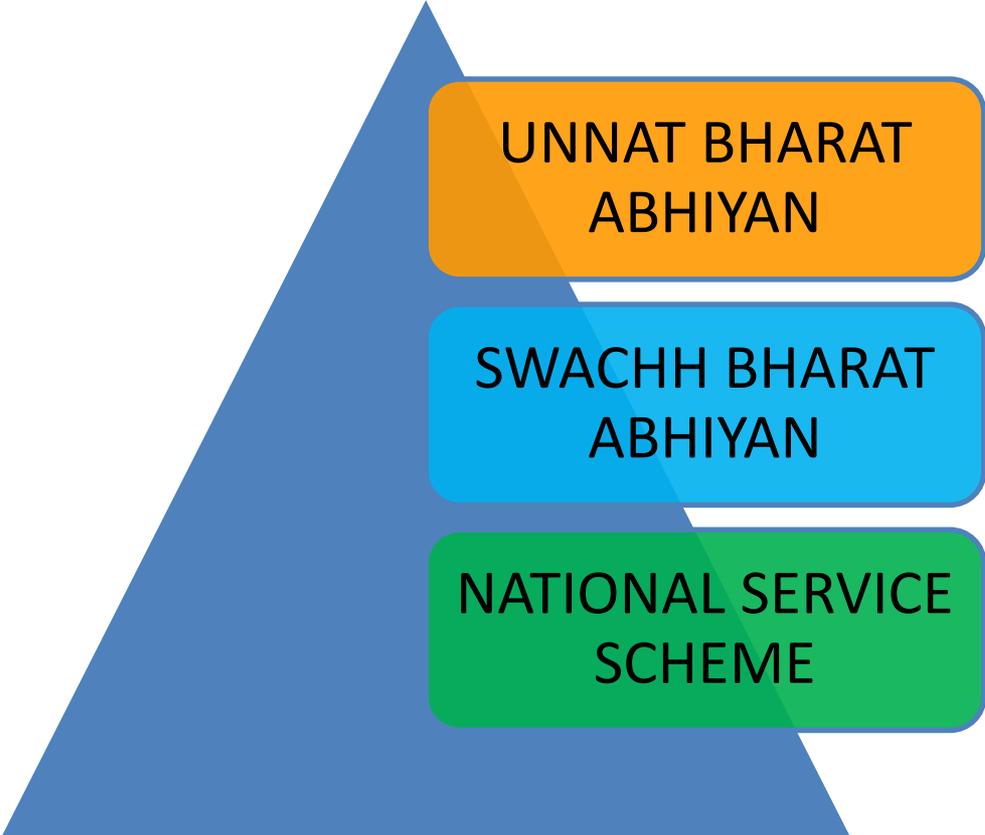


IIT Guwahati- Outreach Activities



UNNAT BHARAT
ABHIYAN

SWACHH BHARAT
ABHIYAN

NATIONAL SERVICE
SCHEME



Unnat Bharat Abhiyan

উন্নত ভারত অভিযান

Indian Institute of Technology Guwahati

ভাৰতীয় প্ৰযুক্তিবিদ্যা প্ৰতিষ্ঠান গুৱাহাটী



Rural technology action group

Phase manner
implementation
- network

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India

Amalgamation
and synergy
with different
ministries

Problem and resource mapping for holistic
development

Goals

- Development agenda within institutes of Higher Education, Institutional capacity and training
- Stakeholder interactions, design of societal objectives
- Access to professional resources
- Foster mutual trust and confidence

Objectives

- To build institutional capacity relevant to national needs
- Foster mutual trust and confidence

Current Policy

To adopt a Village and Develop appropriate technologies

Sl. No.	Name of the Village	State	Description of Work	Remarks
1.	Rajaduar	Assam	Heritage	Health and Hygiene will be for all the villages
2.	Kating Pahar	Assam	Education, Sanitation	
3.	Purankhundum	Assam	Pottery, Education	We have been working for improvising skills for Pottery
4.	Lumpi, Boko	Assam	Nature and Rural Tourism, Education	Snow fall starts around January
5.	Amtola	Assam	Renewable Energy, Education, Tourism	We have started Working in the village
6.	Bodo Gaon	Assam	Education, Sanitation	
7.	Tiling Gaon	Assam	Education, Sanitation	
8.	Ananda Nagar	Assam	Education, Sanitation	
9.	Baka Gaon	Assam	Education, Sanitation	
10.	Mawlynnong	Meghalaya	Biogas Plant	

Health and Sanitation is the main agenda of the program



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ANIMAL HEALTH CAMP AND VACCINATION CAMP

Date : 12.09.2015/ 21.02.16

Venue : Rajaduar, Tiling Gaon NG

Time : 8 a.m – 3 p.m.

No. of Beneficiaries: 134 persons, total
223 animal including Cattle, Goat, Dog
and Poultry

- 3 Doctors from State Veterinary College
- 10 members from IITG (faculties, staff, and students)
- Service provided
 - Free check-up
 - Distribution of medicine
 - Vaccination
 - Medical Advice





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HEALTH CAMP ORGANIZED

স্বাস্থ্য পৰীক্ষা শিবিৰ

Date : 30.05.15

Venue : Dirgheswari Middle School,
Phulung Village

Time : 10 a.m – 3 p.m.

No. of Beneficiaries : 267

- 30 members from IIT G (doctors, nurses, faculties, staff, and students) and complemented by the Indian Railway's medical team.

- Service provided

- ENT
- ORAL AND DENTAL HYGIENE
- GENERAL MEDICAL FOR ALL AGE GROUPS
- GYNAECOLOGY
- CHILD CARE
- DIABETIC





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- Development of improved cutting tools and equipment for supari (**Assam Mahila Samata Society**)
- Development of Solar Assisted Aerator for fish farmers of NE India
NGO/Institution Associated (**Ajagar Social Circle, Goalpara, Assam**)





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Workshop cum demonstrations of Potters Wheel

- **SWABHIMAN-The Power of Society**, in association with **RuTAG-NE** organized a workshop in Purnakundum village of Nalbari
- 40 local artisans participated in the workshop





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Demonstration of Pottery Wheel

In association with SWABHIMAN
The society of Power RuTAG-NE
has organized one
demonstration program in
Dharam deka suwali high school,
parchim pakua, Bahjani Nalbari
on 1st March, 2015





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Technology transfer to Eri cluster

- One new technique for extraction of knitting yarn, with the objective of developing diversified products from Eri silk developed by Mr. Dulal Choudhary has been demonstrated in different places of Assam.



Improving Societal living standard



Layers of plastic net

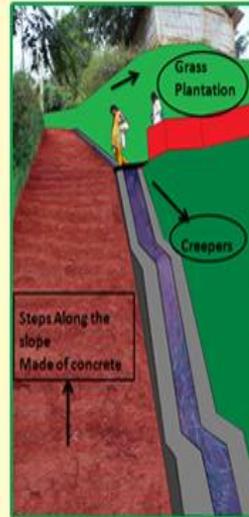


Stable bank

Ecofriendly measures for protecting villages located on river bank



Existing Situation

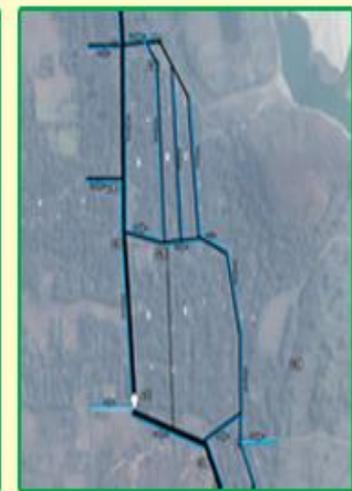


Proposed EMPs

Developing Himalayan Habitats through Ecological Management Practice(EMP)



Area with no drainage



Drainage Plan

Prioritizing drainage planning for hazard free India



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Tourism potential of Mawlynnong, cleanest village of Asia



Steps are to be taken by IITG:

1. The waste of the village will be used for vermi-composting which will improve the soil quality and growth of flowers and same can be a business model for the villagers.
2. Improvement of tourism in the village
3. Zero emission houses



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- Biogas Generation
- Value Addition
- Waste utilization

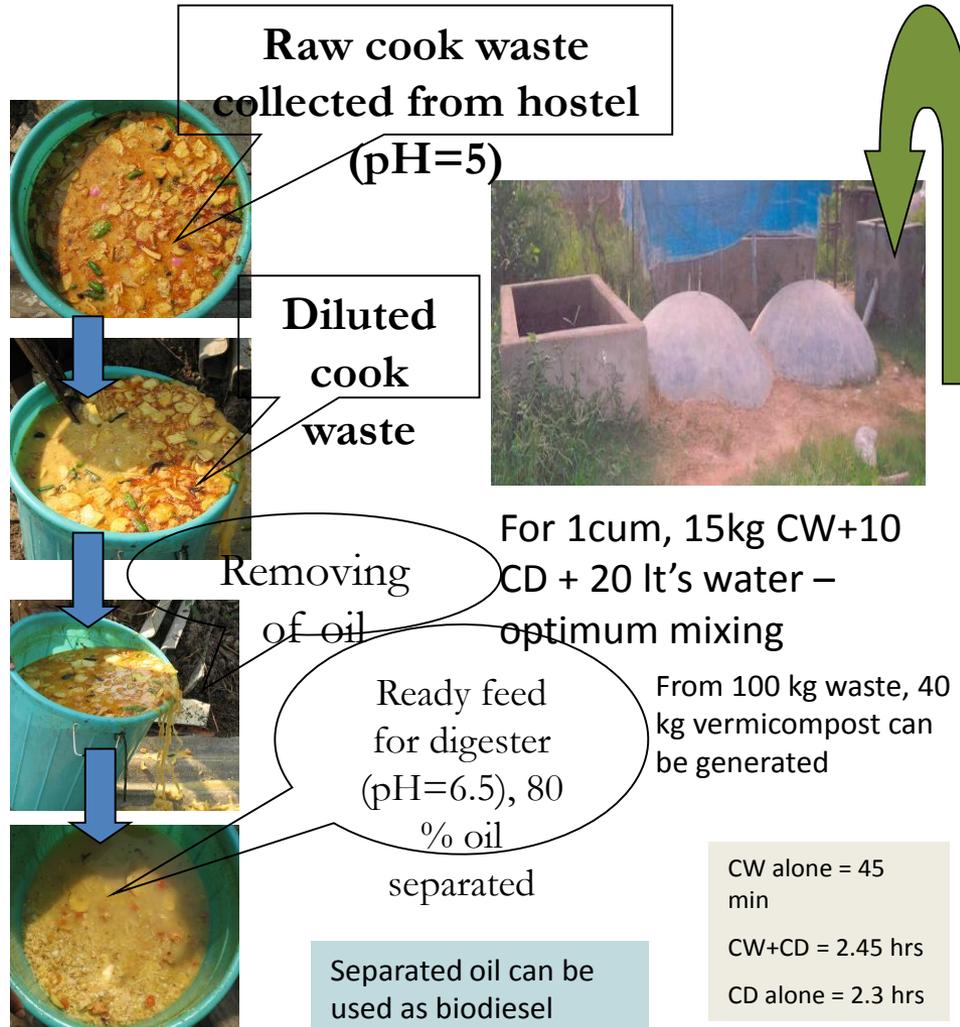
Organic waste to Energy



Simulation of a new model



BBTC, IITG



Value addition



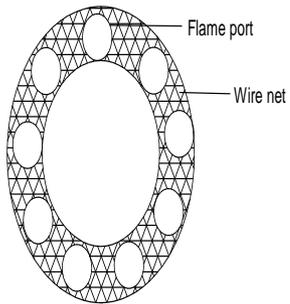
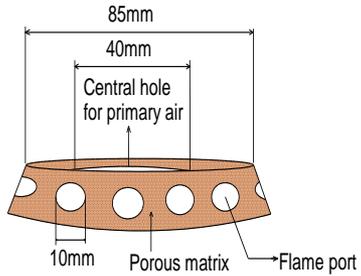
Vermi composting unit

Cycle time: 60-70 days



Vermi compost Rs.10/- per kg
 CW=Cook Waste, CD=cowdung

Plant oil Stove and Porous Medium Inserts

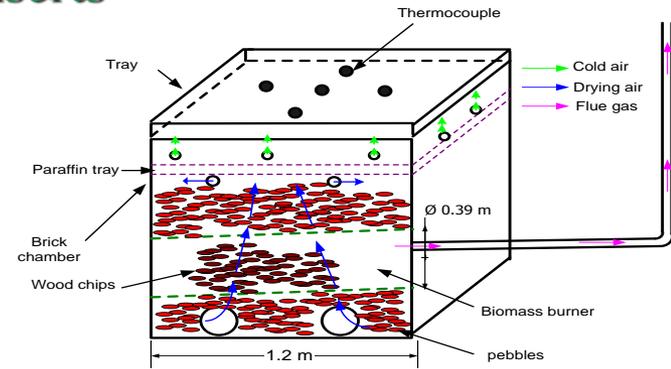


Conv. High pr. Stove: 1.5 kgf/cm² Efficiency: 55-60%, Fuel consumption: 300g/hr

Efficiency: =45%

Fuel consumption: 240g/hr

Emission is better than kerosene stove



Porous medium and latent heat storage
natural convection grain dryer

Porous medium inserts



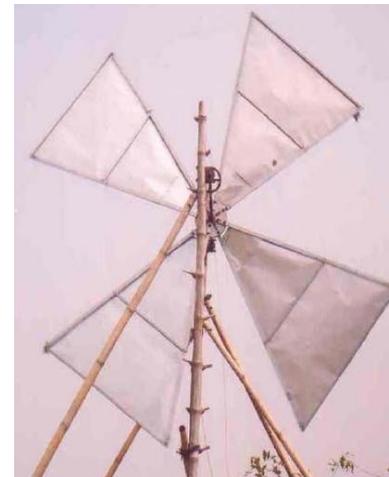
Open flame combustion



With porous inserts



100% plant oil stove



On field Wind mill



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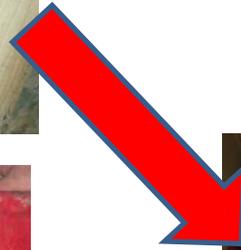
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Waste to Products

Gasifier for decentralized power production



Developed an energy efficient machine for areca nut leaf plate manufacturing



Swachh Bharat Abhiyan

Indian Institute of Technology Guwahati



Adoption of Orphanage (Shishugram)

IITG is in the process of having an MoU with Red Cross regarding adoption of its girls orphanage situated just outside IITG;

- ❖ NSS female volunteers conduct regular tuition classes at the orphanage.
- ❖ Volunteers also help in arranging additional food and medical care.

Zero Illiteracy Zone (ZIZ)

- ❖ Tutions for children from the vicinity of IIT Guwahati
- ❖ Classes conducted at KV IITG on Saturdays and Sundays Class 1 to Class 10

NSS ACTIVITIES

Sila Sinduri Gopha, Aghyatori

- ❖ Teaching activity at government schools in villages within 5kms from IITG
- ❖ Classes on Saturdays and Sundays conducted by NSS volunteers

School Adoption -IITG has adopted 5 schools in Kamrup district

Activities conducted thus far:

- ❖ Setting up of computer and science labs at North Guwahati Girls High School.
- ❖ Conducting a science demonstration at North Guwahati Girls High School.
- ❖ Assistance in conducting interviews for teacher appointment

THANK YOU

