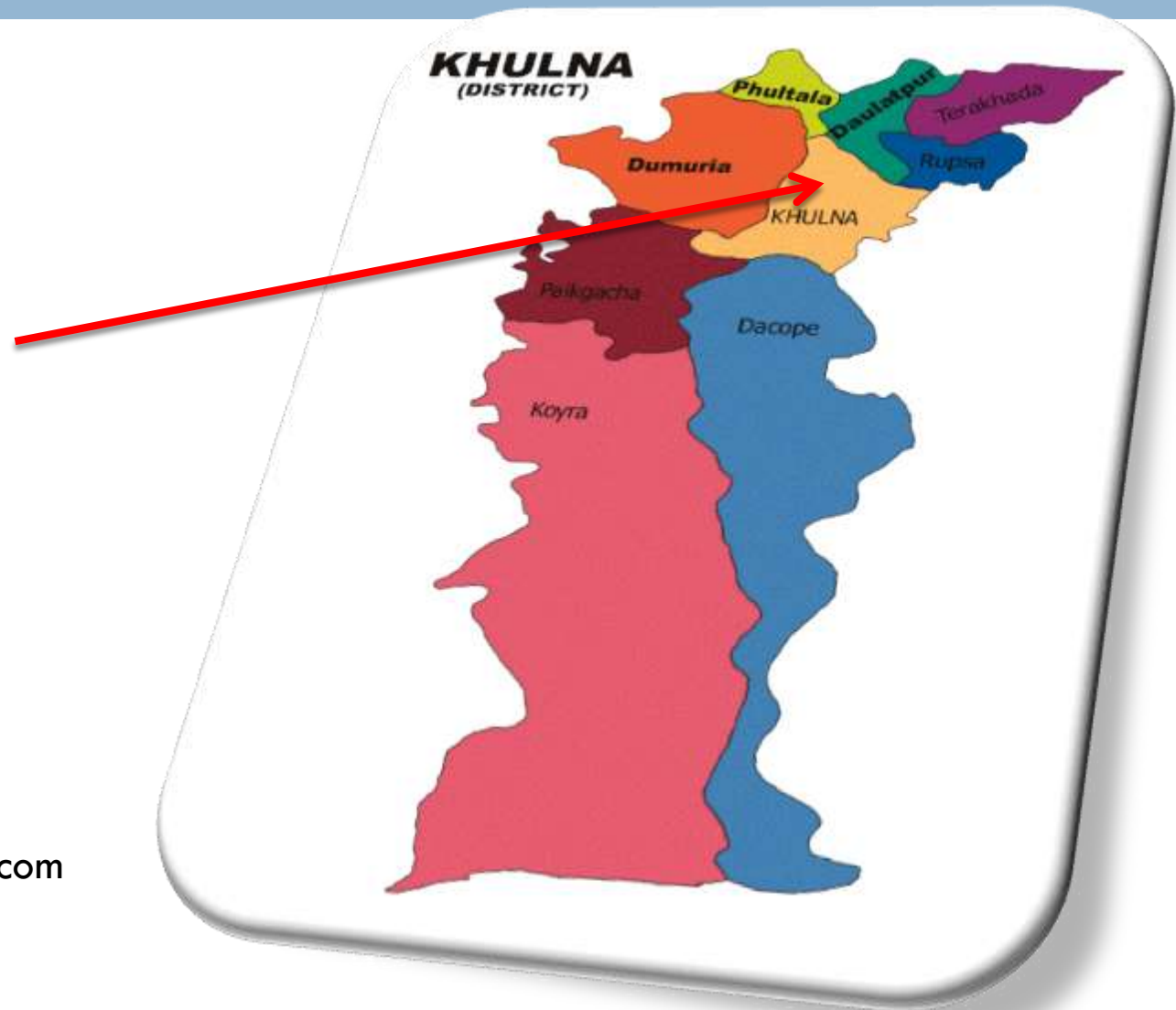
Satkhira Road,
Rajbandh,
Batiaghata,
Khulna.

Office:

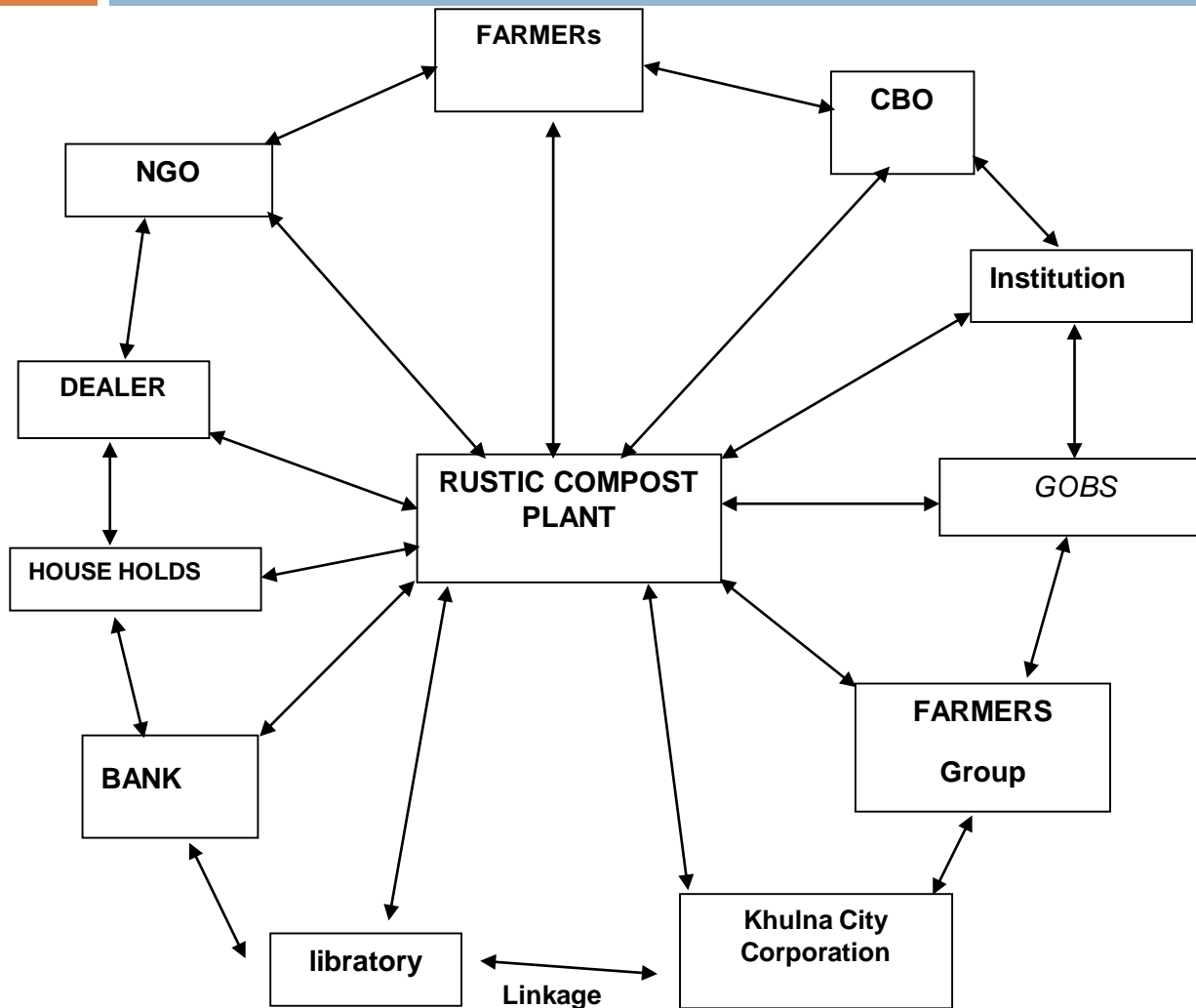
HouseNo.11, RoadNo.6,
Sonadanga R/A,
Khulna-9000

www.rustic-bd.org/

Email: rustickln.bd@gmail.com



Marketing and Distribution



- The compost is now presently being supplied to the farmers in south-west region of Bangladesh.

- RUSTIC also made an agreement with ACI Company Ltd to supply RUSTIC-Compost Joibashar.

Competitors



- No competitors right now.

Impact on Waste Management

- **Reduce the indiscriminate dumping of waste**
- **Lower the cost for waste disposal**
- **Improve utilization planning of raw materials (compost, waste, energy)**
- **Recover valuable by-products (paper, plastic, metal, etc.)**

Impact on the Environment

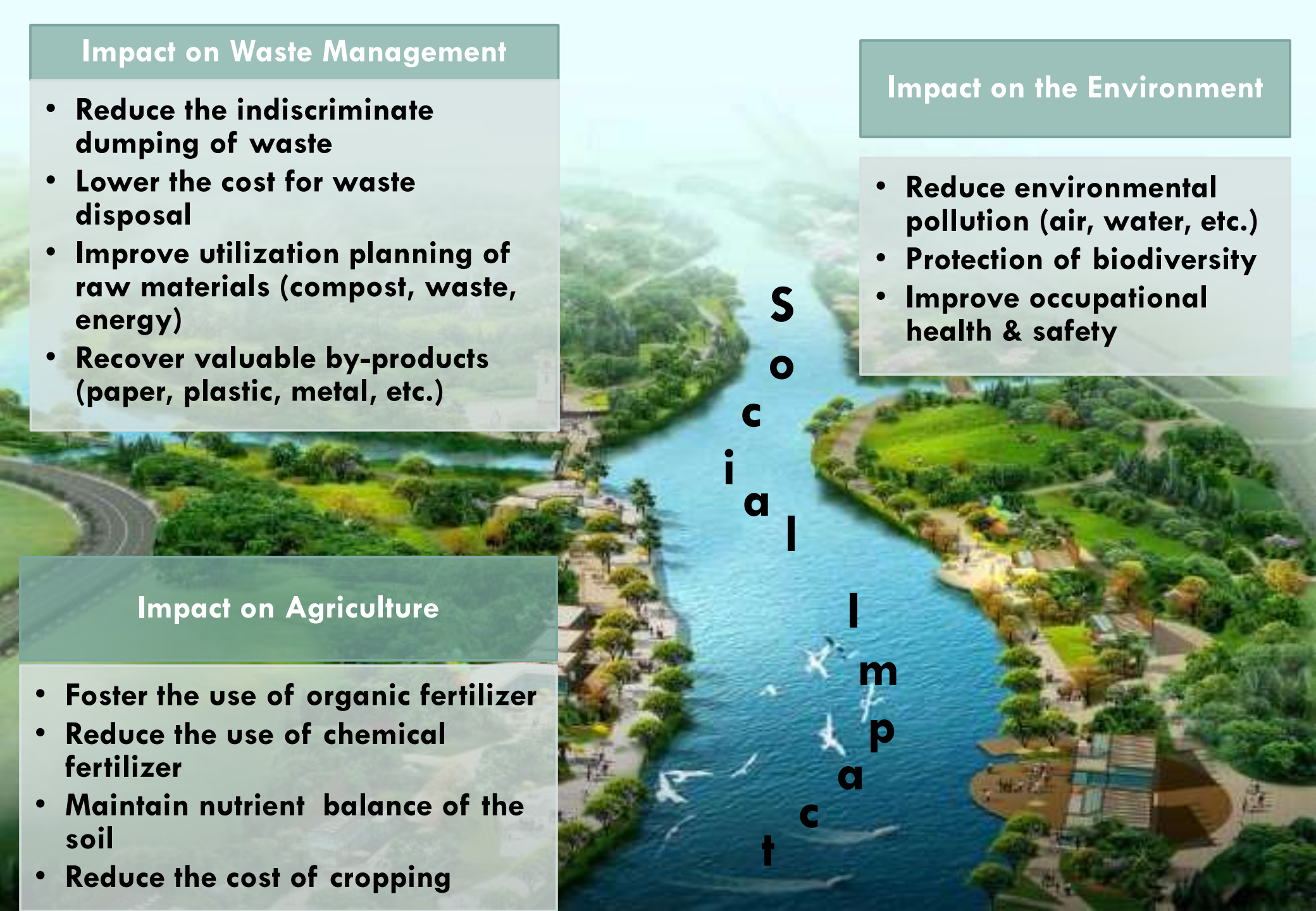
- **Reduce environmental pollution (air, water, etc.)**
- **Protection of biodiversity**
- **Improve occupational health & safety**

Impact on Agriculture

- **Foster the use of organic fertilizer**
- **Reduce the use of chemical fertilizer**
- **Maintain nutrient balance of the soil**
- **Reduce the cost of cropping**

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Waste Collection



RUSTIC Plant



Dumping



Separation



Packaging



Screening



Piling



After Separation



Stock



Composte Application



Vegetable Demo Farm



Paddy Demo Farm

Acknowledgements:

For this initiative RUSTIC has already been awarded from the ASHOKA Innovators for the Public, USA and very recently has received HSBC-The Daily Star Climate Awards-2013 in Community Engagement Category on 28th February 2014.





Thanks to All

Moral Noor Mohammad