Integrated Agri Business Model
for Sustainable Agriculture and Livelihood

Sampurn Agri Ventures
Private Limited
Punjab, India

The Food Basket of India
Green Revolution
Paddy and Wheat Rotation
Arrival of subsidized Chemical Fertilizers
Flooding of low line areas
Over the years we have polluted Air, Soil and water leading to Uncultivable Land. Nations have Godowns full of food but Farmer’s houses are empty.
Burning of crop residue
Destroys essential nutrients
Damaging Environment
Paddy straw burning resulting in smog and pollution up till Delhi
Integrated Agri Business Model
For Sustainable Agriculture
and
Sustainable Livelihood
Integrated Agri Business Model
Optimum Productivity . Multiple Benefits
BIO-FERTILIZER

Compost & Slurry

Important Allied bi-product

- Improves Crop Productivity & Quality
- Better Impact on Public Health
- Optimum use of Water for agriculture
Unique properties of Paddy Straw Manure for sustainable agriculture
Prevents arsenic and other carcinogenic elements uptake into grains particularly rice.
Provides draught resistance to plants and can lead to 40% saving of water.
Provides resistance to sheath blight, fungal brown spot, fungal rice blast, rice leaf folder, stem borer and plant hoppers.
It also enhances UV tolerance and adapt to global warming.

Ultimately, if silicon can be more efficiently recycled and plants bred for high silicon content, considerably improve yields of high quality grain will be achieved along with decreased requirements for pesticide usage. High silicon rice is better adapted to the biotic and abiotic stresses that climate change will bring, Optimization of silicon’s biogeochemical cycling in paddy environments is, therefore, on all accounts, a good long-term agricultural policy with great potential benefit to the global economy.
VISIBLE IMPACT

20%

AVERAGE INCREASE IN CROP YIELD & REDUCES COST OF CULTIVATION
For commercial viability following need to be addressed

1. Limitation on movement of bio-mass.
2. Promotion and use of manure.
3. Transfer of bio-cng.
4. Logistics have to be worked out for commercial viability.
5. We need to be energy positive.
6. Working on value addition of slurry.
7. Use and value of slurry is the key to success.
For the commercial viability of the entire business model we propose

1. Capacity of the plant should be based on bio-mass available within 5 to 10 km.
2. Create demand of bio-cng and slurry as close to the project as possible.
3. Technology should be suitable for operation in rural areas.

By replacing fossil fuel with bio-CNG from crop residue, We CAN transform rural India along with Environment
A Sampurn initiative where farmers and entrepreneurs shall create a profitable partnership for mutual benefit for the economic development of INDIA.