



CGNF TECHNOLOGIES

Dr. Cho Han Kyu's

NATURAL FARMING

(CGNF)

SARRA India

For

Small & Marginal Farmers

WHAT IS NATURAL FARMING?

- NATURAL FARMERS DO NOT JUST LEAVE THEIR FARMS TO NATURE...
- THEY USE ALL THE KNOWLEDGE, TECHNIQUES AND PRODUCTS AVAILABLE (LOCALLY) TO WORK WITH NATURE.

**THE FARMER MUST CREATE A
HEALTHY BALANCE BETWEEN NATURE
AND FARMING, WHERE PLANTS AND
ANIMALS CAN GROW AND THRIVE**

TO BE A SUCCESSFUL NATURAL FARMER

must not see

- Every insect **As a pest**
- Every plant
(out of place) **As a weed**
- Every problem **Solution is chemicals**

➤ **Natural Farming is not** – Use of imported or artificial microorganisms

➤ **Natural Farming is** - Uses “indigenous” microorganisms (IMOs)

➤ **NF Benefits** - Safe, cheap, easy to make and very effective. It strengthens the crops without being affected from all kinds of weather.

- **Natural Farming is not** - Using more than 75% chemical fertilizers without considering if plant needs it
- **Natural Farming is** - Use of the Nutritive Cycle Theory
- **NF Benefits** - Nurtures and strengthens the crop in a natural way

Natural Farming is not - Mechanical tillage
(conventional farming plow deep)

Natural Farming is - Use of Nature's Tillers
(i.e. aerobic and anaerobic bacteria, fungus, earthworms, mole crickets and moles)

NF Benefits - Soil clusters that are lumped in aggregates are fostered, which will provide air and good water drainage, a good habitat for microorganisms.

- **Natural Farming is not** - Tilling land arduously every year
- **Natural Farming is** - Grass mulching as remedy for weeds (using brown rice vinegar)
- **NF Benefits** - Holds moisture, provide good habitat for microorganisms and prevent soil erosion. Using natural inputs helps dwarf the weeds.

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- **Natural Farming is not** - Expensive state-of-the-art technology needed for treatment facilities
- **Natural Farming is** - The use of microbes
- **NF Benefits** - All wastes are recycled and made use for cost-cutting techniques. The livestock housing itself is a waste treatment facility, fertilizer producer, and feed mixer.

- **Natural Farming is not - Planting more crops**
- **Natural Farming is - Planting with space**
- **NF Benefits - More yield because it emphasizes nutrients such as sunlight and air.**

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- **Natural Farming is not** - The use of pesticides to kill pests
- **Natural Farming is** - Use of natural inputs to “distract” the pests from the crops, i.e. fermented fruit juice (FFJ)
- **NF Benefits** - Pest attractants are placed away from the fruits to divert the pests. It is cheaper and focuses more on the co-existence and co-relation with the pests.

THE NATURAL FARMING RESPECTS

THE NATURAL CYCLE OF LIFE
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&

THE NUTRITIVE CYCLE THEORY

VEGETATIVE GROWTH STAGE

- The vegetative growth stage is the period when plants develop their body to the time when they mature.
- It is when plants convert Carbohydrates (C) into Nitrogen (N), which is their main growth requirement at this stage.

CROSS-OVER / CHANGEOVER / MORNING SICKNESS PERIOD

- This is the stage in which the plants begin preparation for reproduction.
- The term “morning sickness” is used for pregnant women who crave sour foods during pregnancy.
- The state of plants in the cross-over period also undergo this same phase in which they need Phosphorus (P).

REPRODUCTIVE GROWTH STAGE

- This is the period from flowering to ripening of the fruits.
- It is when the plant begins storing Carbohydrates in fruits or other storage organs (accumulative growth).
- At this stage, plants need a lot of Calcium(**Ca**) for proper color development of fruits.
- Potassium(**K**) is also needed.

THE NF TECHNOLOGIES

ARE HIGHLY-

- **SIMPLE**
- **ECONOMICAL**
- **PRACTICABLE**
- **REPLICABLE**

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AT THE SAME TIME...

➤ **INDIGENOUS**

➤ **INNOVATIVE**

➤ **FARMER CENTERED**

➤ **VIABLE ALTERNATIVES**

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NATURAL FARMING SYSTEM HAS THE GREAT POTENTIAL TO ...

- **Sustain people**
- **Sustain food security
and economic growth**
- **Sustain natural resources**

Thank You