Climate Positive Agriculture

Modern agriculture has changed dramatically since the end of World War II and food productivity has increased with new agro-technologies, farm mechanization, increased chemical inputs in terms of chemical fertilizer and pesticides, development of irrigation systems to bring more land under irrigation and government policies that favored maximizing production. But the development has come at a significant cost. Prominent among these are topsoil depletion, groundwater contamination, air pollution, greenhouse gas emissions, decline of family farms, neglect of living and working conditions of farm laborers, new threats to human health due to spread of new pathogens, economic concentration in food and agricultural industries, and disintegration of rural communities.

This was the background behind IORF's Clean Food Initiative – a practical demonstration of Climate Positive Agriculture. It is a program for Empowerment of our Small and Marginal farming Community, but above all; it is an initiative that provides Safe and Sustainable Food – at Affordable Cost; through the adoption of a scientific, comprehensive and nature friendly farming pathway called Inhana Rational Farming (IRF) Technology developed by Dr. P. Das Biswas – Pioneer of Sustainable Organic Tea Cultivation in India. The 'Clean Food' concept was developed by IORF in concurrence with the Global Call "No Food Security without Food Safety". Thus 'Clean Food' is the End product of Safe & Sustainable Agriculture towards Empowerment of the Small and Marginal farmers and Preservation of our Environment in the back drop of Climate Change.

Sustenance of Crop Yields while Eliminating the use of Synthetic Pesticides, irrespective of the Climatic aberrations, and without raising the Cost of Production, are the facets of this Model that exemplify **Safe and Sustainable Agriculture** through **'CLEAN FOOD'** production, which is **critically relevant w.r.t. Target 2.4 of SDG-2 (***Sustainable Food Production and Resilient Agricultural Practices)*; especially considering UN's statement, "It is currently not clear or well defined what constitutes productive and sustainable agricultural practice". Achievement of these seemingly unattainable targets under this Model is consummated through Inhana Plant Health Management, which marks an epoch in the History of Agriculture that still operates on the concept 'Feed the Soil to feed the Plant'.

This is the First ever Model that Demonstrates **Climate Resilient Agriculture** and can TRANSFORM GHG Emitting Conventional Agriculture ($1/6^{th}$ of total Global GHG emission) to GHG OMITTING Safe & Sustainable Agriculture – through GHG OMISSION, ARREST and CAPTURE at a Time; and fulfill the objectivities of SDG-13. This is the 1^{st} ever Model that can open up the SCOPE to bridge the Corporate Sector as well as Resource Poor Food Growers; towards their respective goals of NET ZERO Attainment and Sustainable Livelihoods.