Sustainable Agriculture Training Center

Christian Social Service and Development Department

Myanmar Baptist Convention

Nyaung Tagar Village; Hmawbi Township

Yangon Region : Myanmar

GOAL

Poverty alleviation through Sustainable Agriculture System

OBJECTIVES

- 1. To disseminate skill and knowledge on farming technologies through trainings and in kind assistance.
- 2. To research, demonstrate and apply the new appropriate farming technology.
- 3. Food Security & Healthy Environment
- 4. Self sustainability

Background History

- -Good technical knowledge are needed to continue experiment and use it
- -Farmers cannot catch up the whole new idea with one stop training
- -CSSDD staff saving 2 % of salary for 5 years and can buy a land(30 acres) 20 miles away from head office and another 5 years could built 2 story Concrete Building
- -Later on HPI, and EED=Bread for the World helping the programs implemented in SATC

Hilly land



Two Stories Training Building



Training program

- •Basic/Advance Agriculture and Livestock training (10/30 days)
- •Appropriate Technologies' Training (2 days per each technology)
- Compost making practical training (3 days)
- Aquaponics Training
- •Environmental (issue based) awareness training (2-3 days)
- Other trainings

1. To disseminate skill and knowledge on farming technologies through trainings and in kind assistance.

Training Program started since 2006

- 3 trainings in 2006 for 56 farmers
- 3 trainings in 2007 for 64 farmers
- 5 trainings in 2008 for 123 farmers
- 7 trainings in 2009 for 180 farmers
- 3 trainings in 2010 for 73 farmers
- 3 trainings in 2011 for 87 farmers
- 3 trainings in 2012 for 54 farmers
- 3 trainings in 2013 for 68 farmers
- 7 trainings in 2014 for 252 farmers
- 2 trainings in 2015 for 87 trainees
- 3 trainings in 2016 for 80 trainees
- 3 trainings in 2017 up to now -92 trainees
- The farmers who are trained in this training centre-1216 with different kinds of trainings

Livestock Extension Workers Training (LEW II, 2009)





LEW III, 2009



LEW IV, 2009



LEW V, 2009



LEW VI, 2010



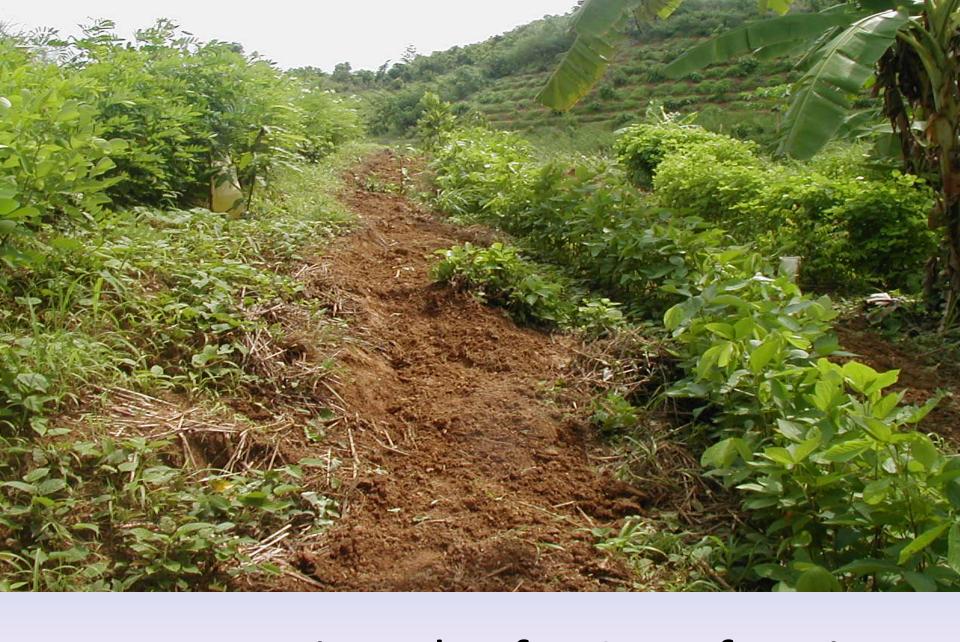
Learning by doing FAITH Gardening and Bio-Rice Husk Charcoal



Learning by doing SALT Farming, contor marking







Demostration plot for SALT farming

Appropriate Technologies Hydram & Micro Hydro power Training





Water tank for Hydram





Hydram training





Renewable Energy Study tour group at Indegofera plantation site



Capacity Building for Sustainable Agriculture Training I, 2017



Capacity Building for Sustainable Agriculture Training II, 2017



Capacity Building for Sustainable Agriculture Training III, 2017



August 22nd to September 20th, 2017 22nd August 30th August 7th September 16th September Opening Ceremony,

Crop Science

Mg Mg Htwe)

8th September

Plant Propagation &

nursery

(Saw Eh Kwe Htoo)

Agriculture ecology and **Program orientation** Adaptation sharing CSSDD (Saya Fred) Pretest 31st August 23th August

Sustainable Agriculture **Plant Nutrition** (Saya Fred) 1st September **Aquaponics**

Capacity Building for Sustainable Agriculture Practice Training (Time table)

9th September Biochar & vinegar production & usage

(Pro.

19th September Small scale business management Recap & Post Test

Climate Change

Adaptation (Abraham)

18th September

Water Treatment and

Filtration, Land ownership

Livestock Breeding (Dr.

(Saw Hei Moo) 2nd September

4th September

Integrated Soil

(Saw Eh Kwe Htoo) 11th September Improved On-Farm Practices and sustainable

20th September Action planning, Evaluation, closing

25th August Livestock Breeding (Dr. Maw Kyu)

Livestock Breeding (Dr.

Maw Kyu)

24th August

Maw Kyu)

26th August

Fertilizers Integration (Saw Hei Moo)

agriculture and permaculture design

12th September

Improved On-Farm

CSSDD

(Saw Hei Moo)

Resource Pool for trainings

Agriculture

Prof U Mg Mg Htwe and team

Dr. Fred Thein Pe

Saw Hei Moo

Saw Eh Kwe Htoo

Livestock

Dr. Saw Maw Kyu

Dr. Saw Pleh Saw

Dr. Lydia Soe

Appropriate Technology

U Kyi Mg Aye

Saw Ler Ner

Saw Hei Moo

U Than Khine

Environmental

Saw Abraham Htun

Saw Hei Moo

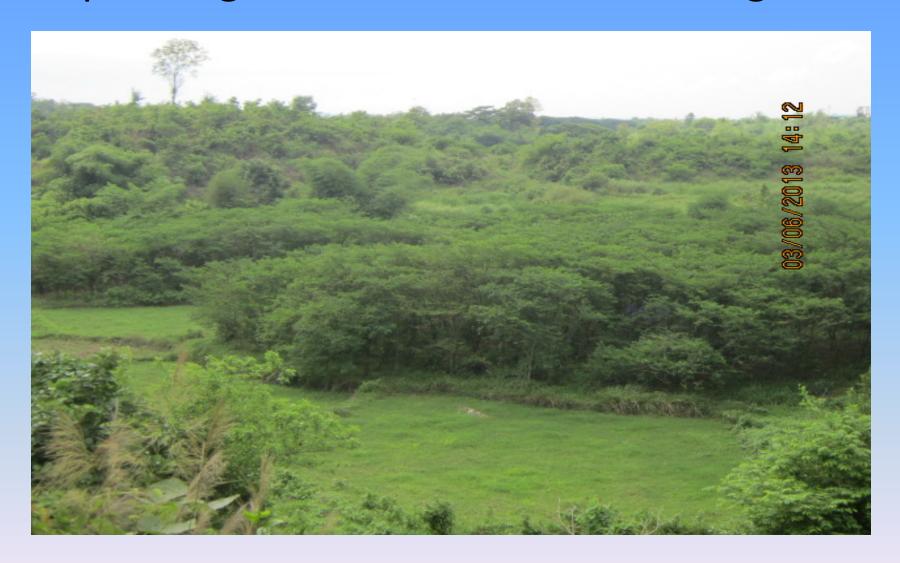
Date	Practical Topic	Materials need	Time
Aug 22	Vegetables	1 drum of Super Bokashi, 1 drum of Rice	3 hours
	seedlings for	husk Chacoal, 1 drum of top soil, 5 kind	
	FAITH garden	seeds, 10 seed trays	
Aug 23	prevent soil	4 sets of A frame,100 Marking sticks, 500	3 hrs
	erosion	pine apple crowns	
	Animals-	Prevented medicines, syringes, animals	3 hrs
	injections		
Aug 24	Making Rice	20 sacks of Rice Husk, 4 sets of stoves, 3 big	3 hrs
	Husk Charcoal	bamboo, candle, match, some piece of fire	
		wood	
Aug 25	Compost Floor	10 sacks saw dust, 10 sacks rice husk, 10	3 hrs
		sacks top soil, 1 Kg Salt	
Aug 26	Chicken House,	Measurement, marking posts;	3 hrs
	ground	Continue with carpenter's work	
	preparation		
Aug 28	Liquid	K2SO4 , Mn2SO4, B2SO4, Zn SO4,	3 hrs
	Fertilizers	(NH3)PO4, CaOH, ½ pond each, Mg SO4 2	
		ponds, 7 plastic drums, others	
Aug 29	Rich Compost	10 sacks dead leaves, 10 sacks green leaves,	3 hrs
		2 sacks animals' manure, 1 viss of	
		chicken/fish inside, tools	
Aug 30	Green	Sun Hemp, plowing machine, grass cutter	3 hrs
	Manuring		
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2. To research, demonstrate and apply the new appropriate farming technology.

Fish Bean plants, for pesticide

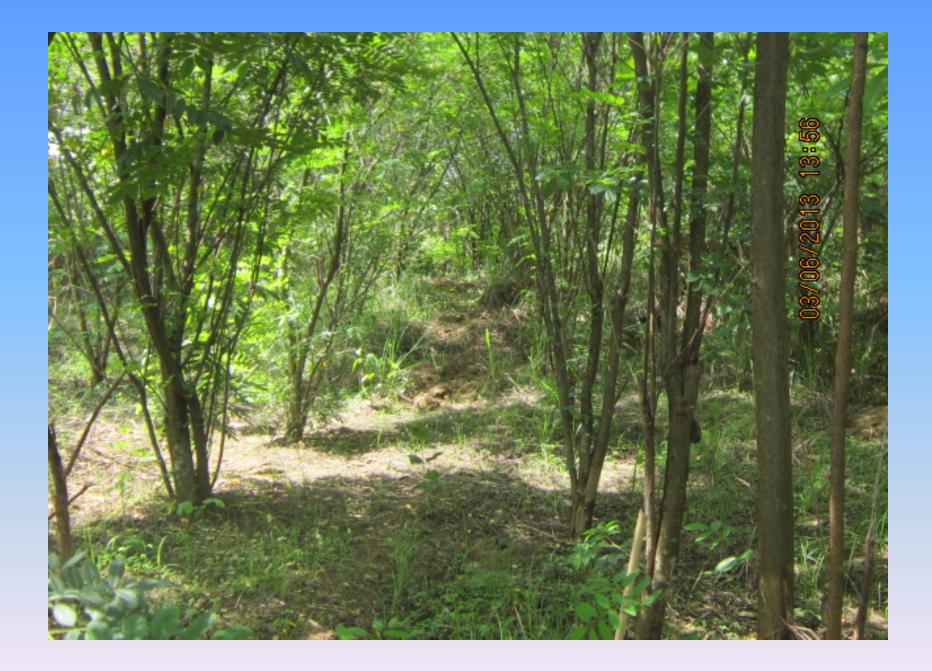


Replanting firewood forest with Indegofera

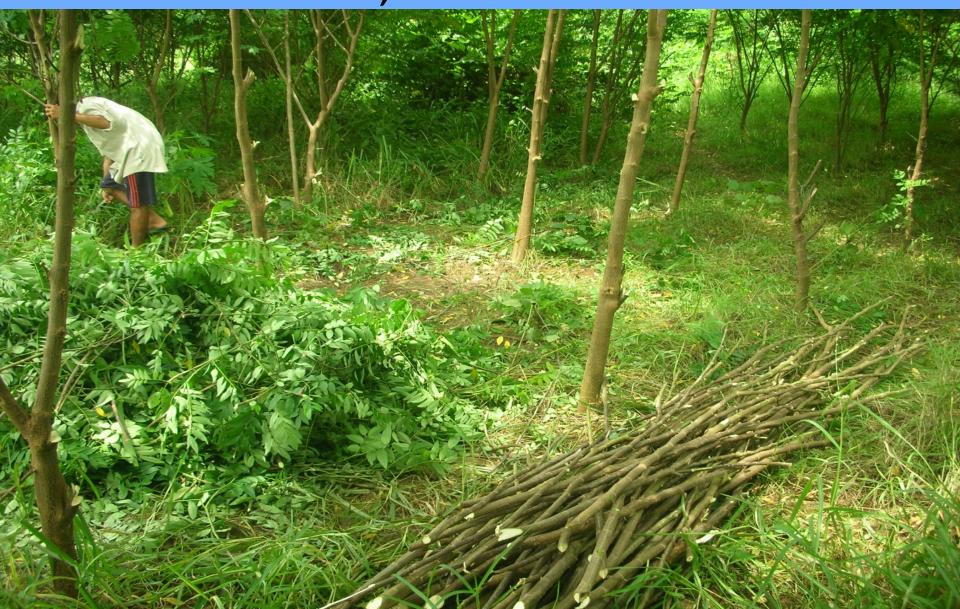


Indigofera can clean thatch weed





Biomas for compost, green manure, fodder, and fire wood





Pomelo plantation in Indegofera forest



Rice field



SRI after 3 days of transplanting



After one month of transplanting





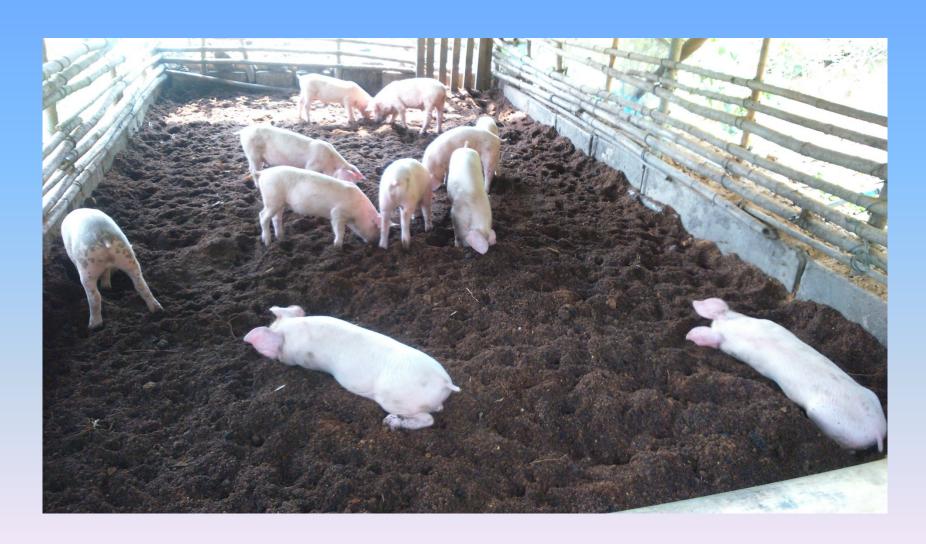
Yield Increase to 30 %



Pig rearing on Compost floor



pig rearing on Compost Flooring



This compost floor method is started to apply and used in more than 100 small scale family manage pig rearing work both in rural and urban area

Pig pen, Bio-gas and electricity site



Bio and Organic Fertilizers Production



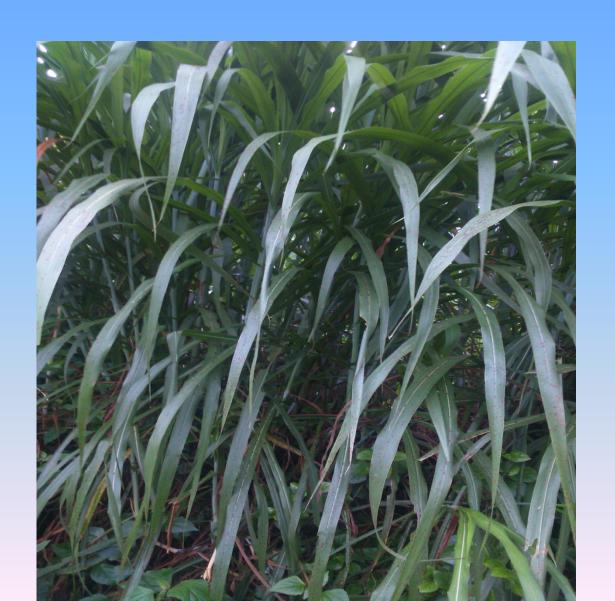
One family used Biogas unit and trainees from neighbour villages



Cat fish farming and Nepia Grass growing







Fish ponds





Goat house surrounded by fodder trees



Local chicken Farming



Vermiculture site



Agro Forestry site



The first Aquaponics system started in Myanmar

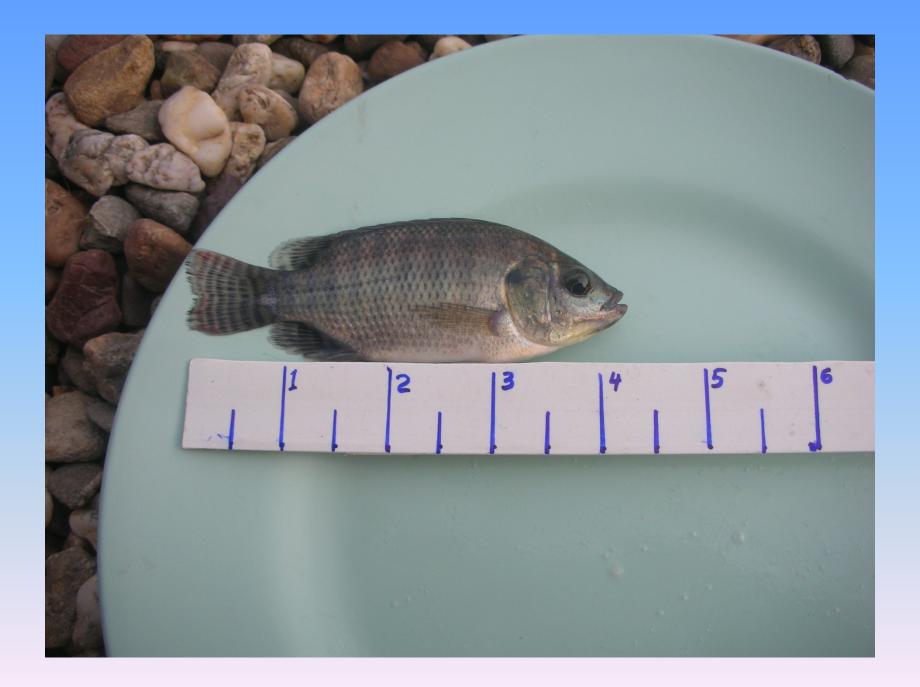




Visited by friends inside and outside of Myanmar



9 Aquaponics system are installed for 8 social based community centers and one in Yezin Agriculture University















Herb













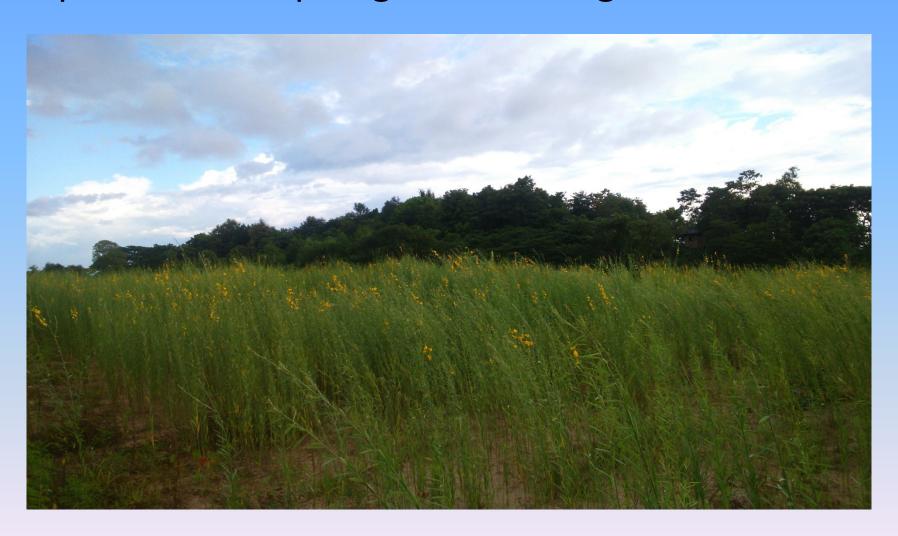




Hilly Land leveling for Agriculture purpose



Reconstructed soil with Sun hemp, photo before plough under for green manure



Good biomass for soil reconstruction



Moringa plantation after 2 weeks of plough under sun hemp for green manure



Rich compost

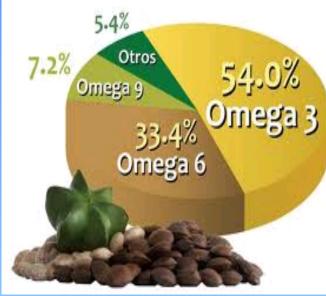


EM Bokashi production





"SACHA INCHI"



Sacha Inchi has Omega 3-6-9. It's a source of Vitamin A, E Protein and other minerals. It vitalizes the immune system, brain system, and bodily system, and revitalizes a person from sickness of various kinds.













Sacha Inchi plantation is reached to 200 farmers on trial for future mass production

Making Bamboo charcoal



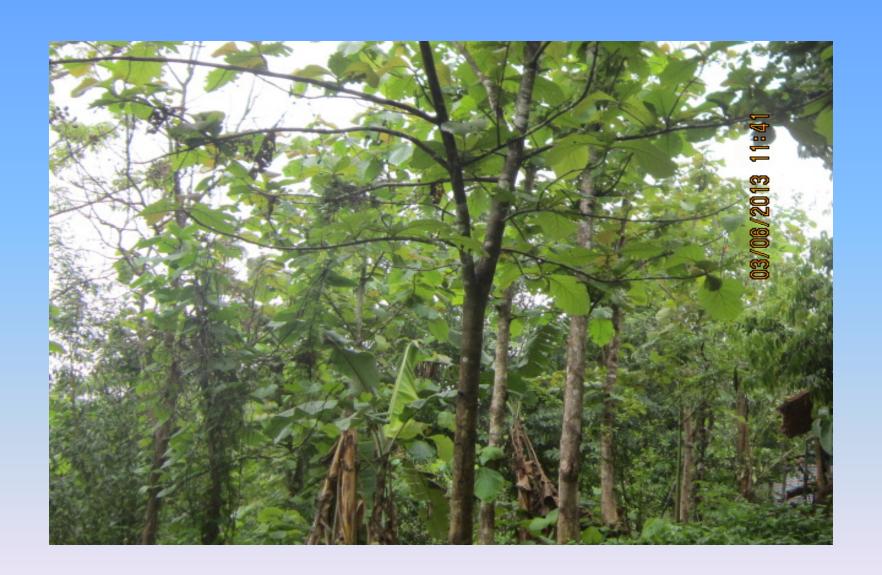


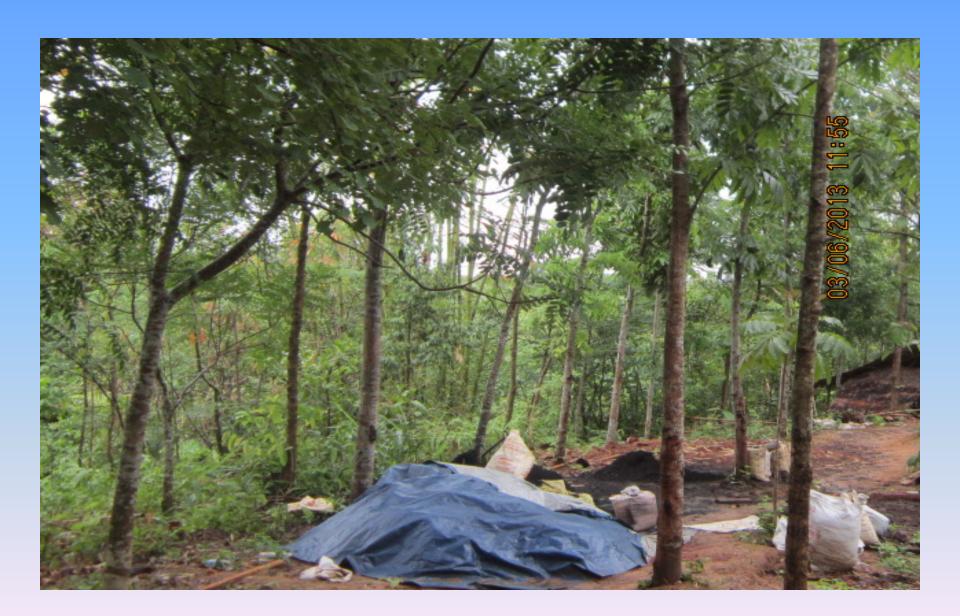
Replanting trees on hill



MBC staff planting trees at World Environment Day



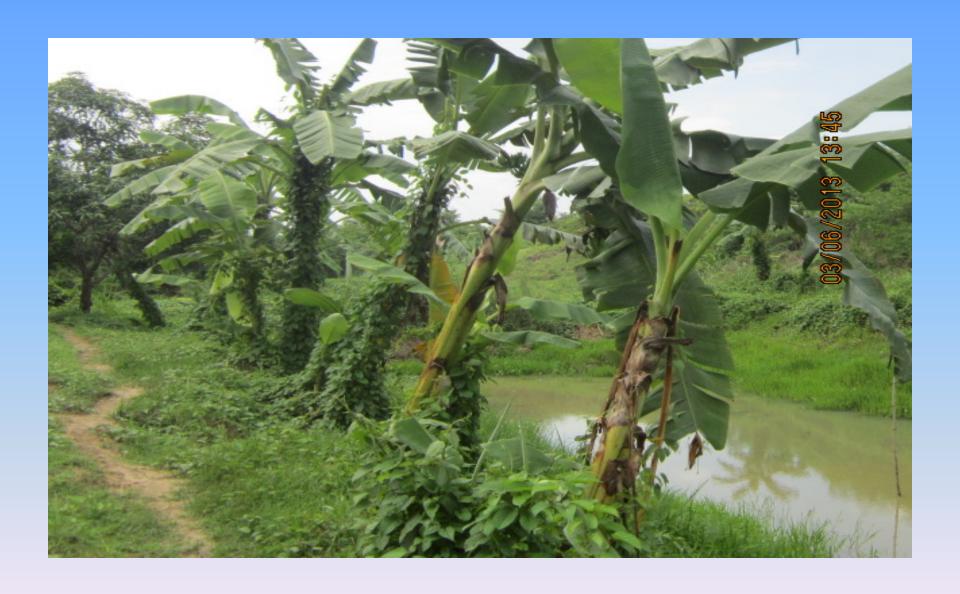


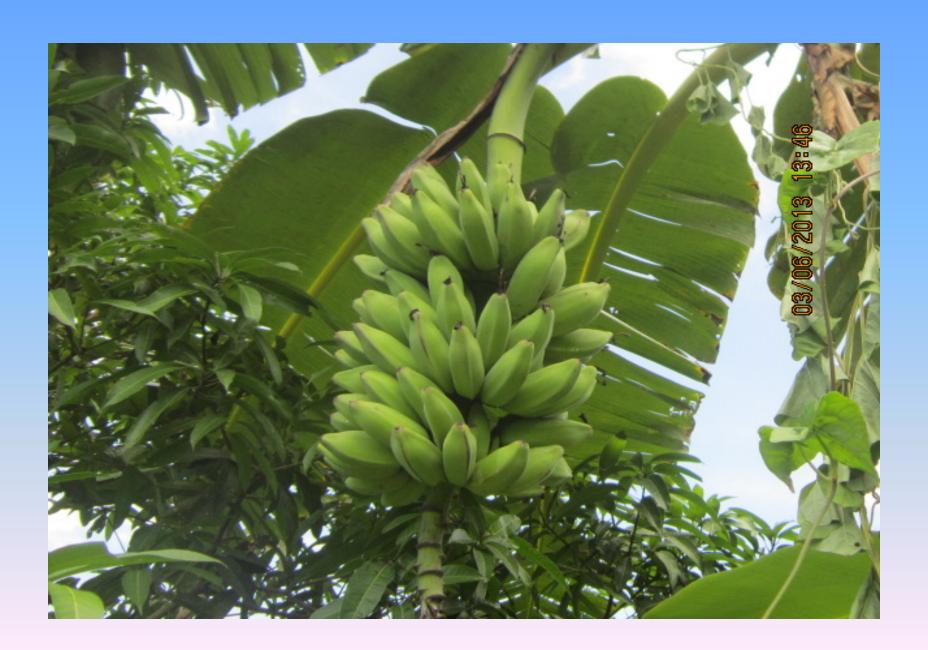


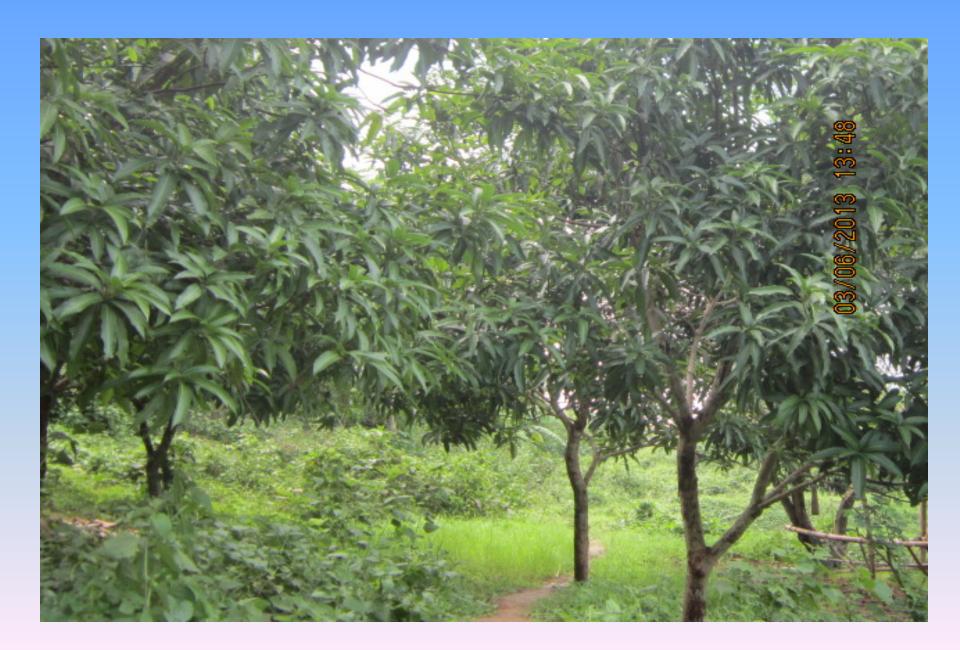
After 10 years

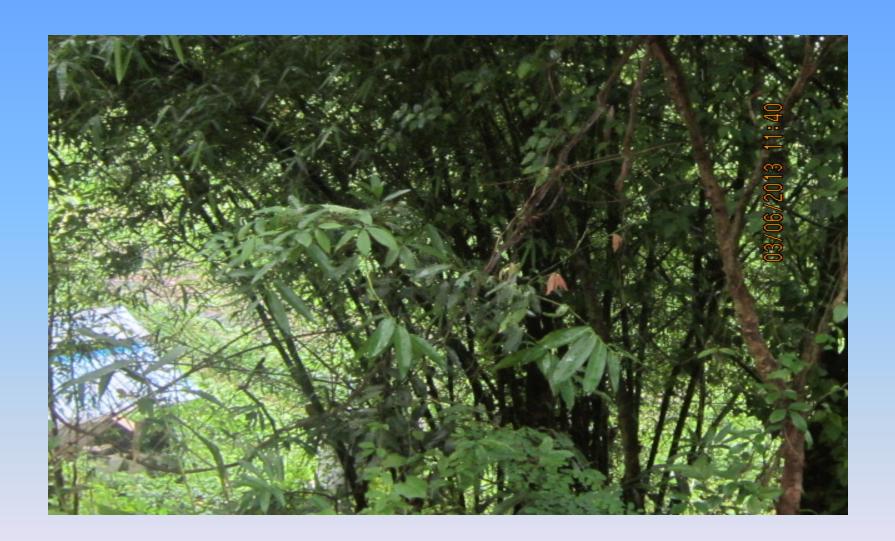


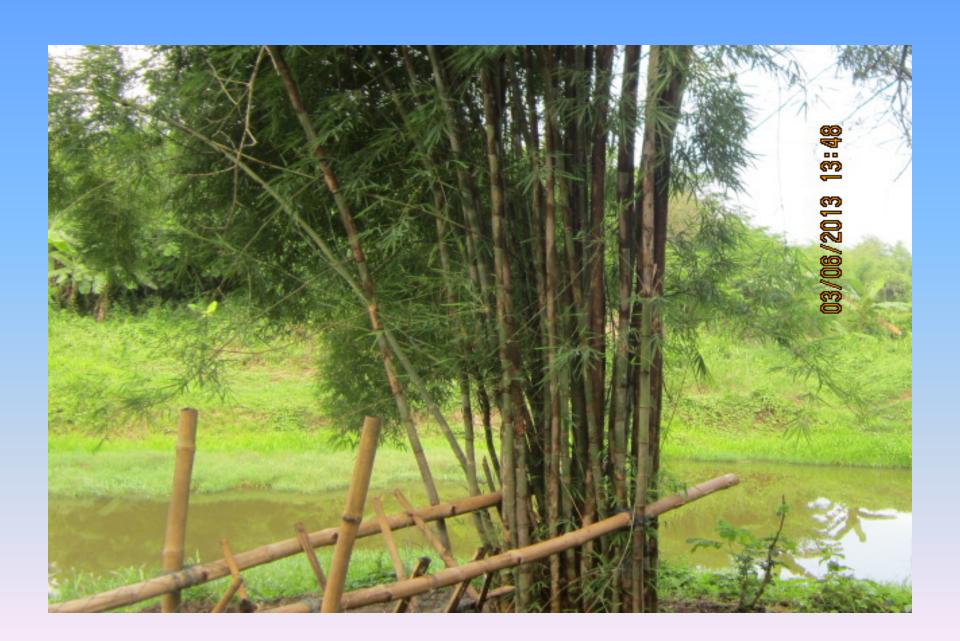
No Chemical is applied on Farming

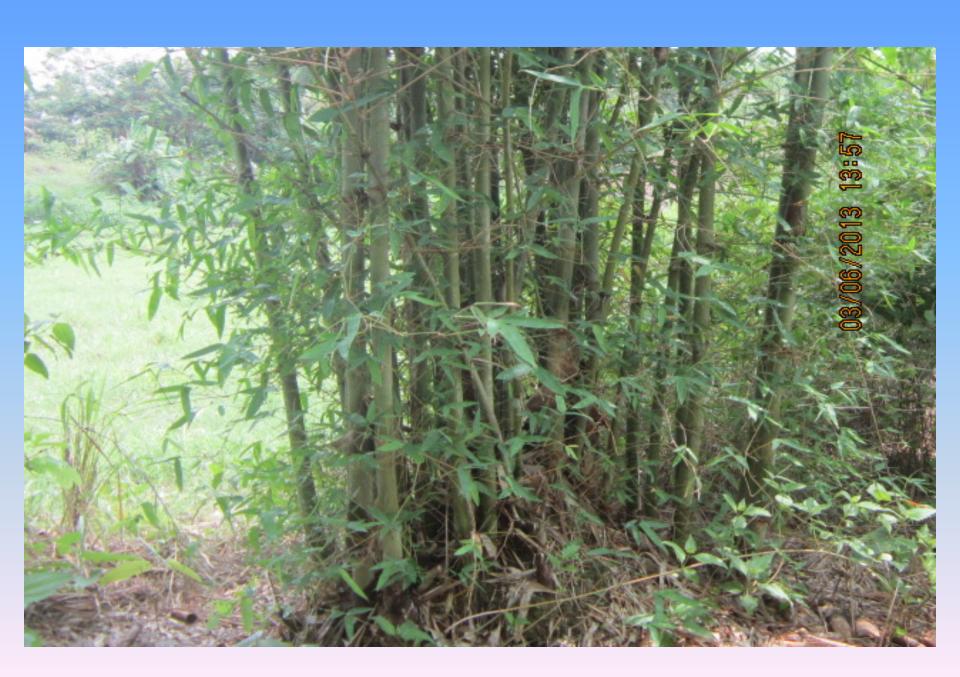


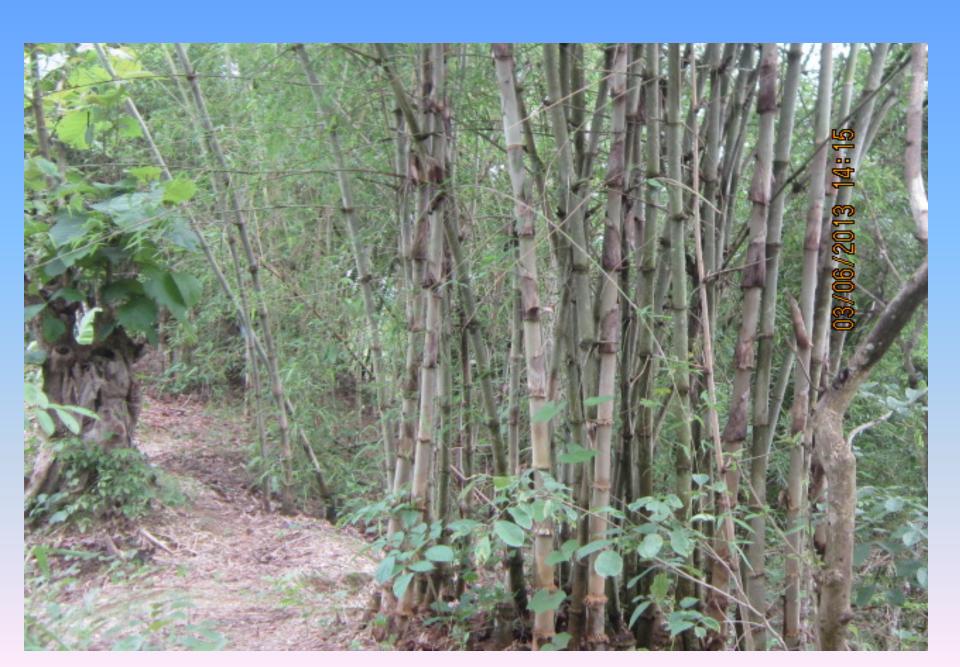


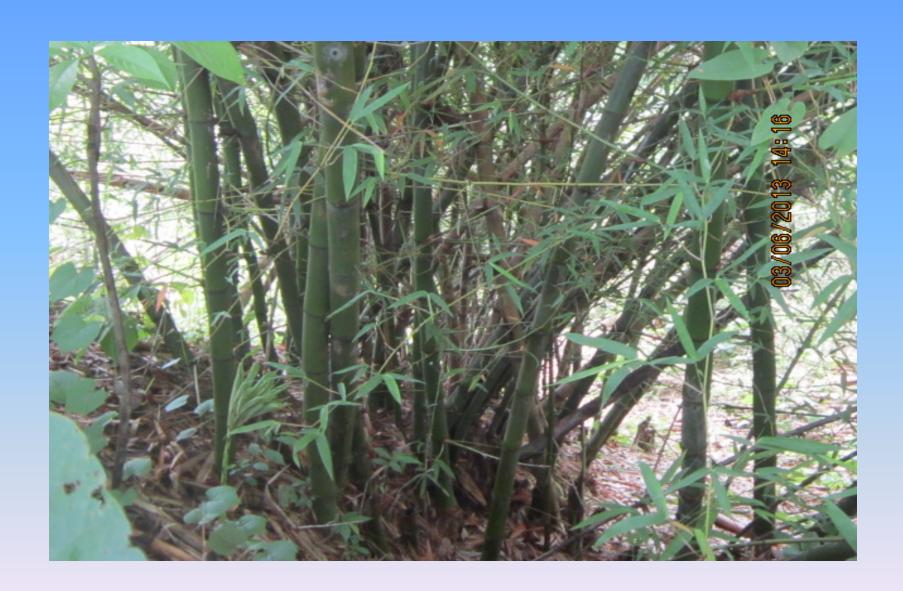


















Rice Husk Stove

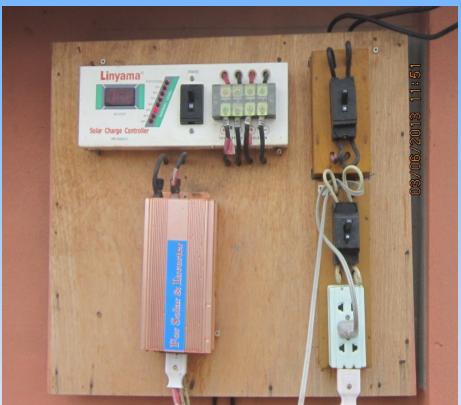


















4. Self Sustainability

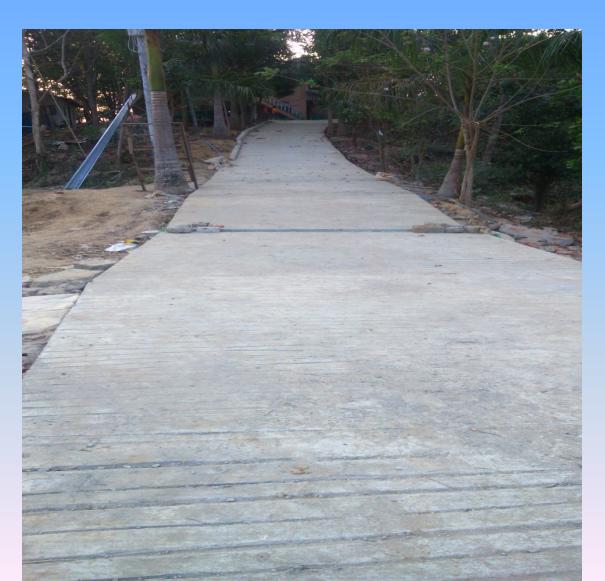
Infrastructures

- -Road
- -Building
- -Line Electricity

Income Generating

- -Trees nursery
- -Nepia Grass plantation
- -Seasonal Green Bean Cultivation
- -Moringa Plantation
- -Fish Farming
- Pig rearing
- -Organic Fertilizers Production
- -Trainings

Concrete road is connected to main road



Existing Training Room, Larger Training room is under construction



Sustainable Agriculture Training Institute Hmawbi, Yangon Myanmar

Thank You