



Asia Pacific Regional Consultation
**Role of Family Farming in the 21st Century:
Achieving the Zero Hunger Challenge by 2025**

August 7-10, 2014

M.S. Swaminathan Research Foundation
Chennai, India

2015
MSSRF



Peter ...

M.S. Swaminathan

Agri ...

M.S. Swaminathan

Forbes ...

Praveen Sharma

Reshma ...

Get ...

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ILIFAD
International
Livestock
Research
Institute for
Development

SFAC
Sustainable
Food
Action
Center



M.S. Swaminathan

Tor Due



LIFAD
Investing in rural people



Asia Pacific Regional Consultation Role of Family Farming in the 21st Century: Achieving the Zero Hunger Challenge by 2025

Aug 14-15, 2014

M.S. Swaminathan Research Foundation
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ICRC (CIRI)

Panel of ten participants seated on a stage during a consultation meeting. The participants include men and women in professional attire, some holding documents. The stage is decorated with a red carpet and floral arrangements.

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IFAD

IFAD

ICRDC

MSRF
IWF 2014







Asia Pacific Regional Consultation

Role of Family Farming in the 21st Century Achieving the Zero Hunger Challenge by 2030

August 7-10, 2014

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Chennai, India

IDRC CRDI

International Development Research Centre
Canadian International Development Research Corporation



United Nations
World Food Programme

UN WOMEN





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... of Family Farming in ...
Achieving the Zero Hunger Challenge

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IDRC
International Development Research Centre
Canadian International Development Agency

WFP
World Food Programme

WO



Asia Pacific Region
Role of Family Farming
Achieving the Zero Hunger Target

Appointed by
M.S. Swaminathan
Chairman

IDRC | CRDI
International Development Research Centre
Centre de recherches internationales en développement

WFP United Nations
World Food Programme

UN WOMEN

UKaid
from the British people



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Ramesh Thapa for MSSRF

for MSSRF

M.S. Swaminathan
Chairman of MSSRF

Torvalds



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India



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Chennai, India



R. Ramakrishna

Latha Pillai

S. Srinivasan

Rajarathnam

S. Aravamudan

S. Aravamudan

S. Aravamudan

MSS
IVFF 2014





Cooking gas & Liquid fertilizer from household waste

Kitchen



Waste water



Food & Veg. waste



- Fuelled : Min 1 kg - Max 5 kg/day
- Fuelled : Min 2 ltrs - Max 10 ltrs/day
- Height : 4 ft height X 4 ft dia
- Duration : 2.5 hrs - 3 hrs/day
- Output : 0.65 kg day equal to LPG
- Burner : Single burner
- Location : Roof top or near the house



Portable Biogas Unit - An Alternate for LPG

- ♦ Converting Bio waste into cooking gas
- ♦ Prevent the tendency of throwing waste into road
- ♦ Bio-slurry from this unit can be used as liquid fertilizer
- ♦ Helps the family to save min 10 cylinders/annum
- ♦ No fire or explosion when compared to LPG
- ♦ Reduces the emission of carbon into nature
- ♦ Pollution free environment

Biogas



Liquid fertilizer



Kitchen



Kitchen Garden



Earnings from veg.
 Various vegetables.
 Monthly income Rs. 2200/-

... on LPG
 ... only 2
 ... booked.
 ... Rs. 4220/yr.

Her profits include

fertilizer for kitchen garden: Slurry is used both as a fertilizer & pesticide. Saves Rs. 500/ month.

BIOVILLAGE - PILOT PROGRAMME

SOCIAL MAP SHOWING VINAYAGAMPET VILLAGE
RESIDENTIAL AREA WITH AGRICULTURAL LANDS
(REVENUE VILLAGE NO-II SORAPET) VILLIANUR TALUK
PUDUCHERRY DISTRICT

BIOVILLAGE

Human Centred
Development

VINAYAGAMPET

House Holds: 406
Cult i.Land: 314 ac



NRM & CPR



Village Activities



VILLAGE DEVELOPMENT COUNCIL



Agri. & Livestock



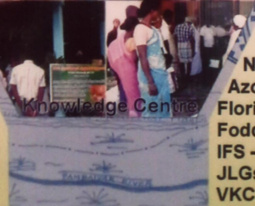
Water & Sanitation



Off Non farm Livelihoods



Social Forestry - 120 tree
plantings
Installation of Village Street
lights - 36 nos
Installation of Solid Waste
management bins - 10 nos
Introduction of Nutritious Cattle
feed - 500 kgs
Low cost Bio gas unit - 01



Knowledge Centre

Vermicompost unit - 05
Backyard poultry unit - 10
Nutritional Garden - 25
Azolla unit - 10
Floriculture - 05
Fodder - 08
IFS - 02
JLGs/ABGs - 15
VKC - Agri, Vet. & Health clinics





Consultation
in the 21st Century:
The Challenge by 2025
2014
Research Foundation
India

MSSRF
IVFF 2014

Panelists:
Prof. [Name]
[Name]
[Name]
[Name]
[Name]

From Kitchen to Kitchen

Cooking gas & Liquid fertilizer from household waste

Kitchen



Waste water



Food & Veg. waste



- Waste required : Min 1 kg - Max 5 kg/day
- Water required : Min 2 ltr - Max 10 ltr/day
- Plant Size : 4 ft height X 4 ft dia
- Cooking hours : 2.5 hrs - 3 hrs/day
- Gas : 0.65 kg/day equal to LPG
- Stove : Single burner
- Placement : Roof top or near the house

- Converting Bio waste into cooking gas
- Prevent the tendency of throwing waste into road
- Bio-slurry from this unit can be used as liquid fert.
- Helps the family to save min 10 cylinders/ annum
- No fire or explosion when compared to LPG
- Reduces the emission of carbon into nature
- Pollution free environment

Bio Gas



Portable Biogas Unit - An Alternate for LPG

Liquid fertilizer



Kitchen



Kitchen Garden



Savings on LPG
Since 1 year, only 2
LPGs were booked.
Savings of Rs. 4220/yr.

Earnings from veg.
Various vegetables.
Monthly income Rs.
2200/-

Her profits include

Savings on fertilizer for kitchen garden: Slurry is used both as a fertilizer & pesticide. Saves Rs. 500/ month.

From Kitchen to Kitchen

Cooking gas & Liquid fertilizer from household waste

Kitchen



Waste water



Food & Veg. waste



Min 1 kg - Max 5 kg/day
 Min 2 ltrs - Max 10 ltrs/day
 4 ft height X 4 ft dia
 2.5 hrs - 3 hrs/day
 0.85 kg/day equal to LPG
 Single burner
 Roof top or near the house

- ◆ Converting Bio waste into cooking gas
- ◆ Prevent the tendency of throwing waste into road
- ◆ Biogas from this unit can be used as liquid fertilizer
- ◆ Helps the family to save min 10 cylinders/ annum
- ◆ No fire or explosion when compared to LPG
- ◆ Reduces the emission of carbon into nature
- ◆ Pollution free environment



Portable Biogas Unit - An Alternate for LPG

Gas



Liquid fertilizer



Kitchen



Kitchen Garden



Earnings from veg.
 Various vegetables.
 Monthly income Rs. 2200/-

LPG
 12
 d.
 10/yr.

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Dr. M.S. Swaminathan
Bijay Kumar

Dr. M.S. Swaminathan
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Dr. M.S. Swaminathan
Bijay Kumar

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Bijay Kumar



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Farming in the 21st Century
Challenge by
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Hiroyuki Aonuma



NOVA
PHOTO ALBUM