

Annual Report

(F.Y 2020-21)



GROWING SEED

Dharmanagar,
North Tripura- 799251
www.growingseed.in

With reference to

In the year 2011 following their high school graduation, a group of youths resolved to do something to serve society in some way. As a result, they formed a group and dubbed it "Growing Seed," after the seed that would ultimately develop into a big tree. To combat prejudice and superstition, they began with a minor social awareness campaign, as well as a modern and scientific thinking campaign. Later, other activities were added, such as free medical camps, blood donation camps, assisting underprivileged students and children, and cultural events. People were transitioning from books and print media to social media during this time. Culture and literature were being pushed to the sidelines. As a result, the Growing Seed began producing Uttaran, an annual cultural magazine, to encourage young people to engage in creative writing and reading. Because of their unconventional approach to change, the Growing Seed organisation became highly famous in Tripura in a short period of time. Growing Seed, although being a registered social organisation, is a very dynamic organisation with many distinct characteristics from traditional non-governmental groups (registered under society registration act 1860).

Growing Seed is a registered non-political, non-profit social organization established in 30th March 2011 and got registered in the year 2013. The idea was to do some activities related to science and public awareness which will help the people. In initial days Growing Seed used to demonstrate science and superstition related demonstration and health as well as blood donation camps. Later Growing Seed took other activities based on science and social welfare. Growing Seed currently organizes different social awareness camps on monthly basis in different parts of the state of Tripura.

A group of ants can carry foods that is around hundreds time bigger than their size, but they don't carry a piece of paper sometimes similar to their size!

This happens because of their intentions, likewise we, the human has the supremacy to do whatever thing in this world but it needs our aspiration and priority

--- Punam Bhattacharjee

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Administrative setup

The major driving factor behind the new yet well-established organisation is young, active, and educated dynamic youngsters. Within the organisation, we have a diverse knowledge centre that includes everything from teachers to scientists. Despite the fact that we have a financial support problem, we are nevertheless able to carry out our operations due to our strong intentions and excellent people resources. However, we, the members of Growing Seed organisation, always have equal rights and duties, as per our concept "Amra Sobai Raja." Nonetheless, we must create a governing body in accordance with procedure for formal purposes; the members of the executive body have been formed as per the guidelines.

Under the best of circumstances, boards of directors do the strategic planning and decision-making for the organization according to the mission, vision and values of the organization. The reality is that it's not always practical for boards, especially large boards, to gather in person to take some necessary action. An executive committee is a smaller group with close ties through leadership who can get together, often with little notice, to address pressing issues that affect the organization substantially, such as an emerging crisis. The executive committee has the power to act on behalf of the full board.

The executive committee is a standing committee that often acts as a steering committee for the full board. Functioning as a steering committee, the executive committee prioritizes issues for the full board to address. Although the executive committee comprises senior-level leaders, the committee members report to the board.

Glimpse of the Year



COVID-19 has created a powerful flaming platform for change in many unanticipated sectors, with many organizations including us, struggling or simply unable to cope with the rate of change they have faced. Organizations have been forced to modify how they do business, and with the majority of employees

working remotely or from home, business procedures have had to adapt quickly in order to stay afloat. In this essay, we'll look at some of those





consequences, as well as how businesses have increased their use of change management to cope with the new normal.

However the energetic workforce of

the Growing Seed organization is un-stoppable in any circumstances, we are always ready to find our opportunity in every challenging situation. Considering the global pandemic situation this year our activities had been carried out by strictly following the guidelines by the MoHFW, Government of India. Our main motto in this situation was to provide our ultimate effort to combat against the disease and also the economic crisis happened by this lockdown situation.

We always try to understand the need of the society this particular ability makes us an appropriate platform for social service. Though the year was a crucial period, besides we have carried out numerous activities for social need ranging from health awareness and support, agricultural developmental activity, cultural activities, social awareness and service, research and development etc.

This year also brings some blissful achievements for the organization as we have received several external supports to carry out several activities. And we have organized quite a few collaborative proceedings along with numerous local and national institutions.

A GREED TO ATTAIN HAZARD FREE COMMUNITY HEALTH



the time of initiation, one of our prime focuses is to develop the society through medical support.

It is a fact that after so many years of our freedom

“It is health that is real wealth and not pieces of gold and silver”

- Mahatma Gandhi

we are still underprivileged in terms of medical facilities in rural

A nation won't be developed without its healthy and happy people. The main driving force behind a society is its physical and mental healthy people. From





areas. Tripura is a small and hilly state and around 75% of the state is rural areas, moreover till date medical facilities are in developing condition in the urban areas of the state, and in case of rural areas we need to work hard to provide facilities. Considering this vital situation; numbers of short events has been carried out by our organization to the different parts of the state. The program includes mega health camps in rural areas, health awareness events, body checkups etc.

Our prime strength is our diverse resources; we have people having professional background in our team. We have a number of medical professionals in our team and for this reason, round the



year medical services are available in our organization on need basis.

During our health camps we have included the District Health and

Family Welfare Society- North Tripura, Government of Tripura. We have received quite a few supports from the health department including specialized doctors, medical staffs, medicines etc. More than 300+ people from

different location of the districts took the facility of medical service, it is very delightful experience that there are many women and child including specially abled people also get benefitted by our health services during this year.





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GROWING SEED: A PLACE OF AGRICULTURE & ALLIED INNOVATIONS

For around 58 percent of India's population, agriculture is their major source of income. Agriculture, forestry, and fishery had a Gross Value Added of Rs. 19.48 lakh crore (US\$ 276.37 billion) in FY20. In FY20, agricultural and allied industries accounted for 17.8% of India's gross value added (GVA) at current prices. Consumer expenditure in India would increase by as much as 6.6 percent in 2021, following a pandemic-driven drop.

Due to its enormous potential for value addition, notably in the food processing industry, the Indian food industry is set for massive expansion, increasing its contribution to world food commerce every year. The Indian food and grocery market is the sixth largest in the world, with retail accounting for 70% of total sales. The Indian food processing sector, which accounts for 32 percent of the country's overall food market and is rated fifth in terms of production, consumption,





export, and predicted growth, is one of the country's major industries.

Tripura is one of India's seven sisters in the north-eastern region. It is one of the greatest sites in India for

agricultural activity due to its vast biodiversity and astonishing natural resources.

Around 98 percent of the state's farmers have tiny or marginal landholdings, making modern agricultural methods including judicious use of sustainable practices the sole means to supplement their income.

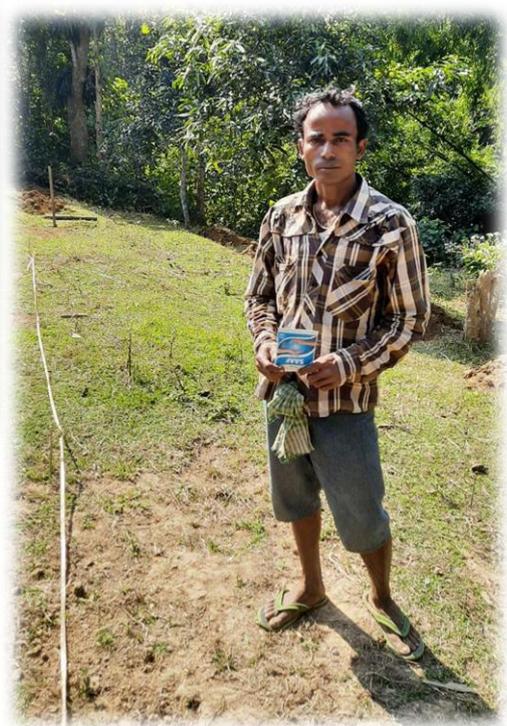
Several promotional activities including training programs have been organized

throughout the year to fulfill the farmer's needs of the state. Different crop varieties has been introduced to mitigate the hidden nutritional hunger and also to uplift the



livelihood of the rural people. Bamboo is one of the major natural resources of the state and there are huge prospect of bamboo based livelihood to the state; considering this situation we have taken several training and promotional activities in collaboration with FRCLE, Agartala all the way through the year. Fisheries is an integral sector in the state as well as the country in terms of human nutrition and livelihood; we have carried out promotional activities and meetings with the fish farmers for their capacity building and cluster based livelihood generation.





G.S Research: Exploring Knowledge



G.S Research is one of the primary branches of the Growing Seed organisation. As an amalgamation of recent research breakthroughs, the wing was made for a social welfare effort. The wing is steadily rising, accumulating a wide range of research and development dimensions. GS Research conducts investigations and collaborates with other significant research organisations to disseminate their findings in real time throughout society. Our present study focuses (but is not limited to) agricultural and natural resource conservation, ecological resilience, and public

awareness. Our research is guided by real-world events and local considerations. Growing Seed is a non-profit enterprise; rather than being exceedingly efficient and punctual, our research and development activities are not hampered by "red tape." Although, we do not have established working hours or vacations in order to maintain workplace objectives. Our R&D team is enthusiastic about their work and maintains a culture of free debate and criticism. Together, we aspire and work for a brighter future!



Organized By:
Growing Seed
 Chandrapur, Dharmanagar,
 North Tripura-799251
 www.growingseed.in

**30th & 31st May
2020**

LIVE WEBINAR ON

SELF SUFFICIENT AGRICULTURE: NEW APPROACHES
 (Inspired by- Atma Nirbhar Bharat Abhiyan)

SPEAKERS:	TOPICS:
 <p>Dr. Bipin Kumar Scientist, Water technology Center ICAR- IARI, New Delhi</p>	<p><i>"Rainwater Harvesting and Utilization: An Effective measure to Enhance Farm Income in Hilly Areas"</i></p> <p>Date and Time: 30/5/2020 at 3.30 PM</p>
 <p>Dr. Rakesh Kumar Principal Scientist, Agronomy Section, ICAR- NDRI, Karnal</p>	<p><i>"Round the Year Fodder Production and Conservation: A Methodological Approach for Livestock Farming"</i></p> <p>Date and Time: 31/5/2020 at 3.30 PM</p>

varietal adaptability trial for a newly developed bottle gourd variety and tropical apple varieties in different parts of the state Tripura. As a part of agricultural research

This year, we conducted a number of research projects during the course of the year, all of which were constrained by a number of factors.

We have conducted field trial on "Performance of Maize under Different Manure Incorporation and Modified Panchagabya Formulation" this initiative is to find out the alternative source of judicial management of municipal waste for promotion of organic agricultural practices for sustainable livelihood development. We have conducted

education, we are supporting a monthly e-magazine called Science for Agriculture and Allied Sector. The prime focus of this initiative is to provide available resource to the farmers to carry out modern agricultural and allied sciences activities. A national level webinar has been carried out to provide an exposure to the different stakeholders about systematic fodder production and water management to the field, invited speech has been delivered by the eminent scientist of National Dairy Research Institute, Karnal and

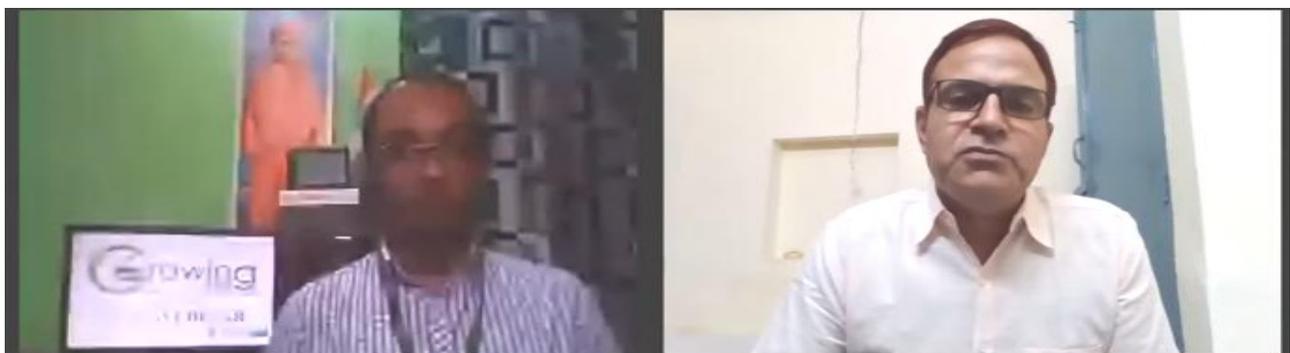
Indian Council of Agricultural Research, New Delhi.

The development of science is not possible unless and until each and every classes of our society have a reach on it, We observed that many students in early stage lose their interest on science just because they find the science on textbook (and also the still images) are quite boring and not interesting enough. A live lactobacillus or fungi colony looks much better under a microscope than a simple textbook image! An arrangement of cells; the extraordinary art of nature is



fascinating when we experience it by ourselves. But here comes the issue; a student from government run average schools from a remote corner have no access to this experience until he reaches 10th or eleventh standard or may be never during his entire school life. Our Anweshan program is designed to provide the facility of scientific experiment to the schools, a team of experts from our organization often visits the remote schools with some basic instruments to provide a practical knowledge to the students of the rural schools of the state.





Growing Seed Organization Presents

Live Webinar on SELF SUFFICIENT AGRICULTURE: NEW APPROACHES

Quick look on Cultural Activities



Over a billion people live in India, which has enormous cultural variety in terms of languages, geographical areas, religious traditions, and socioeconomic stratifications. There are, nevertheless, similar themes and ideas that contribute to the dominant society's values, attitudes, beliefs, and customs. Indians, on the whole, take great pleasure in their culture's uniqueness and variety. Agriculture expansions and technical achievements in infrastructure, science, and

engineering, for example, are sources of pride for the country. Furthermore, India's rich artistic cultural exports of music, fine arts, literature, and spirituality inspire a great deal of pride.

Since 2011, the group has released an annual Bengali entertainment magazine called "Uttaran." Every year on the eve of Durga Puja, the magazine is released. This project intends to create community as well as providing a platform for ordinary people to share their opinions with an established writer. This

publication does not advocate violence of any kind, whether religious, sexual, social, or political. The publication is offered to people of all classes and ages in our society. Every year, we had a sub-divisional art competition, in which individuals of all ages shared their unique ideas on a sheet of paper. From the start, the programme is open to anything, which makes this type of activity programme a huge success.

Round the year several cultural activities have been performed by the organization to promote the unique ideas of individuals and the local tradition and culture. The events are ranging from art competition to encourage the ideas of participants etc. Cloth bag made up of used cloths is one of the massive achievements of the organization to promote eco friendly ventures by promoting the art of local artisans.



Growing Seed: the Social Organization for the Society



The service of a human being is also referred to as community care. Although it is each human being's primary responsibility to assist other living and non-living components, many of us also overlook certain behaviours that result in diverse groupings. Many individuals still throw food away, but many still go without food, clothes, shelter, and other necessities.

The major purpose of this organisation is to provide a helping hand to anyone who needs it. On

the day the organisation was founded, we pledged to provide some kind of service to our community.

Members of the organisation gave blood in response to phone calls throughout the year. A decrease in life was made available to everyone who desired it, regardless of class, colour, or any other social distinction. We don't believe in social division and instead focus on delivering brotherhood.

We've done a number of scientific awareness activities, including



offices and to the common people during the crisis days. We got support from DM & Collector, North Tripura; DDA, Unakoti Tripura; BDO, Laljuri block

using a solar filter to observe a solar eclipse.

To combat against the COVID-19 virus and overcome the pandemic situation, we have taken several activities round the year. The activities include dry ration distribution to the needy people, supply of food and medicine to the home isolated people etc.

We have prepared a huge number of face cover by the SHG's operated by the women to provide a livelihood support to the rural women and distributed those masks in different

during this process.

We also offered some new outfits to impoverished females during the holy holiday of Durga Puja. We were also granted some financial aid to help students who were less fortunate. We've seen that during different festivals, people often rush for freshwater, and there is very little free fresh water accessible in the city of Dharmanagar, therefore many poor people travelled to the city to





promised to provide water to the general public, and we've done so for the previous few years.

enjoy the celebration but skipped water due to a lack of resources. So, during the festivals, we

meals to baggers and psychologically sick people.

In addition, we have offered





Our Collaborators in this year



উত্তর ত্রিপুরা জেলা
NORTH TRIPURA DISTRICT

सत्यमेव जयते

DM & Collector, North Tripura



DEPARTMENT OF AGRICULTURE AND
FARMERS WELFARE

GOVERNMENT OF TRIPURA



LALJURI RD BLOCK



Indian Science Congress Association



ndri



Story of a Successful Bottle guard Grower

A good quality seed can provide good productivity to the farmers in a place. Cultivation with high-yielding seeds has met the growing food demand and increased the nutritional value. New variety introduction is a process of introducing a crop seed (a genotype or a group of genotypes) from its own environment to a new environment. These procedures of introduction may involve new varieties of crop or the wild relatives of crop species or totally a new crop species for the area. When a new variety is well matched to its new surroundings, it is released for commercial production without any genetic changes. For example, a variety like Narendra Shivani of bottle gourd has been selected from material introduced from Uttar Pradesh and this variety acclimatizes with the new environment in Tripura. It would give this bottle gourd variety to adapt to the new environments and edaphic conditions.

In 2019 our GS research wing decided to introduce Narendra Shivani a newly developed variety of bottle gourd, after successful introduction, seeds were distributed free of cost to farmers of Padmabil village North Tripura. Using this opportunity, farmers have received enormous income by taking this bottle gourd crop in comparison with other conventional varieties with the efficient use of water and fertilizers.

This is indeed a story of diligent farmer Mr. Subhas Chandra Nath, from village Padmabil, North Tripura which is located in Panisagar block of North Tripura District from Tripura, India. He has been able to take higher crop production of bottle gourd. Growing Seed organization helped him with the sapling of bottle gourd; as a result, he was able to receive income of ten thousand rupees from this activity.

Padmabil is an underdeveloped village. No employment opportunities available there. Most of the people from the Padmabil are old-style farmers who implement traditional practices and traditional seeds in agriculture. Most of the people do not expand enough money on their crops to buy new seeds, fertilizers, manure to get a good yield.



Mr. Nath could not achieve in traditional farming what he always believed to do something extraordinary, different in agriculture. Subsequently, Mr. Nath came to know about Growing Seed organization. The organization extended their assistance (seed of bottle gourd along with technical support) to many farmers like Mr. Nath so that they were able to successfully come out of that situation. Also, this newly introduced variety of bottle gourd namely 'Narendra Shivani' is having lots of demand in the local market and it's become a center of attraction for large shapes (More than 6 feet in length).

Mr. Subhas Chandra Nath, a progressive farmer of Padmabil planted some bottle gourd saplings. These saplings were sowed at a distance of 10 x 6 feet and in-depth of 5 cm respectively. He used mustard cake, one-year-old cow dung as manure/fertilizer which means to be pure organic farming due to this he was able to reduce extra expenditure. Productions of bottle gourd started after three months from this bottle gourd sapling were planted and it successfully produced fruit up to 5 months. Bottle gourd trees need less space gives high production less expenditure with high income for farmers. An added advantage is it has the high shelf-life softness of the fruit is makes it very unique in comparison with other traditional varieties of bottle gourd. These plants were watered 5 to 6 times and harvest was taken in a week. Every bottle gourd is approximately 5.5 to 6.5 feet.

Like Mr. Nath many other farmers of the state has adopted the farming of Narendra Shivani in successive years; economics has been represented bellow.

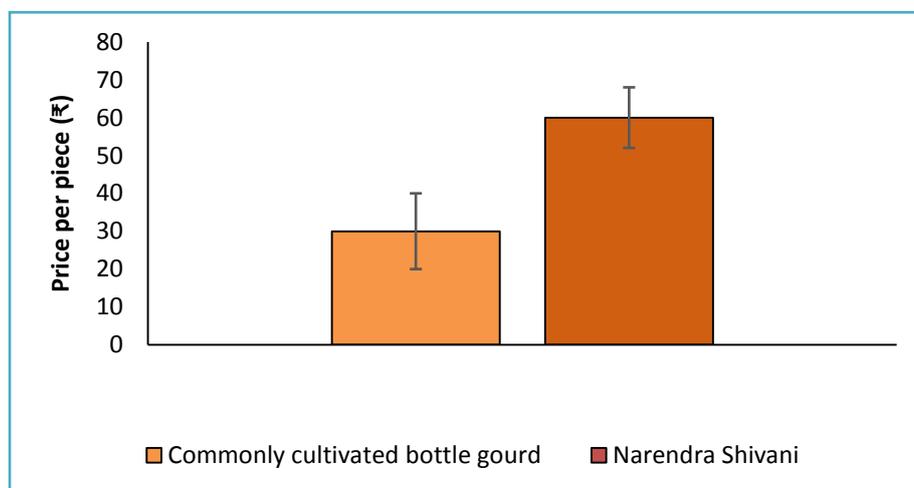


Fig: Comparative market price of Narendra Shivani as compared to other commonly cultivated bottle gourds in local market of Tripura. (Error bar indicating seasonal and locality price fluctuation as standard deviation)

Fig: Comparative yield of Narendra Shivani as compared to other commonly cultivated bottle gourds in Tripura. (Error bar indicating standard deviation in yield).

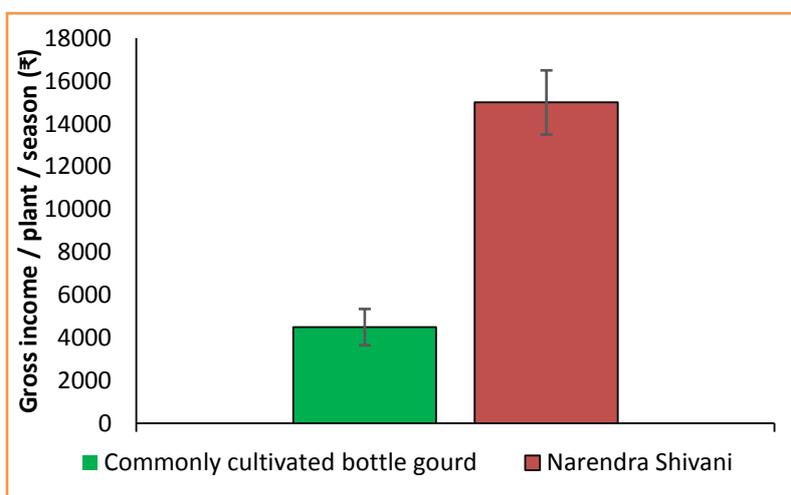
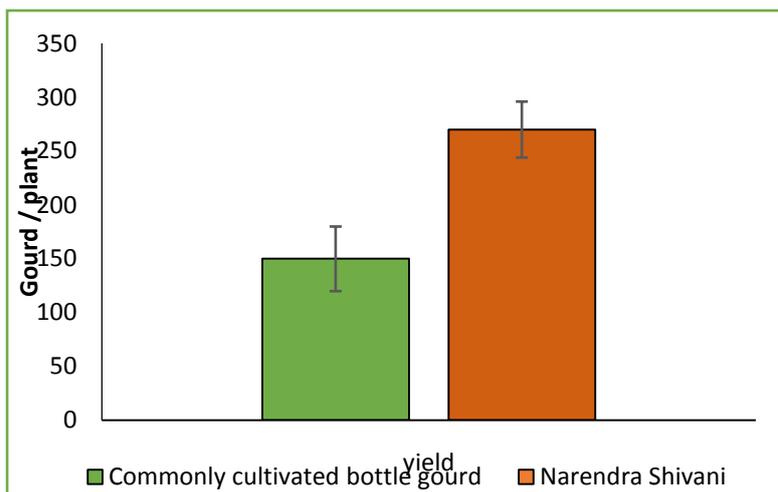


Fig: Gross income per plant per season basis of Narendra Shivani as compared to other commonly cultivated bottle gourds in Tripura. (Error bar indicating standard deviation).

Table: Nutritional profile of Narendra Shivani Bottle gourd seeds

Proximate composition		g/100 g dry weight	
Moisture content		4.17	
Ether extract (fat)		47.72	
Crude protein		37.49	
Ash content		4.45	
Carbohydrate		7.65	
Mineral contents		Mg/100 g dry weight	
Phosphorus		3.12	
Potassium		206.54	
Sodium		2.59	
Calcium		8.13	
Iron		6.10	
Zinc		0.40	
Copper		2.23	
Magnesium		33.73	
Manganese		1.72	

Some of our Publications

Bhattacharjee, S., Bhale, V. M., Bhattacharjee, P., & Kadam, S. (2019). Effect of potassium and zinc fertilization on root growth parameters of maize. *Bhartiya Krishi Anusandhan Patrika*, 34(3and4), 241-244.

Bhattacharjee, P., Datta, J., Nath, S., & Bhattacharjee, S. (2019). A study on total pest population present in aman paddy at North Tripura in respect to their economic threshold level (ETL) status. *Journal of Entomology and Zoology Studies*, 7(6), 435-438.

Bhattacharjee, S., Bhattacharjee, P., Nath, S., & Datta, J. Protected Cultivation: A Non-Conventional Way To Double Farmers Income. *INDiAN FARmER*, 963.

Nath, S., Bhattacharjee, P., Bhattacharjee, S. and Datta, J., (2019). A survey on ethnobotanical indigenous medicinal plants used by people of North Tripura District in India [Conference Presentation] *Cultivation, Conservation and Sustainable Utilization of Medicinal Plants For Livelihood Improvement* (Dept. Of Forestry, UBKV), COB, WB, India

Nath, S., Bhattacharjee, P. and Bhattacharjee, S. (2020). Grain and Cooking Quality Analysis of Some Indigenous Aromatic and Non-Aromatic Cultivated Rice Germplasm (*Oryza Sativa L.*) of Tripura Based on DUS (Distinctness, Uniformity and Stability) Descriptors [Conference Presentation] *Science & Technology: Rural Development* (ISCA, GDC-DMR), DMR, Tripura, India

Bhattacharjee, P., Bhattacharjee, S., Datta, J. and Nath, S. (2020). Integrated and Participatory Water Harvesting Approach Based Multiple Cropping: Model, Objective and Advantages. [Conference Presentation] *Environment, Human Health and Sustainable Development Goals* (ESDA & GRRCIL, Noida)



Activities at a glance

Dry ration distribution among the tribal people to combat against COVID 19

Place: Machmarra, Unakoti Tripura

Time and Date: 01.04.2020

Source of Fund: Organization Fund.

The necessity of the hour is for a modest helping hand. Keeping in mind that Growing Seed is giving food to Machmarra, Unakoti Tripura's interior. We are doing our best with limited resources and will continue to do so in the future. This is NOT a commercial, but rather a call to individuals from all walks of life to KINDLY STAND WITH THE NEEDY. We can defeat COVID-19 if we work together.

Donation to CM relief fund

Place: Dharmanagar, Tripura

Time and Date: 01.04.2020

Source of Fund: Organization Fund.

As the globe grapples with the COVID-19 epidemic, everyone is doing their part to combat the sickness. Growing Seed has chosen to provide a little amount to the "Chief Minister's Relief Fund-Tripura" in this respect. We have already submitted our first round donation to ADM, North Tripura, and we intend to do so again in the future. We are pleading with everyone to give since your contribution is critical at this time. We can defeat this infection if we work together.

Preparation of cloth face cover and supply to different Govt departments and distribution among common people

Place: Dharmanagar, Kailashahahr, Laljuri and different parts of North and Unakoti districts.

Time and Date: During April and May of 2020

Source of Fund: Organization Fund, DM North, DDA Unakoti, BDO Laljuri

It was our decision to join the fight against the Corona Virus as the entire globe comes together to combat it. We Indians are facing not just sickness but also terrible unemployment in our country. The lockdown, which is necessary to stop COVID-19 from spreading, has another side. The unorganised sector employs a large section of the Indian labour, which is seeing the first effects of the economic slump.

The idea of the Growing Seed Society forbids us from being inactive. As a result, we devised a plan to do our small part to the fight against COVID-19. We've begun producing reusable

masks, which will be purchased by the government and supplied to those in need. Who is responsible for those masks? No, not us, but the "Dashabhujas" in our immediate vicinity. Yes, we approached numerous women-only self-help organisations, and they are currently producing 500 masks every day for us! Within a few days, the output rate will be enhanced. This strategy will not only aim to satisfy the demand for reusable face masks, but it will also provide an income opportunity for some of the village women. This technique will not only meet the need for reusable face masks, but it will also give some of the village women with a source of money.

Another crucial point to note is that, because we place a premium on mask sanitation, we prepare all of our facemasks according to Ministry of Health guidelines and sanitise them in an autoclave. We'd also want to suggest that all other facemask manufacturers follow adequate sterilising processes to avoid mask contamination. We would like to remind everyone to wash their facemasks with hot water and detergent after each use. We'd like to express our gratitude to the Department of Botany, Govt. Degree College, Dharmanagar, for allowing us to utilise their research lab for mask sterilisation.

Production Capacity

As per the current situation we can prepare 300-500 masks in a day by using different SHGs.

In present situation most of the workers have no job so we have decided to engage our different SHGs so that this small amount can help them to carry out their daily essential needs. The work will be done by "Work from Home" principle and also by maintaining social distancing and self hygiene.

Cloth Requirement

Type of Cloth: 100% Cotton.

For Adult

- Cover Cloth Size: 9 inch * 7 inch (2 pieces)
- Strip Size: 1.5 inch * 5 inch (2 pieces) and 1.5 inch * 40 inch (2 pieces)

For Children

- Cover Cloth Size: 7 inch * 5 inch (2 pieces)
- Strip Size: 1.5 inch * 5 inch (2 pieces) and 1.5 inch * 40 inch (2 pieces)

7 masks (including wastage) for adults can be prepared by using one meter of cloth.

8 masks (including wastage) for adults can be prepared by using one meter of cloth.

Online seminar on "Self Sufficient Agriculture: New Approaches"

Place: NDRI, Karnal, Haryana and IARI, New Delhi (Online).

Time and Date: 3:30 PM. 30.05.2020 & 31.05.2020

Source of Fund: Organization Fund.

We, the Growing Seed organisation, have organised a Webinar on the topic "Self-Sufficient Agriculture: New Approaches," which is based on the recently established Government project "Atma Nirbhar Bharat Abhiyan," which is keeping our Agricultural dream alive even in this COVID-19 reality. The Webinar will cover two key topics: how rainwater collection may help farmers earn more money in hilly places, and a systematic forage production and conservation technique that will supply feed for cattle all year.

Environment Day Celebration; Tree Plantation

Place: Dudhpur Village, Unakoti Tripura

Time and Date: 05.06.2020

Source of Fund: Organization Fund.

Nature conservation is one of our organization's fundamental missions, and it's also intertwined with our philosophy. We feel that every day should be designated as Environment Day since it is the only way for people and other creatures to coexist under the protection of nature. The human footprint on environmental harm has grown increasingly obvious in the wake of the COVID-19 outbreak. Let us not repeat the crime, but rather be a rational species as life returns to its former splendour.

We have planted a number of plants to the different location of the Dudhpur, Kanchanbari area of the Unakoti district.

Solar Eclipse Observation

Place: Dighir Par, Dharmanagar, North Tripura

Time and Date: 21.06.2020 11:00 AM to 2:25 PM

Source of Fund: Organization Fund.

A "Solar Eclipse View" was held on June 21, 2020, in Dighir Par, near I.S Office Dharmanagar, on the initiative of "Growing Seed" Social Organization, from 11:00 AM to 2:15 PM.

Over 200-300 regular individuals experienced this uncommon natural phenomena, despite beliefs.

The solar eclipse is only a natural occurrence; Growing Seed is attempting to bring this natural occurrence to the attention of the general public. There are several myths in our society regarding solar eclipse and its observance, this initiative has created a great awareness

among common people and they will ready to overcome from the superstitions of solar eclipse.

Experimental research trial on "Performance of Maize Under Different Manure Incorporation and Modified Panchagabya Formulation"

Place: Dudhpur, Kumarghat, Unakoti Tripura

Time and Date: April 2020 to Aug. 2020

Source of Fund: Organization Fund.

We assume and also advised by numerous agricultural scientists that the maize and maize-based cropping system can be an attractive alternative in this scenario. As maize can be grown in both upland and lowland conditions with rainfed and irrigated conditions, it suits Tripura's topography and tropical climatic condition very well. In recent times, Tripura is also witnessing a great boom in piggery and poultry rearing as many younger generations are turning toward this agriculture and allied sector activities. Both piggery and poultry sectors extensively use maize kernels as feed material however; as maize is not extensively locally grown, farmers face many hurdles to import maize grains from other parts of the country, increasing farming costs and decreasing profit margin.

Considering the immense importance of maize in the state Tripura as well as North East we have conducted a research trial on maize crop, purpose of this trial to identify best suitable organic source of nutrients and herbicides for maize crop in this region. The research data has been recorded and will be published in reputed journals in coming days.

Independence Day celebration

Place: Dharmanagar, North Tripura

Time and Date: 15.08.2020

Source of Fund: Organization Fund.

Independence day has been celebrated in our office premises. Considering the critical phase of pandemic situation we have celebrated the Independence Day in a very short program this year. We have hosted the national flag and a small food distribution has been done among 40 needy children of the locality.

Service for the home isolated COVID patients

Place: Dharmanagar, North Tripura and Kumarghat, Unakori Tripura

Time and Date: During the critical COVID wave period of 2020 & 2021

Source of Fund: N/A

Growing Seed Society has offered a service called as "Growing Seed Helping Hand" during this tough time of COVID-19. Growing Seed has chosen to extend its hand to carry these things from the shop to the house, as many individuals are under isolation/home quarantine and find it impossible to access many vital commodities such as medicine. Anyone in need of

such aid who lives within the reach can phone or send a WhatsApp message to take advantage of this service.

Preparation and distribution of cloth bags made by used cloths

Place: Dharmanagar, North Tripura

Time and Date: 02.10.2020

Source of Fund: Organization Fund

On the auspicious day of October 2nd, Growing Seed pays tribute to Mahatma Gandhi, the father of our nation. We, the Growing Seed group, think that the greatest way to honour any great person is to apply their teachings to our daily lives. The Growing Seed has handed recycled cloth bags to the residents of Dharmanagar in keeping with this idea. Gandhiji envisioned a clean, environmentally friendly India, which can only be realised if we reduce our reliance on single-use plastics. Recycled clothing is biodegradable and a viable and fashionable alternative to single-use polyethylene and plastic bags. We are urging and pushing people to reduce their reliance on plastic, which will help India, become substantially cleaner and more environmentally friendly.

Local crafts like sewing lovely cloth bags would draw many people out of poverty, as our honourable prime minister has asked for a "Atmanirbhar Bharat."

Popularization of high yielding bottle gourd variety in Tripura

Place: North, Unakoti and Gomati districts of Tripura

Time and Date: During July 2020 to February 2021

Source of Fund: Organization Fund

We are excited to announce that as part of our agricultural development initiative, we released a new bottle gourd line called "Narendra Shivani" last year. Because of its very large size, this may reach six feet and beyond, the cultivar quickly gained popular among Tripura's rural communities. However, the outstanding quality of the variety drew not just the progressive agricultural community, but also a wide range of other farming and gardening aficionados.

Prof. Sheo Pujan Singh of Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh, created the new "Narendra Shivani" line of tall Bottle Gourds. In the year 2019, Growing Seed brought this variety to Tripura. We are ecstatic to see how enthusiastic the farming community and the general public are about this variety.

We were astounded when honourable SP Sri. Bhanupada Chakraborty of the North Tripura district expressed a strong desire to plant this bottle gourd on his official dwelling. We, the Growing Seed Organization, admired SP Sri Bhanupada Chakraborty's excitement and decided to supply him with seed as well as technical assistance to ensure the successful

planting of this one-of-a-kind bottle gourd. Despite his busy schedule of enforcing law and order, he found time to plant, demonstrating his affinity for the natural world.

Moreover, the variety got popular throughout the state Tripura. We have received hundreds of requests for seed materials and technical support; however as per our budget and limit we have supplied possible seed including support to different location of Unakoti, Gomati and North districts, and received a huge success and positive response from the farming community.

Scio cultural event on the eve of Durga puja(Sub-divisional level art competition, distribution of new cloths among needy children, publishing of yearly magazine Uttaran, Distribution of prize among winner of art competition)

Place: Dharmanagar, North Tripura

Time and Date: 22.10.2020

Source of Fund: Organization Fund

In this event we do publish our yearly magazine "Uttaran", arrange an art competition and also distribute some new cloths among needy children.

Growing Seed, like in the previous ten years, has arranged cultural activities on the eve of the Durga puja celebration. Many solutions have been made to meet the instructions set by WHO and the Ministry of Health, Government of India, in light of the present pandemic conditions. The art completion took place online, and the bulk of our annual magazine "Uttaran" was published as an ebook/digital format. We think that releasing our magazine in digital format is just as thrilling as publishing it in physical copy since distribution will be a lot easier. Furthermore, we will be able to save a lot more papers, resulting in a significantly smaller environmental imprint!

We have shared small pieces of happiness (clothing) with small children, keeping our organization's motto and tradition in mind. We attempted to bring a small bit of happiness into COVID-19's bleak circumstances. Another highly satisfying aspect that we are delighted to share with our fellow residents is that not just ourselves, but a slew of other social welfare groups have stepped forward to assist the beleaguered people during this difficult time.

Finally, we'd want to offer our heartfelt appreciation to everyone who has helped and supported us on this journey.

Water facilitation at Dighirpar during pooja days

Place: Dharmanagar, North Tripura

Time and Date: 23.10.2020 to 25.10.2020

Source of Fund: Organization Fund

Durga Puja is the biggest festival of the Bengali community. Lakhs of devotees gathered at the Dighirpar area of Dharmanagar during puja days. The people from all over the state including neighbor state Assam and Bangladesh also visit this place. We know that water is the basics for all human being, but every person are not be able to buy a packed drinking water and also there are no permanent drinking water facility is there in that location, because of this we came to an idea to provide free purified drinking water booth during pooja days. Around 5000 people had taken the service of drinking water during those days.

Meeting with selected fish farmers of North Tripura

Place: Dharmanagar, North Tripura

Time and Date: 14.12.2020 & 21.03.2021

Source of Fund: Organization Fund

On the subject of "Doubling Fish Farmers Income Until 2022," we hosted an interactive session with progressive fish farmers. During this informative seminar, a variety of topics were explored in depth, including developing a roadmap for collaborative and cooperative fish farming, current high-density fish farming techniques, financing, and marketing facilities. In the following days, we hope to see an increase in the number of farmers who join our programme.

This conversation aims to look at the various issues that Tripura's fish farmers confront, as well as possible solutions to those issues and ways to boost the farmers' revenue. For aspiring entrepreneurs, fish farming holds immense untapped potential. Modern technology-driven, low-cost, high-density fish farming has the potential to significantly improve the economic condition of marginal farmers. Furthermore, incorporating fish farming as a business into the current agricultural system will make the entire farming system more environmentally sustainable, better fulfil nutritional need, and boost regional economic growth. Growing seed serves as a link between research institutes, farmers, and fish company owners in order to create an efficient and profitable fish farming environment.

Introduction and promotion of Tropical Apple crop variety for commercial cultivation in different location of Unakoti district

Place: Nilmoni Ghosh, Chantail, Kailashahar, Unakoti Tripura and Ajit Dhar & Uttam Goswami, Dudhpur, Unakoti Tripura

Time and Date: 07.01.2021

Source of Fund: Department of Agriculture (ATMA), Unakoti District, Kailashahar, Tripura

Introduction

An apple is an edible fruit produced by an apple tree (*Malus domestica*). Apple trees are cultivated worldwide and are the most widely grown species in the genus *Malus*. The tree originated in Central Asia, where its wild ancestor, *Malus sieversii*, is still found today. Apples have been grown for thousands of years in Asia and Europe and were brought to

North America by European colonists. Apples have religious and mythological significance in many cultures, including Norse, Greek and European Christian tradition.

Apple trees are large if grown from seed. Generally, apple cultivars are propagated by grafting onto rootstocks, which control the size of the resulting tree. There are more than 7,500 known cultivars of apples, resulting in a range of desired characteristics. Different cultivars are bred for various tastes and use, including cooking, eating raw and cider production. Trees and fruit are prone to a number of fungal, bacterial and pest problems, which can be controlled by a number of organic and non-organic means. In 2010, the fruit's genome was sequenced as part of research on disease control and selective breeding in apple production.

About Tropical Apple

Usually apple can be grown at altitudes 5,000-8,500 feet above mean sea level in the Himalayan range, which experience 1,000-1,500 hours of chilling but the tropical apple variety can be grown at low hill/plain area, which are about 1,800 feet above mean sea level. The variety does not require deep chilling hours.

The common characteristics of this scab disease tolerant apple variety are that it can be grown in high temperature areas, the plant height is up to 12-15 feet, fruiting starts after second to third year of plantation, flowering starts in early January and harvesting can be done after six months (June). Seasonal pruning of grown plant is needed. The ripe fruit colour is yellow-red with normal fruit size and sweet-sour in taste. The average yield of a well grown plant (10-12 years old) is about 1.0 quintal/plant.

Objective of the Introduction

To increase the farmers income, by providing them a platform to cultivate new crops. This innovation will also provide a healthy and fresh fruit to the local market.

The plant can be use for landscaping. It provides a magnificent view of any landscape that can enhance agro-tourism.

Purpose:

1. To introduce a new innovative, short duration and dwarf apple plant for cultivation in tropical region. i.e Unakoti Tripura.
2. To provide a better opportunity to the selected progressive farmers of Unakiti district.

Outcome:

There will be new high yielding dwarf apple variety in our state.
Income generation of the selected beneficiaries.

Capsule training program on mushroom cultivation

Place: Dolugaon, Kailashahar, Unakoti Tripura

Time and Date: 09.01.2021

Source of Fund: Organization Fund

A mushroom is the "fruiting body of a fungal plant that normally emerges above ground and carries spores," according to Wikipedia. This fleshy bracket (fruiting body) is widely eaten and reproduces by releasing spores similarly to how other plants disseminate seeds. Fungi are supported by a network of thin, microscopic threads known as the "mycelium," which instead of pulling nutrition via the roots. This network may be implanted into rotting wood, dirt, or any other chosen media over long distances.

Molds and yeasts are more closely related to fungi than vegetable plants. Although mushrooms are technically plants, they are completely distinct creatures since they lack chlorophyll and do not have a root system. Mushrooms, like humans, must rely on organic material for nourishment in three ways:

- as saprophytes (living on dead wood, dead tissue of live trees, or manure),
- parasites (attacking living plant or animal tissue),
- as mycorrhizae (living plant or animal tissue) (having a symbiotic relationship with plants).

To clear up any doubt about what constitutes a simple fungus and what constitutes a mushroom, scientists today use the term "mushroom" to refer to fungi belonging to either the order Agaricales or the order Boletales.

A basic training program on mushroom and its importance including cultivation process of oyster mushroom in temporary structure has been carried out in this program. Technical support has been provided by M/S Bhattacharjee's Biotechnology and the Dept. of Agriculture, GoT. Around 30 trainees attended this program.

Initiation of ANNESWAN program: A program aimed to provide scientific and technical knowledge to the school student by practical experiments.

Place: Piplacherra High School, North Tripura

Time and Date: 12.01.2021

Source of Fund: Organization Fund

The Growing Seed Family has finally started a project that is near and dear to our hearts. "Anweshan" is the name of the project. This initiative is a collaborative effort by the entire Growing Seed family and our well-wishers to provide youngsters in even the most distant

districts of North East India with hands-on exposure in current and fundamental science. We feel that the only way for India to succeed in the contemporary, scientific, and sophisticated world is for science to become more affordable and accessible to everybody. A contemporary nation's essential building block is a mind that thinks scientifically. Introducing youngsters to current science and its instruments is the most effective strategy to remove prejudice and pseudoscience. We've started visiting distant parts of Tripura with basic scientific instruments as part of our "Anweshan" campaign so that the youngsters may have hands-on experience. We feel that merely theoretical science sessions are insufficient; also, children in rural regions have limited access to scientific instruments. Who knows, maybe we'll find the next Louis Pasteur or J C Bose from Piplacherra High School if they can focus their eyes on the eyepiece of a microscope. Isn't that so!

Health camp: Free doctor consultation including blood group, BMI & blood sugar test and free medicine distribution

Place: Lakshminagar village, North Tripura

Time and Date: 23.01.2021

Source of Fund: Organization Fund

In honour of the birth anniversary of our country's greatest son, Netaji Subhash Chandra Bose, we successfully arranged a giant health camp today. The camp was held at North Tripura's Lakshminagar village. Furthermore, a variety of services were available, including free blood type testing, blood glucose monitoring, and general medical exams, followed by the provision of free medications. Growing Seed is committed to providing accessible and inexpensive healthcare, science, and education to the most vulnerable members of society in far-flung locations. It goes without saying that our volunteers worked tirelessly for several days to ensure the success of this event. Growing Seed owes a debt of gratitude to the local government and the general public for their support and active engagement.

Dr. Saoli Roy deserves special recognition.

M/S Debdoot Drugs, M/S Medzone, M/S Paul Medical Hall, M/S Debdoot Drugs, M/S Medzone, M/S Paul Medical Hall, M/S Debdoot Drugs, M/S Debdoot Drugs, M/S Debdoot (Dharmanagar).

Mr. Himadri Paul, Mr. Subham Banik, Mr. Biplab Nath, Mr. Pritam Nag, and Mr. Goutam Goswami for their helpful assistance.

Health camp: Free doctor consultation including blood group, BMI & blood sugar test and free medicine distribution

Place: Kalacherra, North Tripura

Time and Date: 21.02.2021

Source of Fund: Organization Fund

On the 21st of February, we successfully held a health camp at Kalacherra HS School in North Tripura. The camp offered a variety of services, including free blood type testing, blood glucose monitoring, and general medical exams, as well as the provision of free drugs. Growing Seed is committed to making healthcare, science, and education accessible and cheap to even the most disenfranchised members of society in distant locations. The Health and Family Welfare Department of the Government of Tripura has been really helpful. In this respect, we would like to extend our thanks to Dr. Prasun Bhattacharjee and Dr. Sudip Sukla Das, Medical Superintendents of the North Tripura District Hospital, for their unwavering support and assistance. It goes without saying that our volunteers worked tirelessly for several days to ensure the success of this event. Growing Seed owes a debt of gratitude to the local government and the general public for their support and active engagement.

Health camp: Free doctor consultation including blood group, BMI & blood sugar test and free medicine distribution

Place: Tilthai, North Tripura

Time and Date: 19.03.2021

Source of Fund: ISCA Dharmanagar Chapter

We successfully hosted an awareness camp and lecture on health and personal hygiene on March 19, 2021, in partnership with the Indian Science Congress Association-Dharmanagar Chapter, under the topic "Science and technology for sustainable development with women empowerment." The camp was hosted in the Deocherra Community Hall in North Tripura. The event was divided into two parts: a seminar on personal health management followed by a quiz competition in the first part, and free blood group tests, blood glucose monitoring, SpO2 checking, Blood Pressure monitoring, thermal checkups, and BMI checkups in the second part, followed by free sanitary napkin distribution among school students. Growing Seed is dedicated to helping the most downtrodden people of society with inexpensive and accessible healthcare, science, and education in far-flung regions. It goes without saying that our volunteers, especially women, worked diligently to ensure the success of this event. The local government and the general public owe Growing Seed a debt of appreciation for their support and active participation.

Title of the activity: Awareness Camp Cum Seminar on Health and Personal Hygiene.

Aims/Objectives:

- To provide basic health checkup to the common people of this area.
- To create medical awareness among women as well as common people.
- To provide basic educational inputs to the economically challenged children.

Target audience/participants with expected number: Common people North Tripura district.

Expected outcome: Medical and educational awareness and assistance among rural people of North Tripura.

Orientation program on Bamboo Propagation, Cultivation and Utilization

Place: Kanchanbari, Unakoti Tripura and Dharmanagar, North Tripura

Time and Date: 27.03.2021 and 28.03.2021

Source of Fund: Organization fund and FRCLE, Agartala

An orientation programme that is jointly organized with FRCLE - Agartala, on 27.03.2021 & 28.03.2021, on the topic of Bamboo propagation and different bamboo-based products at West Kanchanbari village of Unakoti Tripura and Dharmanagar North Tripura. Growing Seed is resolute in improving the financial condition of the farmers in North-Eastern states, especially Tripura. As conventional agricultural crops are fetching little economic advantage, more emphasis should be given to crop diversification with non-conventional crops such as bamboo. Bamboo has so many utilities that it is widely known as "Green Gold". We are continuously working to popularize scientific bamboo cultivation and utilization.