

SYNERGISTIC BLENDING OF TECHNOLOGY OF “ARTIFICIAL IONIZATION” FOR CONSTRUCTIVE CROP MUTATION FOR DEVELOPMENT NOVEL ADVANCED HYBRID AGRICULTURAL PRODUCTS

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THEME

- Nuclear and Related analytical techniques in environmental and Material sciences

Abstract

This Proposed Paper is to scientifically present the High significance of “Ionization” Process for unique Edible Crop Products, mentioned in Book named “Manual of Ornithology” dated 1864. Paper will explain in details the significance of making “Advance Hybrid” of crop and vegetables by help of “Ionization” to solve the major of “Food Crisis”. These crops and edibles are highly adaptable to the Environment which are yet to be developed. “Artificial Ionization” is a Stem of “Ethical and Peaceful Use of Nuclear Energy”.

KEYWORDS

- “Constructive Crop mutation”.
- “Artificial Ionization”.
- “Sustainability by Ionization of Agricultural Products”.

AIM

- To introduce the highly significant technology of “Crop Mutation by Ionization” to the population.
- To Satisfy the Food Demands of Growing Population worldwide.

RESEARCH METHODOLOGY

- Primary Data Collection from Books of Library of Bihar and Odhisa Research Society, Patna Museum Campus, Patna, Bihar. (With Official Permission) (Please Refer Enclosure_A and Enclosure_B)
- Significance is to “Explore the Methods” which were traditionally used when Technology was in Nascent Stage.
- Secondary Source are Taken from Online Resources.

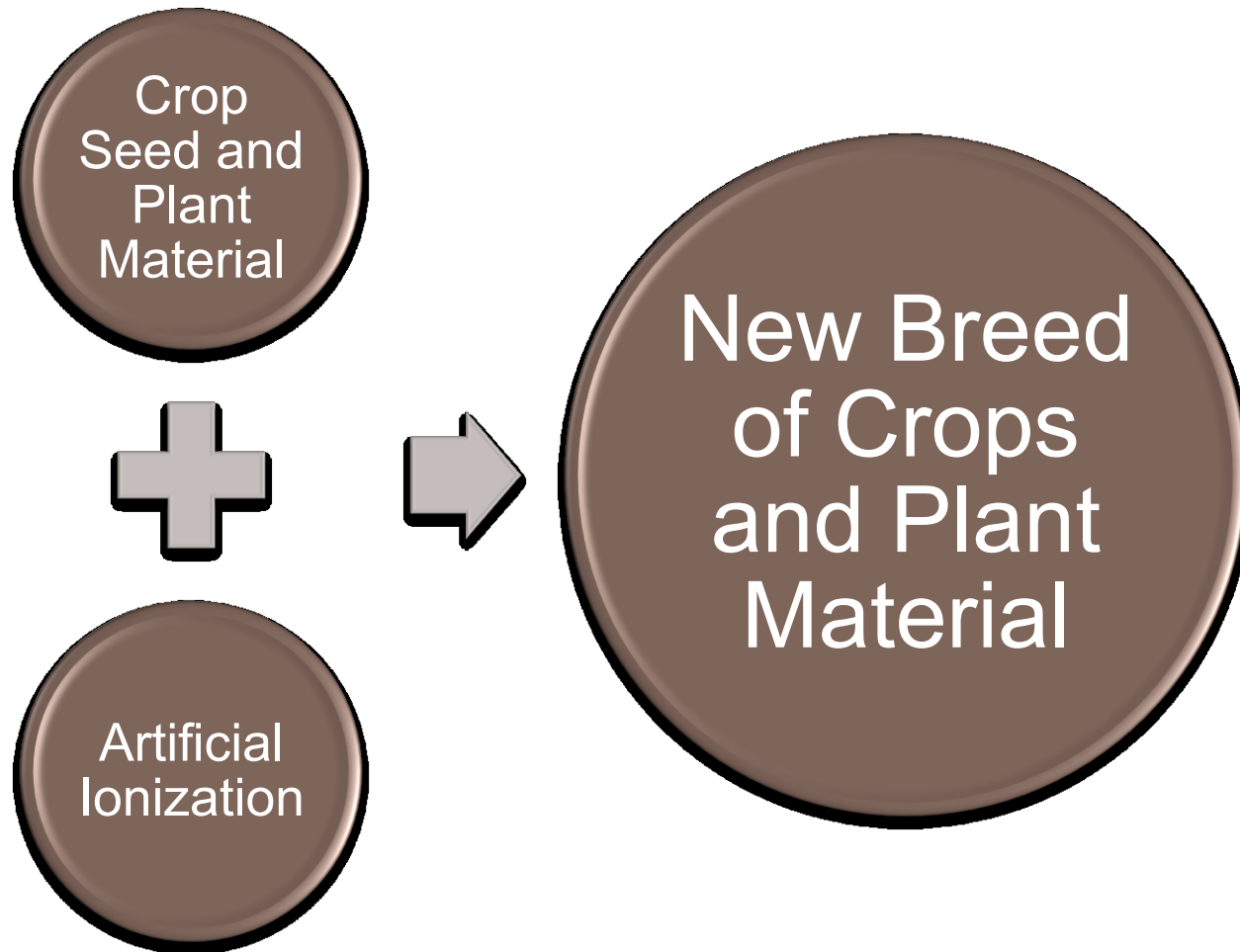
SCIENTIFIC RATIONALE

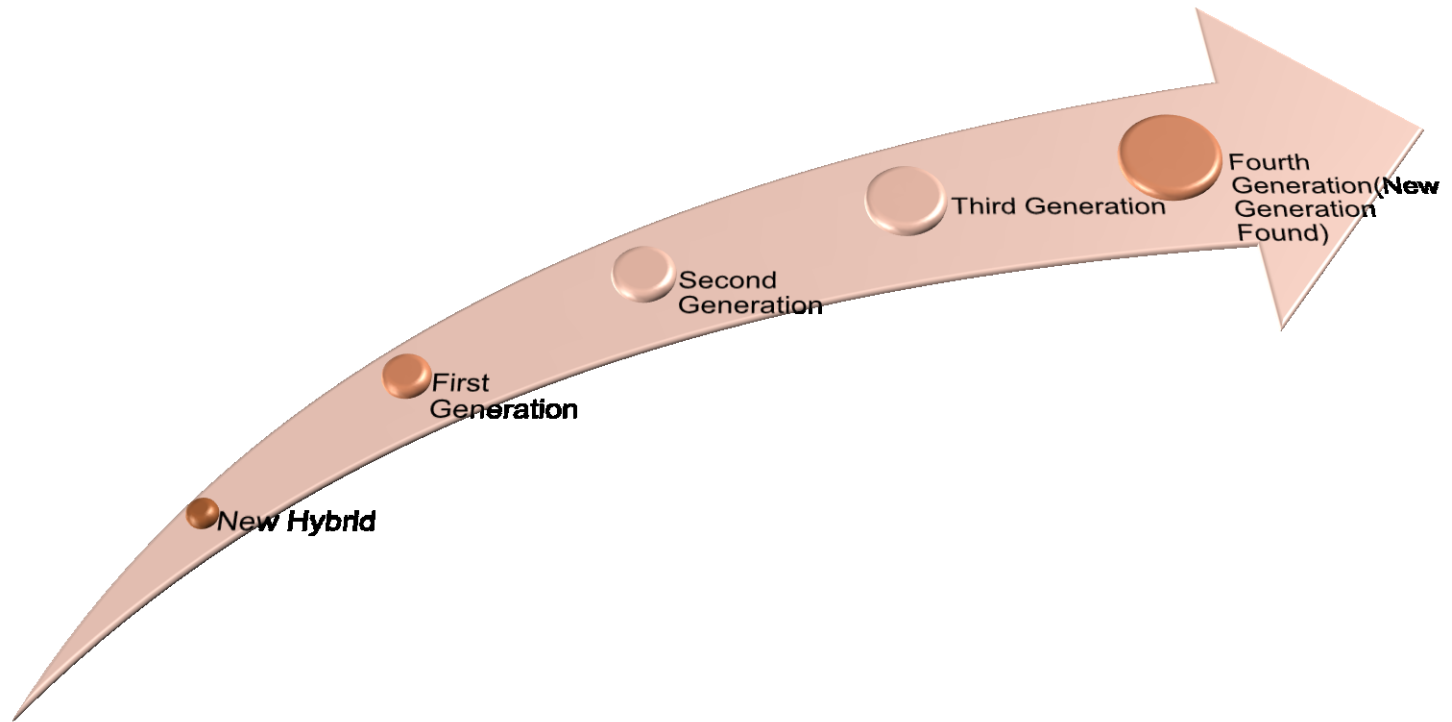
- Generally only a very few natural mutation somehow survive and adapt as per environment. Or even may collapse. It takes time from years to centuries for Mother Nature to give birth to a new mutated offspring of crops and staples.
- Artificial Ionization is capable of beneficiation mutation and with help of same “**Constructive crop mutation**” to produce “**Uniform Breeding Material**” without damaging to soil and environment.
- These mutations survive against environmental odds as temperature, heat, flood, drought etc.
- These Mutation of seeds are highly successful tools in Global Agricultural Scenario to combat Food Crisis and supplying the “Food with Nutritional Value”.
- A Few very Rare Crops, Vegetables and Birds are mentioned in the Book which are not widely used due as Food Consumption, due to less production and low sustainability rate against environment. Such Crop, Vegetables and Birds needs to be highly enhanced for providing “Massive Nutrition in Food” in large scale, by help of “Artificial Ionization.(One of such Endangered Species of Bird is “Yellow Brested Bunt” as it helps a lot in sorting out insects from Paddy. Also the Bird have high nutrition value as a Polultry Food Product. And this Bird is dependent on certain special breed of rice grains

HOW ARTIFICIAL IONIZATION WORKS

- Seeds and Other Plant Materials are Exposed to Ionizing Radiations.
- The seeds and plant materials are grown for 2-4 generations until new “Characteristic Traits” are found.
- Once identified, seeds and plant material are again grown for few more generations to develop uniform breeding material.
- Advanced Breed are Tested in field and tested and then approved as Per “Law of Land” and then sold to Farmers and Agriculturists.

PICTORIAL REPRESENTATION





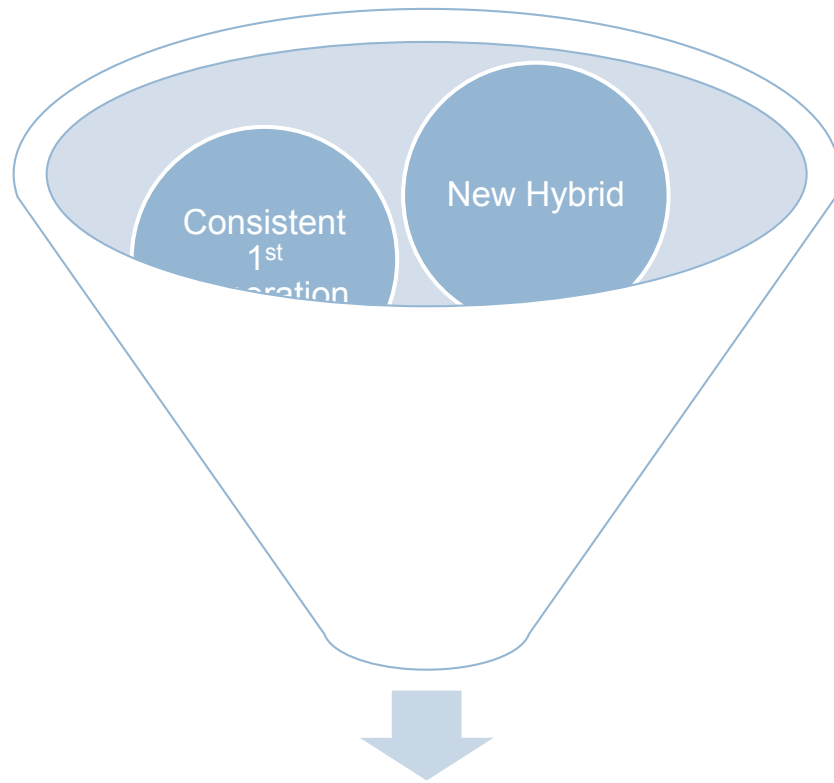
New Hybrid

First
Generation

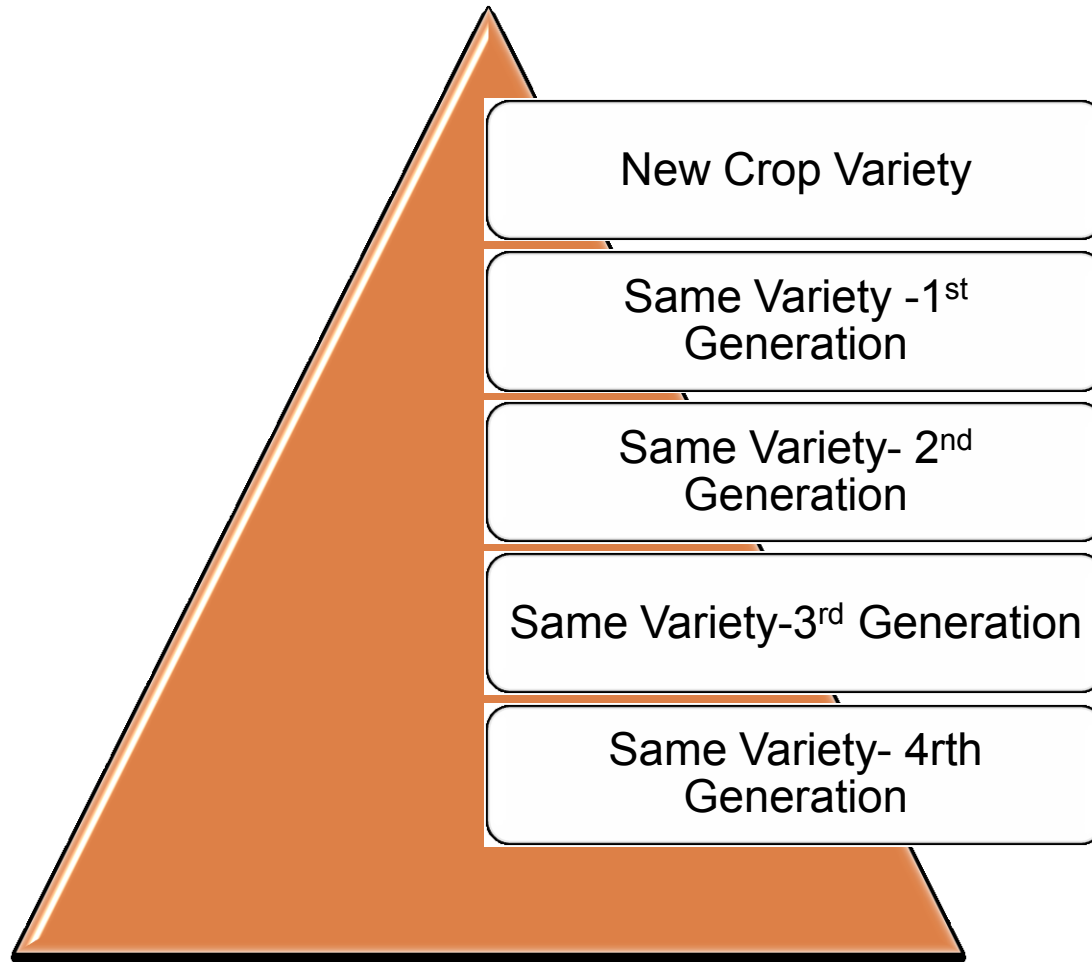
Second
Generation

Third Generation

Fourth
Generation (**New**
Generation Found)



Consistent 3rd Generation



Licence to
Sell to
Farmers as
Per Law of
Land

Procurement
by Farmers

Crop and
Vegetable
Farming.

High Yeilding
of Crops
from Mutant
Seeds by
Ionization

FINDINGS

- Thousands of Nutritious Novel Crop Varieties has been developed by help of “Artificial Ionization” benefiting million dollars to agriculturist.
- A Few Successful Examples of Hybrid Rice are “Pant Shankar Dhan-2,” “ProAgro-6646” “Basmati-80”, “Cenna Rice”. For Hybrid Wheat is “Rojo-64”, Sonalika.
- For Vegetables a few are “Arka Vikas”(Tomato), “Arka Anand(Brinjal):, “Arka Lohit”(Chilli), “Ark Manik(Watermelon)”, “Arka Suryemukhi(Pumpkin).

FUTURE SCOPE

- A number of crops rich in nutrition can be made more “Advance Hybrid” genre for agricultural development by “**Artificial Ionization**”. These crops are available and yet to be developed.

Enclosure_A

To,
The Additional Director,
Patna Museum,
Buddha Marg, Patna,
Bihar-800001



Remission granted
-Exp
08.01.20

Subject:- Application for Grant of Permission for Data Collection.

Respected Madam/Sir,

At the very outset please do accept my warm greetings and regards with protocols.

I would like to extend my sincere request to you for your kind grant of permission, for the data collection from Patna Museum's Library from 06-01-2021(Sixth Day of January, 2021) to 14-01-2021(Fourteenth Day of January 2021).

The requested grant of permission for data collection is to be done for framing text of various peer reviewed impact factor national and international journals, global index directories and few Selected Conferences.

The details of collected data will be submitted with a compliance report, once the data collection work is completed. As well as an official Acknowledgement of the collected data with proper referencing, will be attached in all the referred journals, global index directories and selected conferences.

Looking forward for your kind grant of permission for data collection.

Yours Faithfully,

(Abhinav)

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Enclosure:-

- 1) A Self-attested Photocopy of AADHAR Card of myself for photo identity proof.

Enclosure_B

