

# Inhana Rational Farming (IRF) Technology



A comprehensive organic package of practice for Sustainability and  
**SAFE FOOD** - Our Common Ground and Universal Demand  
by

**INHANA ORGANIC RESEARCH FOUNDATION**







# A Philosophical Note on Inhana Rational Farming (IRF) Technology




## Philosophical Thought Process is Universal.

In France, F. Chaboussou thought about Healthy Plants against the popular beliefs on chemical way of crop cultivation. Miles away in India, Dr. P. Das Biswas, an Indian Scientist; researched to re-establish two lost qualities of the plant kingdom i.e., Self- Nourishment & Self- Protection.

Both the visionary men thought about development of Healthy Plant for amelioration of causative factors behind plant signaling towards higher pest/disease infestation. They concluded that alleviation of biotic and abiotic factors, which depress plant metabolism require a prolonged step wise programme and might not be still completely manageable.

On the other hand focusing on plant management to activate plants' metabolic processes along with other curative measures can deliver time bound results in terms of lowering of pest pressure, thereby pesticides use; and lead towards crop sustenance.



**Self- Nourishment for growth and Self- Protection from pest/disease are two sides of the same coin-**  
The inherent **Quality of Healthy Plants**





# Inhana Rational Farming (IRF) Technology – *A Silent Revolution*



In the race of globalization where international agro research and development corporations want to patent seeds, crops or life forms, Dr. P. Das Biswas, initiated an effort to protect Biodiversity and promote Scientific Organic Farming.

His constant effort to provide Toxicity Free Environment for Healthy Food Production laid the foundation for **Inhana Rational Farming (IRF) Technology – An unique blend of Ancient Wisdom and Modern Science.**





# ... Inhana Rational Farming (IRF) Technology – *A pathway for Ecologically & Economically Sustainable Organic Agriculture*

"IRF Technology bears the essence of 'Trophobiosis Theory' of French Scientist F. Chaboussou, which puts emphasis on 'Healthy Plants' and affirms that 'Pest Starve on Healthy Plants'.

The **brilliance** of IRF Technology is that it shows the pathway for resource regeneration and establishment of plant resilience; eventually leading to **Energy Efficient, Climate Smart Agriculture**, where the '**Energy Solutions**' act as vehicles for ensuring the objective."

**Dr. P. Das Biswas is the Pioneer of  
Scientific Organic Farming,  
encompassing Indian Tea.**

-- Dr. D. Mazumdar (Ex. Vice Chancellor, UBKV, West Bengal)







# Inhana Rational Farming (IRF) Technology – *The Journey*

**Effective**  
**Complete**  
**Convenient**  
**Economical**  
**Safe**

Dr. Das Biswas's in-depth research on Vedic Philosophy for last two decades and its logical sublimation with Modern Science revealed that the **Elements** are essential components of all living beings and responsible for equilibrium in plant functioning. They are Not deficient, just de-activated under chemical bombardment.

But there is scope for Re-activation of elements; provided a process of **ENERGY INFUSION** is adopted. This led to development of '**Energy Solutions**' in the backdrop of **Element-Energy-Activation (E.E.A.) Principle**, which provided cure for individual problems related to soil and plant.

. . . . Inhana Rational Farming Technology enabled World's 1<sup>st</sup> Ever Carbon Neutral Tea Estate

But it was soon realized that for Sustainable Agriculture a **Composite Approach** towards '**Soil**' and '**Plant**' for **Systemic Relief**; will be requisite. And IRF Technology was developed to affirm this science.

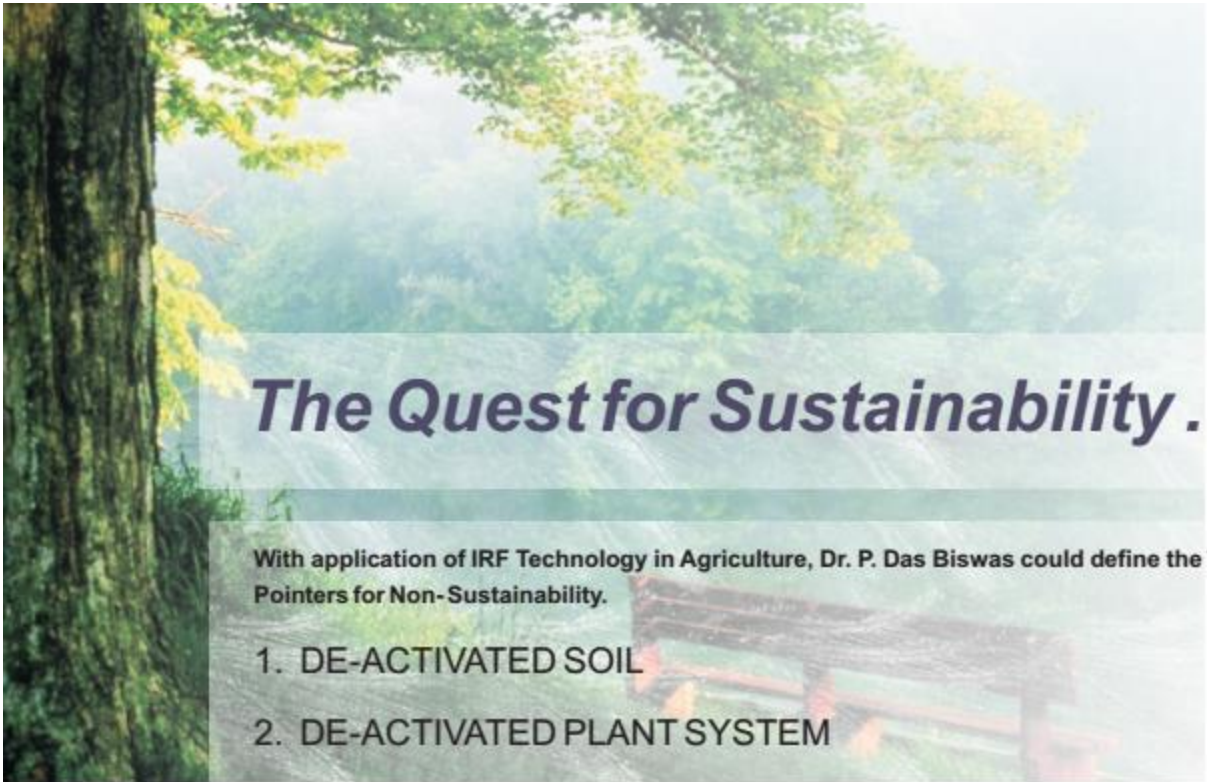
*IRF Technology is perhaps the only method so far that exhibits full compliance to all the five components deemed necessary for large scale adoption.*



**CO<sub>2</sub> neutral**  
calculated according to GHG Protocol  
soilandmore.com







# *The Quest for Sustainability . . .*

With application of IRF Technology in Agriculture, Dr. P. Das Biswas could define the Two Pointers for Non-Sustainability.

1. DE-ACTIVATED SOIL
2. DE-ACTIVATED PLANT SYSTEM

Hence IRF Technology was tuned to RE-ACTIVATE SOIL & PLANT SYSTEM by just infusing the Required ENERGIES.

He developed Novcom Composting Method (21 days Biodegradation Process) that produces Quality Compost with rich self-generated microflora ( $10^{16}$  c.f.u./gm compost)

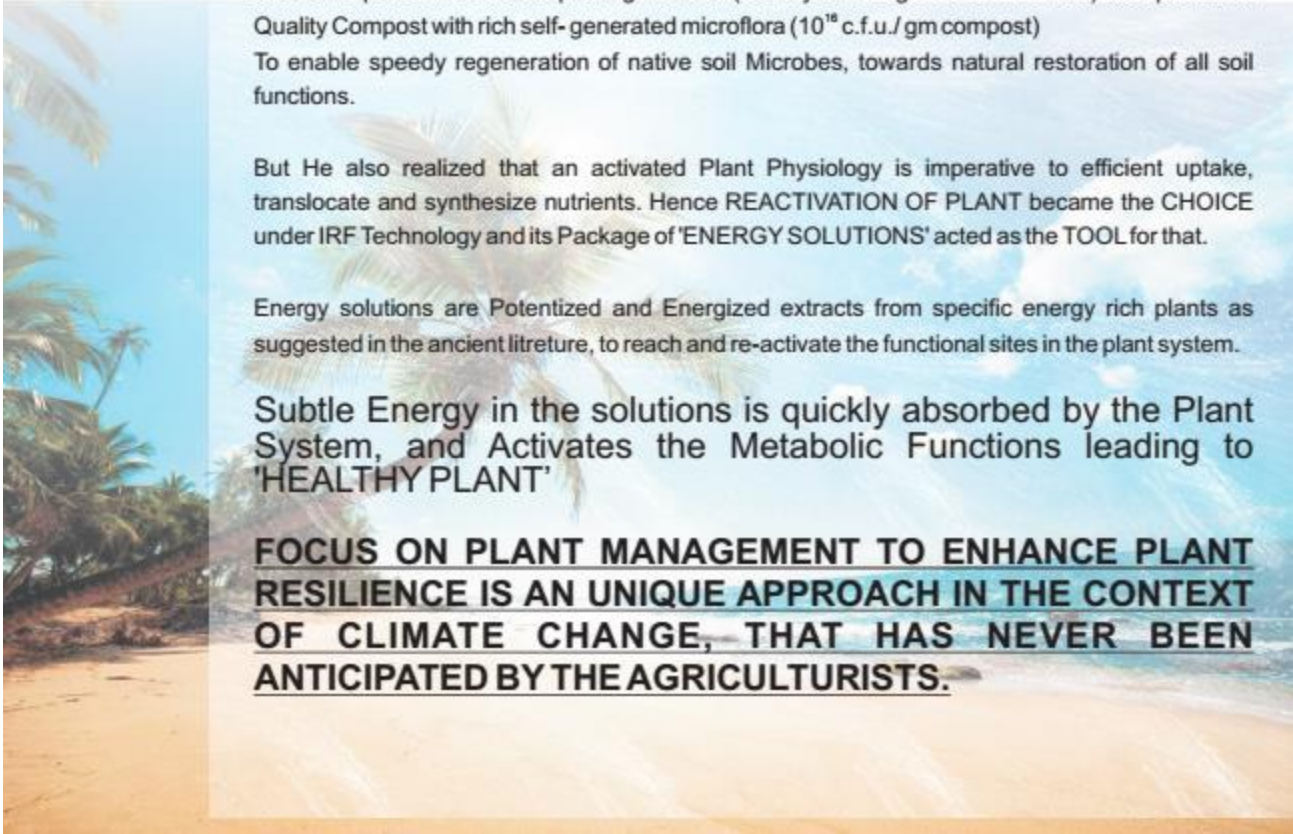
To enable speedy regeneration of native soil Microbes, towards natural restoration of all soil functions.

But He also realized that an activated Plant Physiology is imperative to efficient uptake, translocate and synthesize nutrients. Hence REACTIVATION OF PLANT became the CHOICE under IRF Technology and its Package of 'ENERGY SOLUTIONS' acted as the TOOL for that.

Energy solutions are Potentized and Energized extracts from specific energy rich plants as suggested in the ancient literature, to reach and re-activate the functional sites in the plant system.

Subtle Energy in the solutions is quickly absorbed by the Plant System, and Activates the Metabolic Functions leading to 'HEALTHY PLANT'

**FOCUS ON PLANT MANAGEMENT TO ENHANCE PLANT RESILIENCE IS AN UNIQUE APPROACH IN THE CONTEXT OF CLIMATE CHANGE, THAT HAS NEVER BEEN ANTICIPATED BY THE AGRICULTURISTS.**





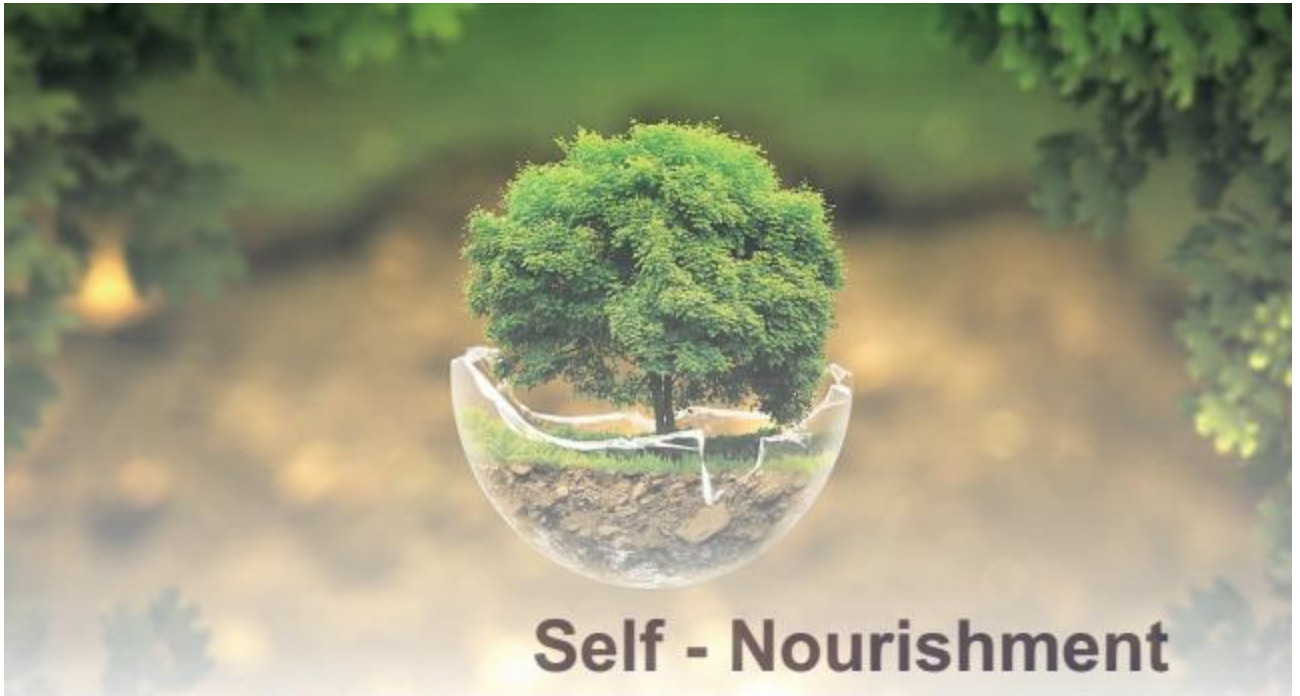


# **IRF Technology- *The fidus Achates in the Journey towards Sustainability***

**IRF Technology** works on '**Element Energy Activation (E.E.A.) Principle**' for attending two basic mechanisms of plant system, i.e.

- (i) Self- Nourishment**
- (ii) Self- Protection**





## Self - Nourishment

Five basic elements (Panchamahabhutas) Soil, Air, Water, Fire and Space take care of nourishment. The individual element responsible for specific mechanism of nourishment are as follows:



### **Earth**

Nutrition and structure formation.

### **Water**

Transportation of nutrients and transpiration.

### **Fire**

Metabolism, ripening of fruits and photosynthesis.

### **Air**

Respiration.

### **Space**

Making space for bio-chemical reactions and growth of plant.





## Self - Protection

The self-defense mechanism is controlled by five different **Life Forces** or **Prana-Shaktis**. Their roles in the plant system are as follows:

### **Apana Prana**

Controls the function of root extraction of nutrients.

### **Samana Prana**

Controls transpiration.

### **Udana Prana**

Controls photosynthesis and secretion of enzymes, hormones.

### **Prana Prana**

Controls respiration & eases movement of respiratory products.

### **Vyana Prana**

Makes space available for all functions.

If there is any imbalance in sub-functions like **Transportation**, **Circulation**, **Metabolism** etc., then the whole system tries to protect itself with the added Energy if provided at the right time.





## The Journey was initiated in Tea and now covers every item of the Food Basket . . . .

The journey began with Tea in 2001, in West Jalinga T.E., largest organic tea estate in Assam; and has demonstrated 'Sustainable Organic' and 'Carbon Neutral' teas for last 15 years.

FAO-CFC-TBI Project (2008 -2011) at Maud T.E. scientifically validated IRF Technology as an Effective and Economic Organic Package of Practice for Tea Cultivation and Soil Quality Development.

**IRF TECHNOLOGY IS SCIENTIFIC YET MOST CONVENIENT METHOD FOR ORGANIC CROP PRODUCTION THAT ENABLES HIGH CROP PERFORMANCE AND SPEEDY SOIL QUALITY REJUVENATION AT LOWEST ECONOMICS.**

..... **Prof. A. K. Barik**  
(Head, Dept. of Agronomy, Visva Bharati)







## IORF Origin

**Inhana Organic Research Foundation (IORF)** was formed to disseminate the Research Findings of **Inhana Biosciences** among Farming Community to enable Sustained, Safe Food Production and Economic Prosperity.



## IORF Mission . . . .

Committed to reach out directly to the farmers without the dependence on conventional dissemination / distribution process in order to enable them the benefits of cost.



To initiate joint venture with Government Bodies or Authority Supreme and work on PPP model or as the Technology Provider.

To undertake training and development of case studies of inventions/ innovations of new medicines and formulae for tea and other consumable agri-horti crops.



To undertake research and make publications on the Science of organic farming as well as develop tools, indices required for documentation, validation and assessment of any agricultural practice.



# *IN HArmony with NAture*



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