



NATURE BIO FOODS



Sustainability Report 2022

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# PREFACE

# ACT TRANSFORM INSPIRE



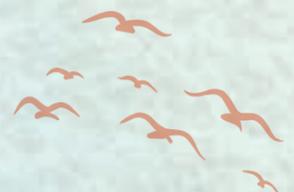
Dear Business Partners,

We at Nature Bio Foods express our gratitude for sharing our passion for organic. Your immense support & tireless commitment have helped us take a sustainable approach towards our work. The Sustainability Report represents our Vision, Philosophy and Actions towards achieving sustainability in its true sense in everything we do.

We acknowledge the significance of this report for Nature Bio Foods and stakeholders (investors, business partners, customers, employees, farmers and others associated with it). Therefore, to ensure transparency about the risks and opportunities, additional values we create, and how we do it, we want to make sustainable reporting a natural part of the development of our business and the basis for transparent accountability. Quantitative evaluation of indicators and accountability are objectives for our future Sustainability Reports.

Growing from a tiny seed to where we are today, we have come a long way. Over the years, we have been able to make our impact stronger, which has allowed us to step up and give back to the society and the planet as a way of expressing our gratefulness.





*Nature Bio Foods has crafted unique models that have synergised the building of economic, ecological and social capital as a unified strategy. These innovative business models enable competitive growth whilst simultaneously generating sustainable livelihoods and enriching the environment.*

Growing a sustainable, healthy and resilient agricultural sector by creating strong secure supply chain through practices that are socially responsible and environmentally sustainable.

## MESSAGE FROM CHAIRMAN



Mr. V K Arora

We are pleased to share our Sustainability Initiatives with you. Our success stories are a powerful statement to consumers about the integrity of our products. We can proudly claim that the financial growth of the company in the organic sector, and our ongoing initiatives towards social & environmental developments, are in the right direction for achieving our target. We aim to strengthen and revolutionize the farming community all across India.

We at Nature Bio Foods believe organic food is the future of healthy India and the world at large. Nature Bio Foods is not only about producing organic food but also about supporting our farmers. We strive to provide authentic products to our customers who love organic food. We are delighted to inform you that we have made tremendous progress in the socio-economic development of our farmers and have also worked towards protecting & conserving the diverse nature by creating a sustainable world for future generations.

Nature Bio Foods believes that combining fair trade principles in the business is the most important tool for achieving the holistic goal. It is a win-win situation for the stakeholders in the supply chain, right from the farmers to the consumers.

Act, transform, inspire has become our new motto during the pandemic. The best exemplification of the same is we have worked together to create the necessary supply management system for our farmers. Nature Bio Foods aspires to be a responsible, behave ethically & contribute to sustainable development with the strategies, policies, and actions aligned with the larger social, economic & environmental concerns. With this report, we aim to communicate with all our associates, keep them updated about our work and help them know Nature Bio Foods' ongoing work and initiatives better.

## MESSAGE FROM OUR LEADERSHIP



Mr. Rohan Grover  
(Director)

Mr. JS Oberoi  
(CEO)

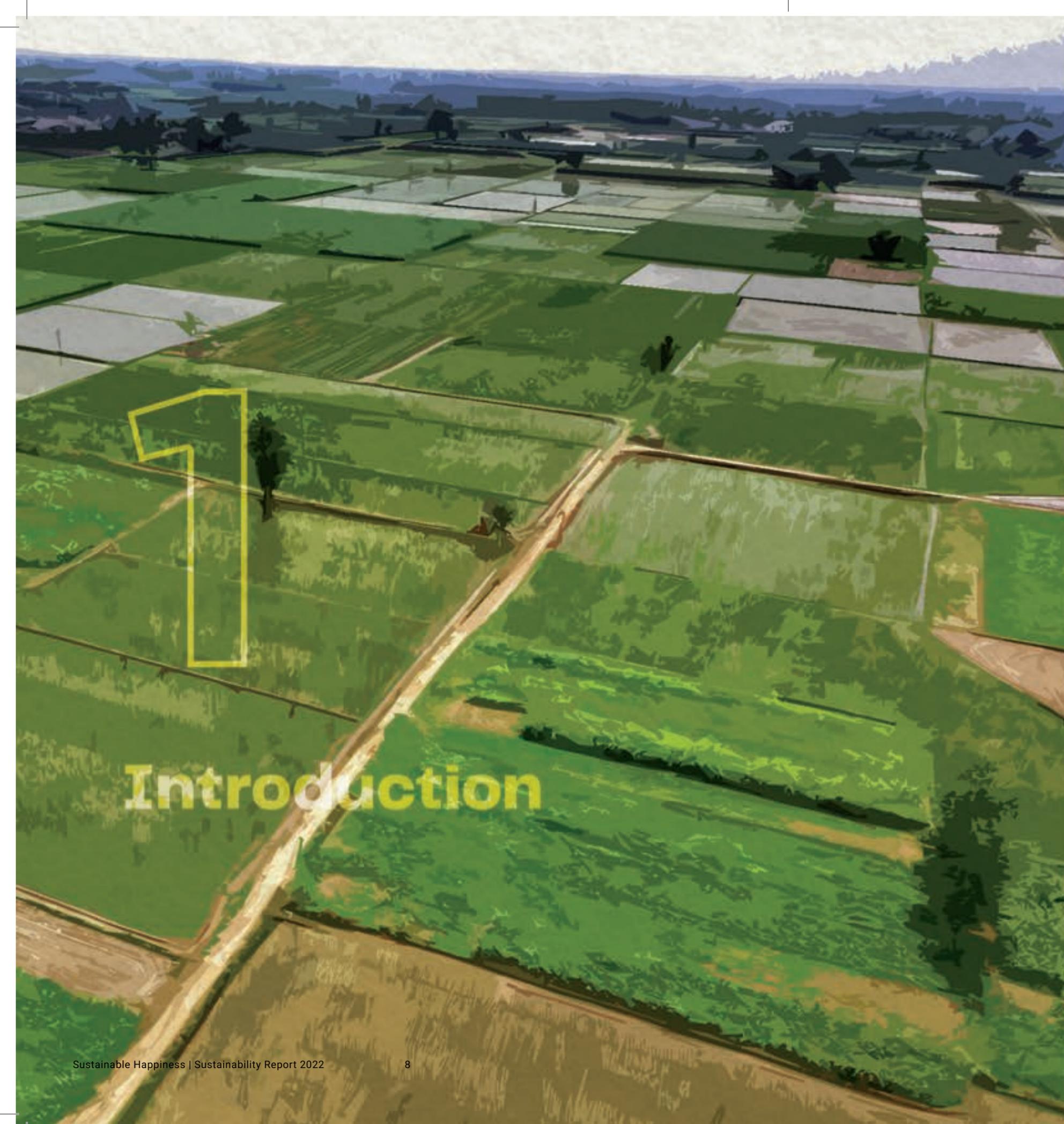
Mr. Anmol Arora  
(Director)

A spark ignited by a Vision to serve a larger societal purpose has now become the very soul of the company, driving every thought and action as well as the strategy and purpose of the organisation. In the last 28 years, Nature Bio Foods' business has grown significantly along with our dedication to sustainable practices and products. As a corporate, we take our role seriously and we are proud to showcase our progress across three key dimensions: economic, environmental and social responsibility.

As part of our sustainability strategic direction, we are focused towards people development, creating a sustainable supply chain, environmental management, good corporate governance and shared value creation. We are open and transparent and we aim to continuously improve in every area of sustainability. We are certain that companies with long-term sustainable business strategy are more successful. In the present circumstances, it is a necessity to have sustainable approach to a business and environment.

The devastating impact of Covid-19 has reminded all of us about the fragility of human life and the planet. We are extremely proud of how our people have handled the Covid-19 crisis so far. Keeping ourselves

safe, we took care of each other, while tirelessly working to support our customers, partners and suppliers. We also closely worked with customers to maintain regular supplies and new needs by transforming our services and adapting to travel restrictions. Though it impacted our remote auditing, workshops, training, regulatory tracking, permitting and field operations but we continued to deliver organic products and assistance to our stakeholders. While we are proud of what we've accomplished, we are aware there is much to be done. We will continue to mine opportunities and track our progress with rigor and a critical eye, to ensure our impacts are meaningful to those we serve. We invite you to discover the numerous ways through which we are carrying our commitments to transparency for our stakeholders, making progress in our ongoing sustainability initiatives and finding new ways to realize the full potential of Nature Bio Foods around the world.



# Introduction



## Connecting People To Organics

Nature Bio Foods is a pioneer in organic business in India. We have been passionate about connecting people to organic food since 1993 and we continue to hold high standards in creating long-term, sustainable solutions for global supply.



NATURE BIO FOODS

## ABOUT NATURE BIO FOODS

Nature Bio Foods is a pioneer in the organic ingredient business in India, a subsidiary of LT Foods Ltd, a leading rice-based food company popularised by the Indian household brand Daawat and Royal Basmati in the USA.

With years of hard work and commitment, Nature Bio Foods has undertaken more than sixty thousand hectares of certified organic land for organic cultivation. Our strong commitment towards the farming community for organic production, followed by high standard quality benchmarks and quality control system, has resulted in the success of the organic businesses spreading their finest quality products to the consumers.

For Nature Bio Foods, farms are a place of opportunities, communities, and shared purposes. Our responsibility goes beyond the farm to help enhance the lives of these farmers and their families through fair-market wages, access to clean drinking water, education, agriculture productivity enhancement programs, and infrastructure improvements.

At Nature Bio Foods, we continuously strive to empower our farmers by offering them economic and social stability through various programs and interventions. These projects have helped develop economic and environmental sustainability and

provide socio-economical measures that are variegated and have benefited the environment.

Nature Bio Foods has come a long way to establish itself among the most reputed organizations, covering an array of 100% Organic Rice, Pulses, Spices, Cereals, Nuts, Oilseeds, and Superfoods.

Our dedication and involvement across all the vertically integrated supply chains - operation, farm production, integrated development of communities, environment, manufacturing, packaging, and marketing has resulted in Nature Bio Foods' success. With 90% of the business driven by export sales, we have established our presence in Europe & USA through local subsidiaries.

We are building a sustainable business and contributing to a healthier future. Nature Bio Foods believes that the projected growth is not determined by revenue but rather by the number of lives impacted and the number of efforts and contributions made towards the environment. From our current position of strength, we can accomplish the goal of becoming an enduring and prominent global specialty foods company that is a consistent and predictable value generator.

## PHILOSOPHY



**THE LEGACY**  
The 28-years old legacy has only seen the passion grow, leading to deeply-rooted connections with more than 75,000 farming families.

**MISSION**  
Global leaders in delivering authentic organic ingredients to the world of consumers by practicing sustainable techniques of supply and production that secures a growing future for all the members.

**VISION**  
To lead the organic ingredient supply chain with a strong focus on sustainability and finest processing output..

# NATURE BIO FOODS' JOURNEY



# FUELLING THE GROWTH OF ORGANIC



**4%**  
Of Total Organic Farmers Of India



**48%**  
Geographic Spread Of Organic Operations In India



**28**  
Years Of Organic Farming



**60,000 HA**  
Of Certified Organic Farmland



**200,000 MT**  
Per Annum Grain Processing



**320**  
Company Workers and 300 field friends



**75,000**  
Farming Families Association



**130**  
Farming Groups

## FUELLING THE GROWTH OF ORGANIC

### UGANDA



 **3**  
Years Of Organic Farming

 **5,500 acres**  
Of Certified Organic Farmland

 **2,500 MT**  
Per Annum Grain Production

 **3,000**  
Farming Families Association

 **20**  
Company Workers

 **PRODUCTS**  
Soya, Chia, Sesame, Cashews



NATURE BIO FOODS

## FUELLING THE GROWTH OF ORGANIC

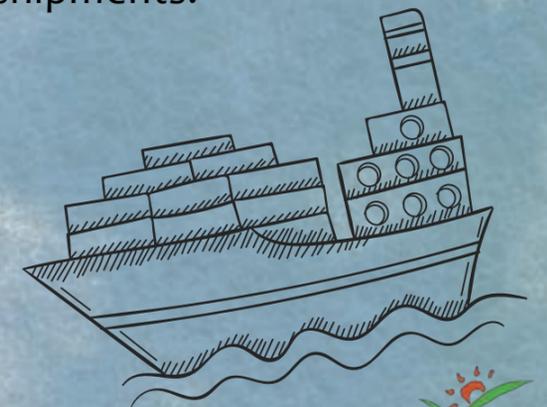
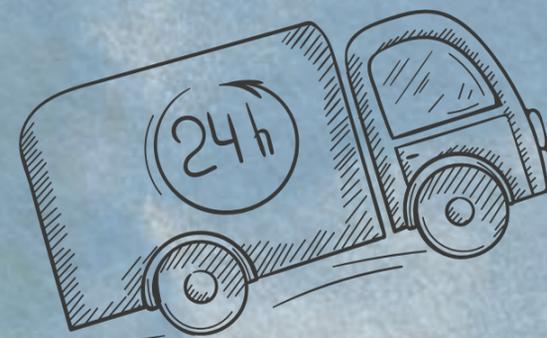
### AMERICAS



NBF Inc builds upon the Group's strong supply chain strengths through geographically & strategically established distribution hubs in the Americas.

Food and Feed Non Gmo and Organic ingredients offerings aim to revolutionize the largest organic food market by creating an effective supply chain, developing a platform offering a bouquet of quality organic food products, sourcing for the organic hot-spot of the world & delivering to the corners of the Americas.

Having five warehousing facilities along with strong connects with transporters for road, Barge movements in Bulk ( Silos), Big Bags and small bags transportation . Through NBF Inc, currently we are managing 6000 MT of organic flour and 6000 MT of organic rice shipments.



NATURE BIO FOODS

## EUROPE

Nature Bio Foods BV offers a vast bouquet of quality organic food ingredients for brands and industries sourced from sustainable organic farms of India, Africa and other Asian countries. JIT solutions with state of art infrastructure base of cleaning and packaging in the Netherlands and other distribution hubs in Germany and Italy making it a holistic, integrated & sustainable business model in Europe.

Having dedicated organic warehouses with capacity of 5000 MT.



## GLOBAL FOOTPRINT



**25**  
Countries Which Form  
Our Partner Base



**78%**  
Share Of Rice  
Exports From India  
To The World



**12.8%**  
Share Of Indian Exports  
In Food Business To  
The World



**85%**  
Share Of Organic Flour  
Exports From India To  
The World

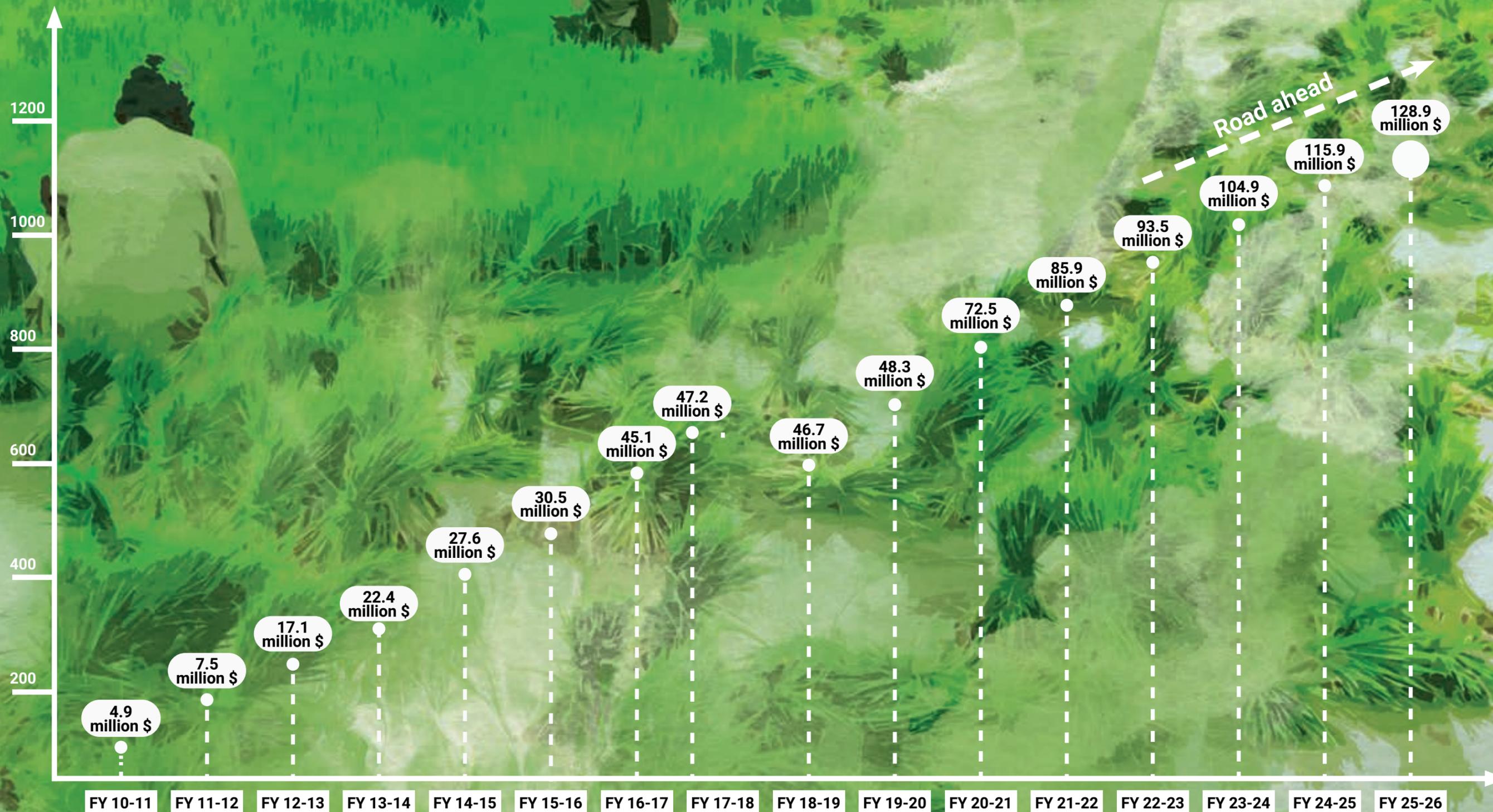


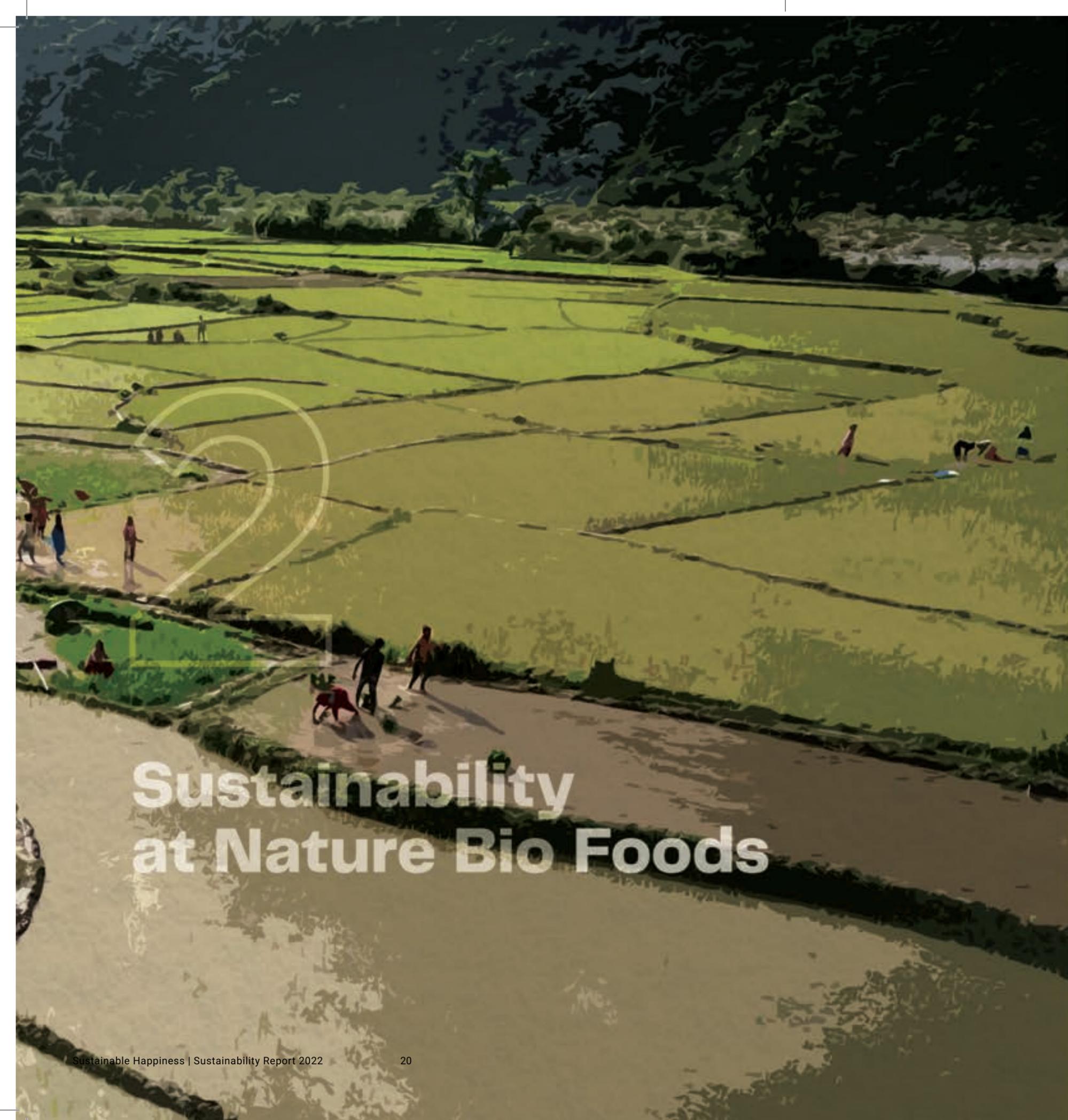
**52%**  
Share Of Organic Pulses  
And Lentil Exports From  
India To The World



**20.6%**  
Share Of Organic Oil  
Seeds Export From India  
To The World

# NATURE BIO FOODS 5 YEAR ROADMAP: SCALING UP OVER THE YEARS





# Sustainability at Nature Bio Foods



## Sustainability At Nature Bio Foods

Nature Bio Foods is working towards ensuring that it gives back to the society, community, and Mother Earth. Be it to the land, the soil, our people, or our farmers. We are India's largest producers of organic products. We grow organic food & ingredients that enable us to support sustainable farming communities while effectively promoting fair trade practices.



NATURE BIO FOODS

## CARING FOR GENERATIONS

Our sustainability work is focused on the areas that are most relevant to our business and where we can have the biggest impact - our products, our supply chain, people's lives, environment and governance.



### SUSTAINABLE PRODUCTS

- Making the right products in right way
- Organic integrity
- Safety & compliances



### SUSTAINABLE SUPPLY CHAIN

- Farm to fork
- Shared economic value
- Integrity, inclusivity and innovation



### SUSTAINABLE LIVES

- Farmers & community
- Human capital
- Consumers



### ENVIRONMENTAL ENDEAVOURS

- Climate smart practices
- Climate change mitigation
- Energy conservation



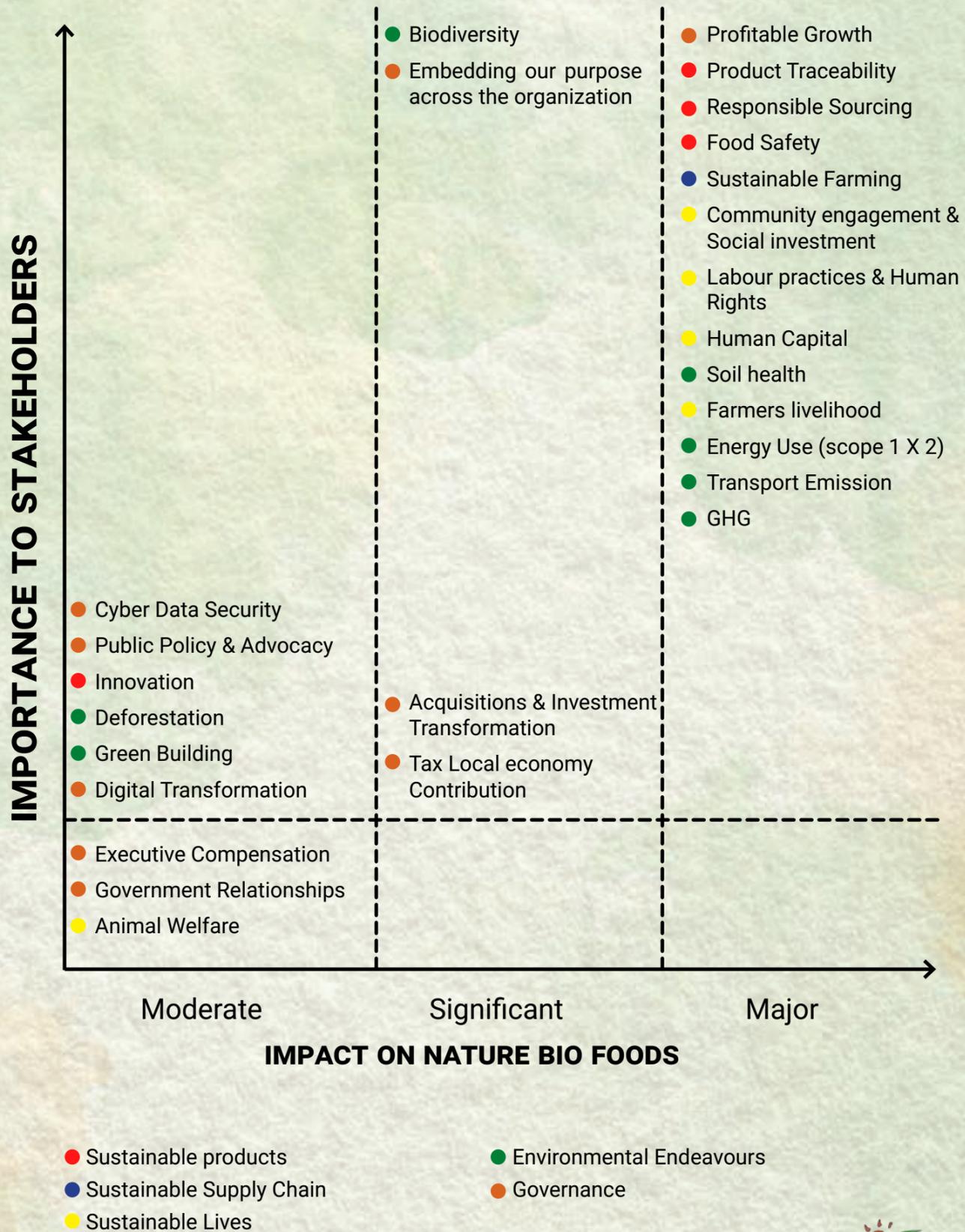
### CORPORATE GOVERNANCE

- Internal audit control systems
- Risk management
- Corporate commitments

## A THOUGHT THAT CONNECTS US



# SUSTAINABILITY MATERIALITY



At Nature Bio Foods, sustainability is built into who we are and what we do. We aim to bring sustainability to life by addressing the needs of a growing world through our balanced and diverse portfolio of products. We bring our global presence, deep knowledge and diverse resources so that farms can flourish, moving our world forward.

# 3

## Sustainable Products



### Sustainable Products

We at Nature Bio Foods do not consider ourselves as a food company. We believe that we are an environmental platform that grows and makes organic products. The team at Nature Bio Foods is driven and motivated to support causes we believe in and give back to our global community. We are guardians of organic, ethical, high-quality products that are safe for the consumers and the planet.

## OUR PRODUCT RANGE

### Trusted organic food and ingredients

We have been strengthening our organic portfolio with new and innovative products for more than 2 decades and we capitalize on growing consumer interests and improve awareness about the phenomenal benefits of organic food. Our aim is to satisfy the 'organic' demand in the international markets.

One of Nature Bio Foods main strengths is the ability to supply a wide range and large quantities of organic products and ensure the control and traceability of production chain from field to packaging, aiming to ensure consumer well-being and product quality.

**ORGANIC RICE**  
Traditional Basmati, Long Grain, Medium Grain, Round Grain, Short Grain, Red Rice, Black Rice, Broken Rice



**ORGANIC MILLETS**  
Amaranth, Quinoa, Finger Millet, Foxtail, Pearl, Sorghum



**ORGANIC PULSES**  
Red Lentils, Chickpea (Kabuli/Desi), Yellow Lentil, Black Lentil, Pigeon Pea, Red Kidney Beans



**ORGANIC FLOUR**  
Rice Flour, Wheat Flour



**ORGANIC SPICES & CONDIMENTS**  
Coriander, Red Chilli, Turmeric, Cumin, Black Pepper



### ORGANIC SUPER FOOD INGREDIENTS

Brown Flaxseed, Broken, Natural Sesame, Black Sesame, Soybean, Chia Seeds

### ORGANIC NUTS

Cashew Nuts



### ORGANIC PROTEIN

Rice Protein



**ORGANIC OIL SEEDS**  
Flaxseed, Sesame, Mustard



**ORGANIC SWEETENERS**  
Rice Syrups



**ORGANIC PELLETS & CRISPIES**  
Rice Pellets, Lentil Pellets



## STEWARDS OF ORGANICS & ETHICS

**100%**  
of all Nature Bio Food products are certified organic and Non GMO.

**125,000+ MT**  
of organic ingredients exported / distributed with third-party certification and audits.

**750,000+**  
Litre/Kg of synthetic pesticides and chemical fertilizer prevented from being used.

**30-35%**  
of rice seeds preserved for planting.

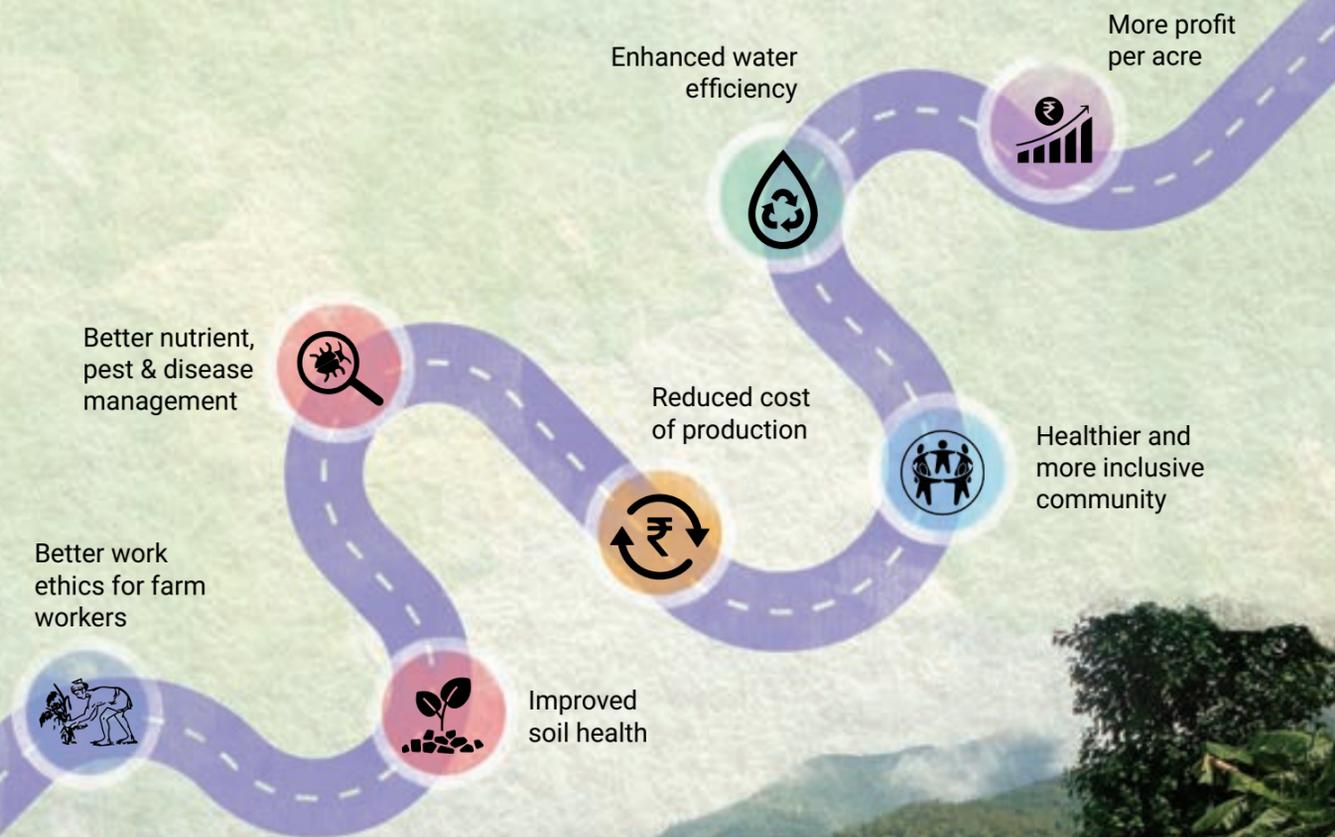
**27,000+ MT**  
Fairtrade certified products supported.

**4500+ MT**  
Biodynamic Demeter certified products produced.



# GROWING RESPONSIBLE PRODUCTS

Nature Bio Foods Initiatives seeks to grow responsible products through carefully controlled application of water and use of biofertilizers; thereby, dramatically reducing the environment footprint of farming.



# ORGANIC INTEGRITY



## SAFETY & COMPLIANCES

### Organic



### Food Safety Certification



### Social Certification



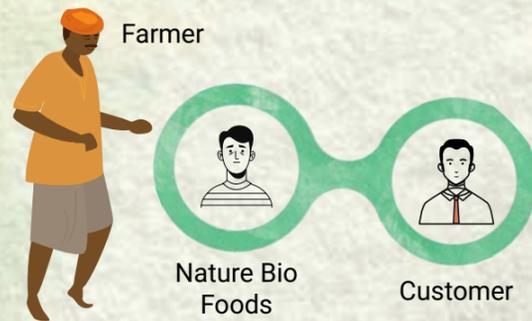
Transforming Food and Agriculture through sustainable farming practices, enhanced food security and better environment.

# SUSTAINABLE AGRICULTURAL DEVELOPMENT

## TRADITIONAL SUPPLY CHAIN



## Nature Bio Foods Supply chain



# TRANSFORMING THE AGRICULTURAL SECTOR FOR A HEALTHY, INCLUSIVE AND SUSTAINABLE FUTURE



## RESEARCH AND DEVELOPMENT

Nature Bio Foods is continuously putting efforts for improving inputs and production methodology.

Lot of focus on R&D to evaluate inputs and practices to increase crop yields, to improve farmland productivity, to reduce loss due to disease and insects, and to develop more efficient agricultural solutions that increase overall food quality.

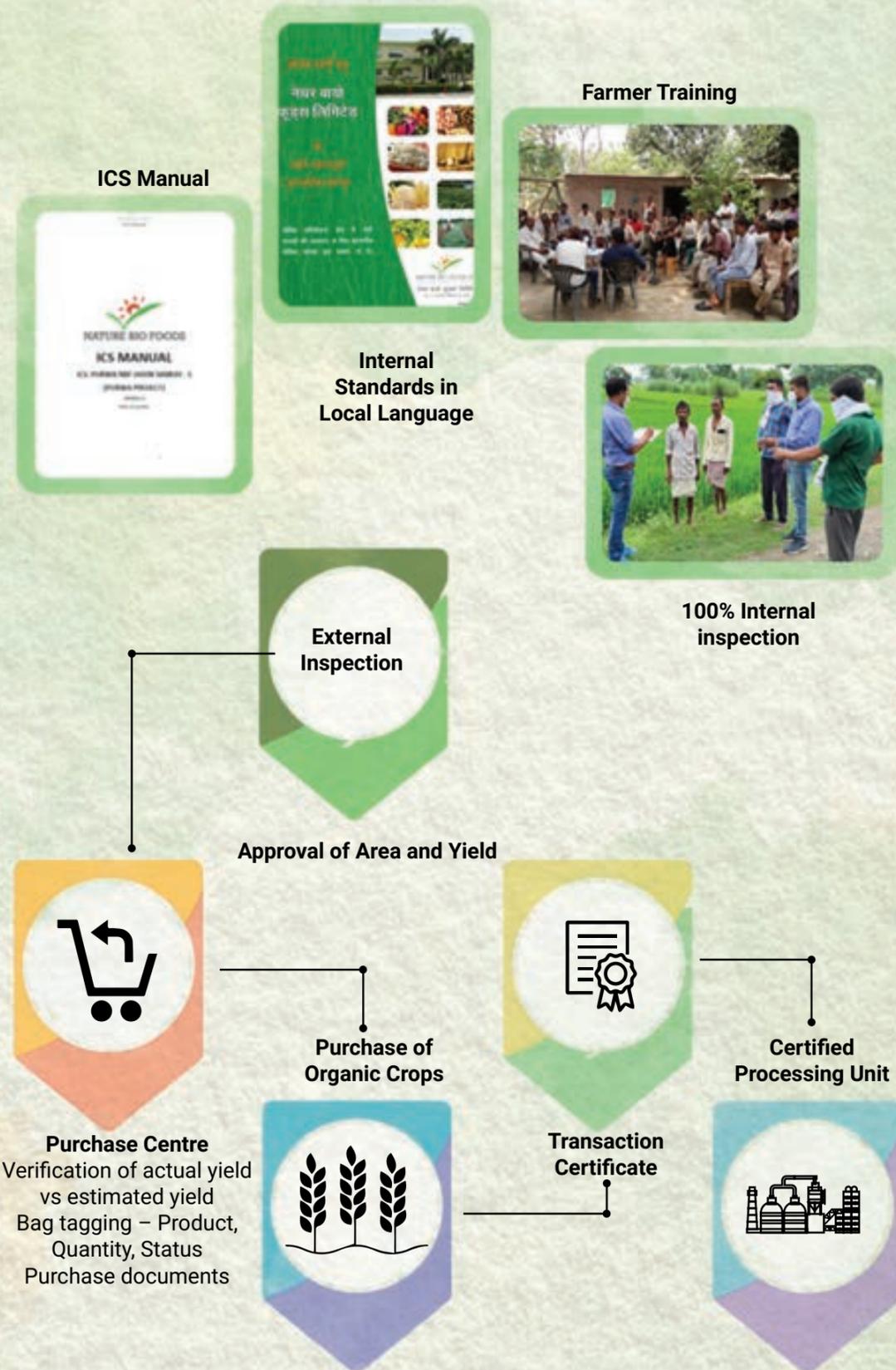
Nature Bio Foods through its partners and with the support from reputed Agriculture Universities and institutes have developed R&D farms across all operational clusters to provide customized solutions to local needs of farmers - an intelligent mix of traditional and scientific knowledge.



## NATURE BIO FOODS CERTIFICATION PORTFOLIO



# KEY FEATURES OF SMALL FARMER GROUP CERTIFICATION



# FAIR TRADE PROJECTS



Nature Bio Foods is India's largest producer of Fairtrade Certified Basmati and Non-Basmati Rice

Fair Trade Projects	FLO ID	Total Farmers	Area in Ha
Ramnagar Project , Uttarakhand	27596	1385	1183.88
Jammu Project, Jammu & Kashmir	39170	998	1294.35
Kotwa Project, UttarPradesh	29330	476	321.76
Balrampur Project, UttarPradesh	39073	907	763.56
Nanpara Project, UttarPradesh	33987	500	918.97
Kalan Project, UttarPradesh	39169	877	880.74
Ecopure Farmer Producer Company , Madhya Pradesh	39430	990	1077.37
Maa Bhagwati Farmer Producer company , Orissa	43686	500	809.75
TOTAL		6633	7250.38

Nature Bio Foods being a certified Fair trade company believes in empowering its farmers by offering them economic and social stability.



# SRP + ORGANIC PROJECT



Projects	Total Farmers	Area in Ha
Balrampur, Uttar Pradesh	121	203.40

**SRP + Organic Project**  
 Unique combination of Standards Pilot project, extension to be done in 2022

**Expected SRP + Organic Certified Paddy Quantity: 640 MT**



The Sustainable Rice Platform Standard and Assurance Scheme verify rice farming and handle a broad range of sustainability issues including critical areas related to greenhouse gas emission and air pollution. The standard and assurance scheme help increase global supply of rice, improve livelihoods of rice producers and reduce environmental impact of rice production. The Standard offers a broadly-agreed

working definition of sustainable best practice, and provides a scientific basis to offer supply chain actors a robust, cost-effective and transparent assurance scheme. SRP's Standard encourages farmers to adopt climate-smart practices such as direct seeding of rice in the fields to reduce water use and labour, in place of the traditional method where the seedlings are first grown in a nursery.



# REGENERATIVE ORGANIC CERTIFIED



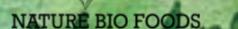
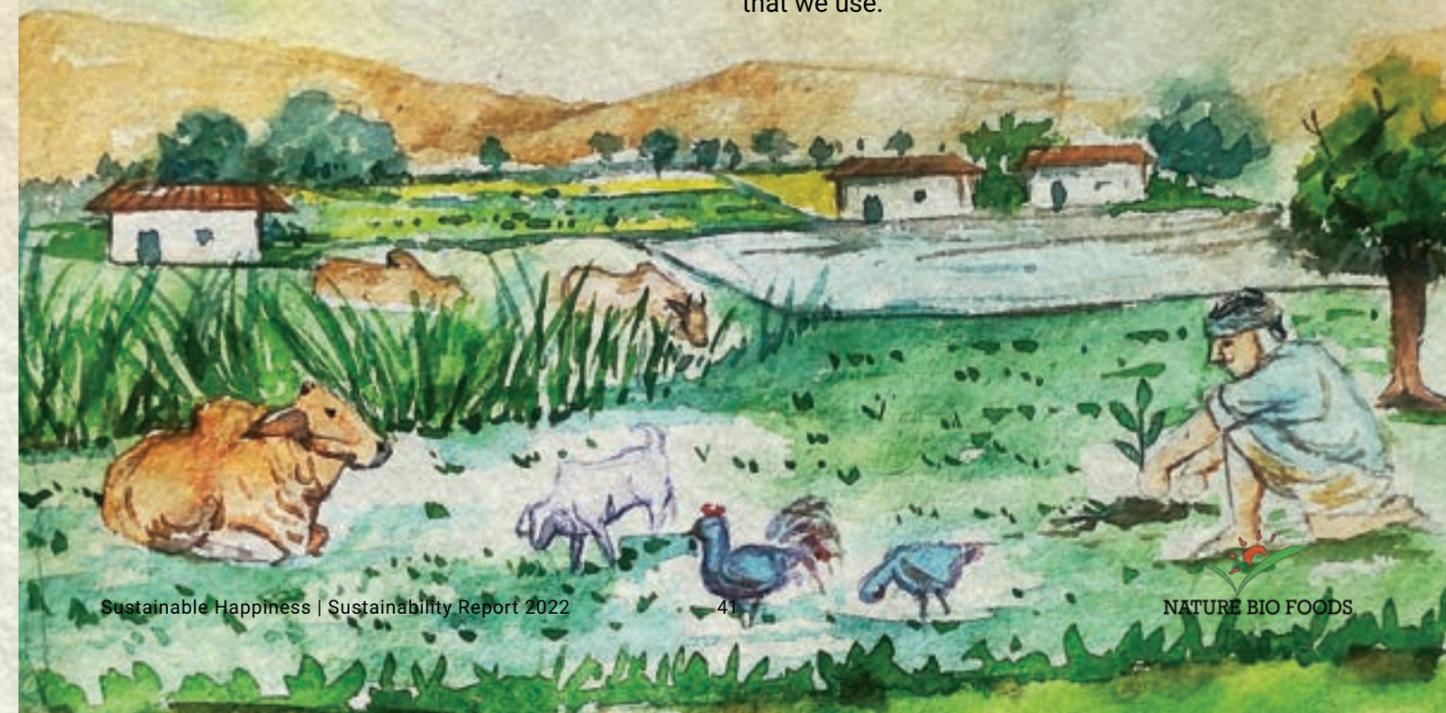
Nature Bio Foods started journey towards Regenerative Organic Agriculture in June 2021. We became ROA member in October 2021. We are now certified for Bronze level.

Project	Total Farmers	Area in Ha
Uttar Pradesh	500	557.11
Jammu	500	599.65
India	1000	1156.76

Project	Basmati MT	Non Basmati MT	Cow pea MT	Mustard MT	Flax Seed MT	Lentil MT	Oats MT
UP	1030	930	22	80	85	50	15
JAMMU	1890	-	-	10	-	-	-
TOTAL QTY	2920	930	22	90	85	50	15

A certification in not only organic agriculture, but regenerative organic agriculture includes a much needed emphasis on farming practices that benefit planetary well being in addition to human health. Regenerative agriculture is about more than soil carbon; it must mean healthier food, more biodiverse ecosystems, cleaner air and water, and better treatment for workers and animals.

It is based on three pillars: a high standard of land management that focuses directly on practices that help sequester carbon in soil, the welfare of farm animals, and fairness for atmosphere by using very specific farming techniques. While organic farming seeks to do no harm to the earth or the species that live here, regenerative organic takes it one step further, by intentionally replenishing the resources that we use.

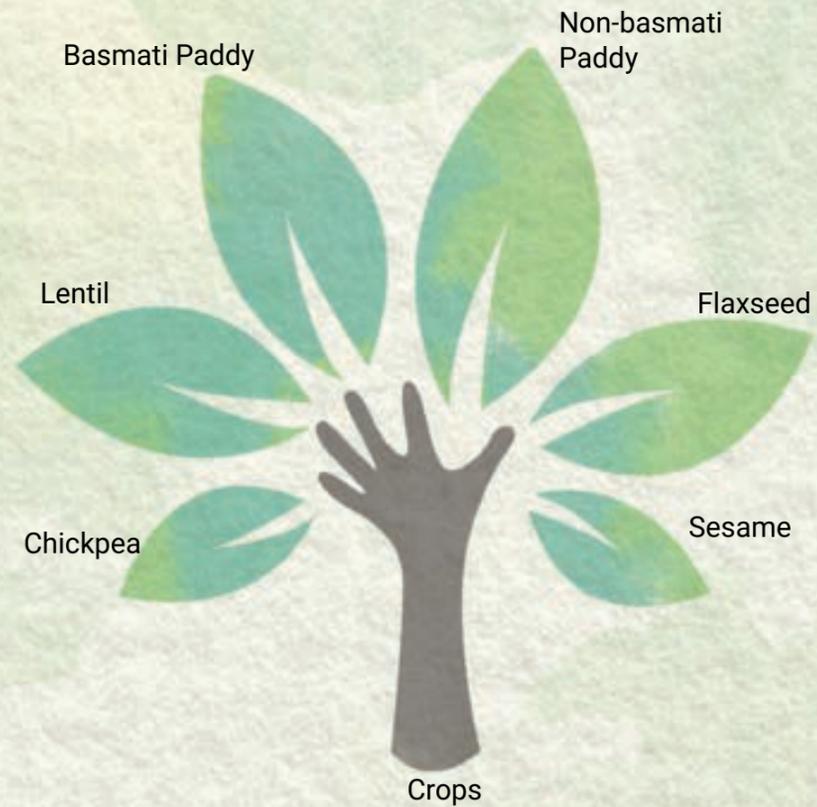


# DEMETER



Nature Bio Foods is India's largest producer of Demeter Certified Basmati and Non-Basmati Rice

Total Projects	Total Farmers	Area in Ha
5 Farmers Groups	1400+	1500+



Healing and Revitalizing the Earth through Biodynamics Farming.

## BUILDING A BALANCED FARM ECOSYSTEM

Biodynamics is the world's oldest system of organic growing and is one of the most sustainable and regenerative forms of agriculture in the world. Today, Nature Bio Foods is doing Biodynamics farming covering around 1000 Ha land under Demeter certification. Behind every Demeter certified Biodynamics product, stands a person who has committed themselves to the values and principles of biodynamic farming. Demeter certified biodynamic farmers use unique soil, plant and compost preparations that, when practiced successfully, create a humus-rich, well-structured soil ideal for the growth of healthy vibrant plants. The practice ensure the produce been grown and processed according to the standards include using environmentally friendly, ecologically safe, biological methods to activate and nurture the life of the soil, plants and animals.

Demeter has been constantly evolving since 1928, making this the oldest and longest practiced form of quality assurance in sustainable agriculture. It is also an international sign of quality so biodynamic produce and products are certified to the same standards in more than 50 countries on 5 continents. With organic certification as a prerequisite (all

Demeter products are dual certified and carry both labels), Demeter standards go above and beyond organic to guarantee methods of production and processing that are environmentally friendly, ethical and sustainable. Demeter Biodynamics products represent the care for nourishment of people and the planet and have the rigorous process to ensure the quality of the product.

Due to the Demeter Standard at least 10% of the farm's total area is dedicated to biodiversity, which is unique to biodynamic farming. The farm show a commitment to the maintenance of farm biodiversity.

A fundamental value in biodynamic farming, is our soil being regenerated, is the foundation for the best outcome for our food, our health and that of the planet earth.

Biodynamics practices provides a source of nutrients for plants, regulates the air and heat balance of the soil and also binds CO<sub>2</sub>. Therefore playing a very important role for the health of the climate as well.



## SOIL ENRICHMENT

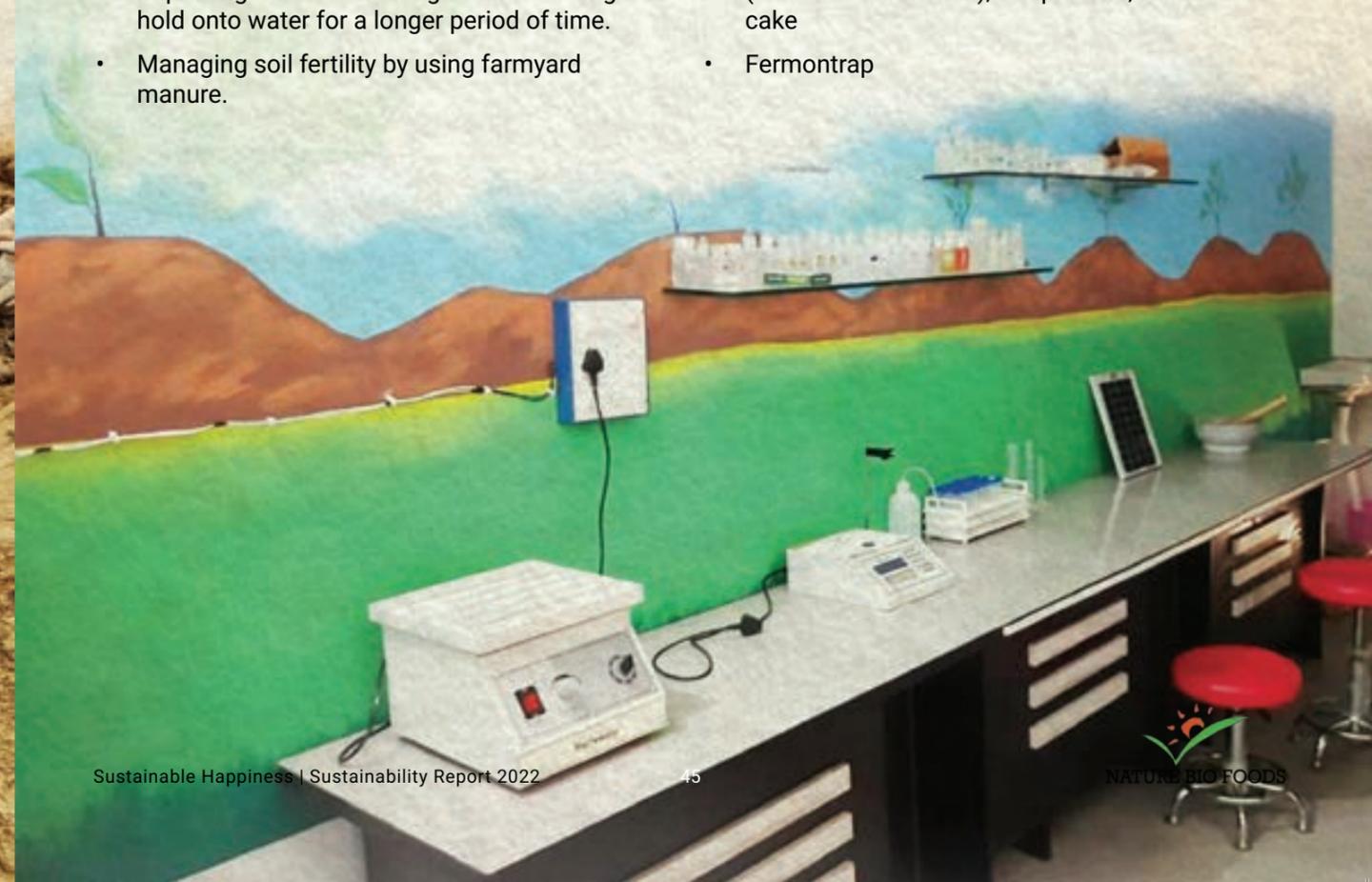
We at Nature Bio Foods have setup mini soil testing labs at various project locations to help the associated farming families .

Currently the soil testing labs established are well equipped to test below 14 Parameters

AVAILABLE ORGANIC CARBON (OC)	AVAILABLE NITROGEN (N)
AVAILABLE PHOSPHORUS (P)	AVAILABLE POTASSIUM (K)
AVAILABLE ZINC (ZN)	AVAILABLE SULPHUR (S)
AVAILABLE BORON (B)	AVAILABLE COPPER (CU)
AVAILABLE IRON (FE)	AVAILABLE MANGANESE (MN)
ELECTRICAL CONDUCTIVITY (EC)	PH
LIME REQUIREMENT TEST FOR ACIDIC SOIL	GYPSUM REQUIREMENT TEST FOR ALKALINE SOIL

- Nature Bio Foods is following **practices that influence the amount of organic matter.**
- Enriching the soil while keeping the pH of the soil in balance (Testing Soil PH in our soil testing labs installed at various projects.
- Improving the soil's drainage while allowing it to hold onto water for a longer period of time.
- Managing soil fertility by using farmyard manure.

- **Microbes used :** Azotobacter, Azospirillum and Phosphobacteria
- **Plant growth regulators :-Panchagavya ,Amirthakaraisal**
- **Commonly used green manure plants-**daincha (Sesbania cannabina), speciosa, Neem seed cake
- Ferontrap





# Sustainable Supply Chain

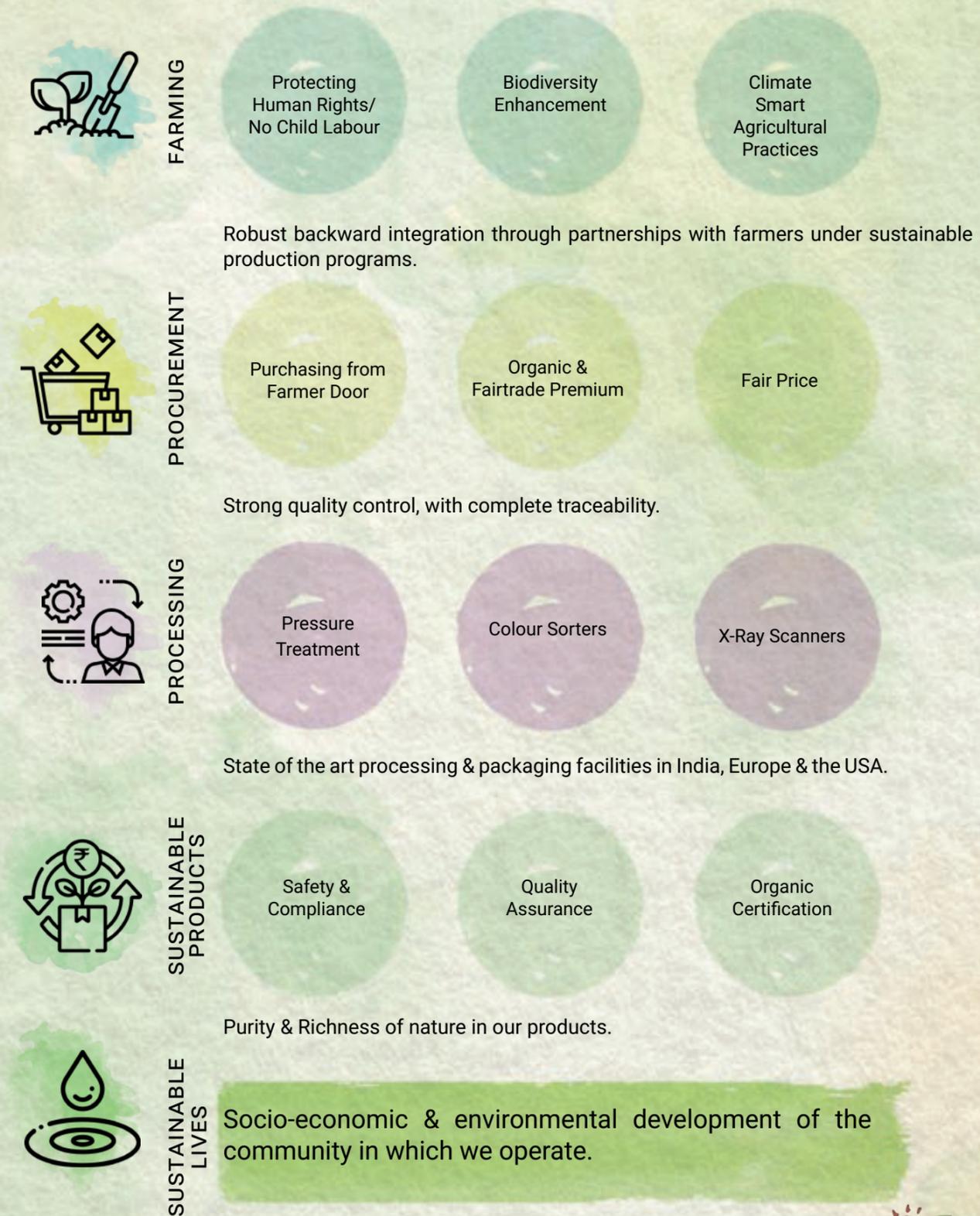


## Sustainable Supply Chain

We have helped farmers to optimise production methods in order to increase yields and profitability as well as reduced water consumption and greenhouse gas emissions. This all has been done in close collaboration with the extension systems, managed by the agri-extension team of Nature Bio Food. The lower production costs in organic farming and higher product prices ensure that the farmers participating earn substantially more.

# CREATING VALUE FROM FARM TO FORK

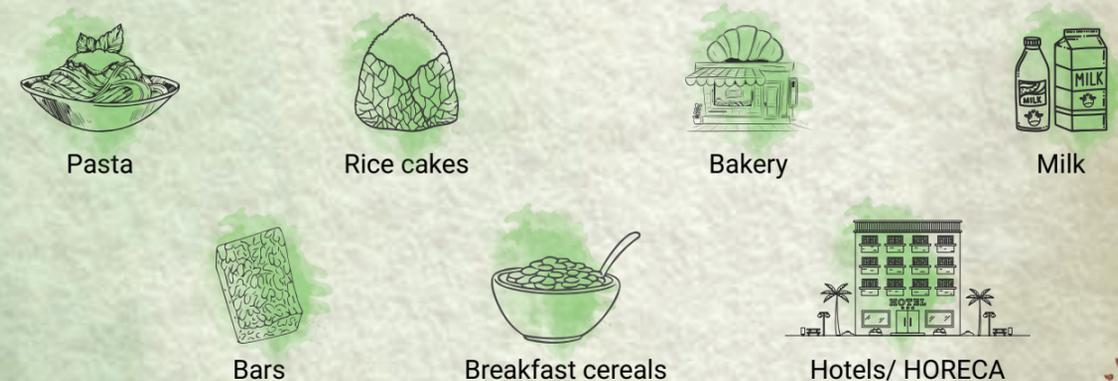
With our sustainable farm-to-fork business model & best industry practices, we constantly engage with our stakeholder groups and enable them to grow & prosper in tandem with us.



# STRENGTHENING THE INGREDIENT SUPPLY



where our rice gets used.



## MANUFACTURING PROCESSES



Nature Bio Foods is an FSSC 22000 certified company, which ensures that its products are grown and processed in a particular way that the consumers and the buyers can trust. Nature Bio Foods is the first organic company in India to receive the CII Food Safety Award.



IFS audit conducted recently at Nature Bio Foods factories has been successfully completed. The IFS audit is a GFSI (Global Food Safety Initiative) recognized standard for auditing food manufacturers.



The organic products of Nature Bio Foods certified with Kosher are processed under Halachic regulations and are under the orthodox rabbinical supervision of J.K.Kosher and KOSHER-PAREVE with the certificate and seal of J.K. Kosher and the signature of Rabbi Joshua Ezra Kolet.



Nature Bio Foods has secured a BRC Global Standards Food Safety issue 8 audit with Grade A. This rigorous standard was created by food industry experts and serves as a framework for managing product safety, legality, authenticity, and quality that aims to provide a risk-based and sensible approach to food safety.

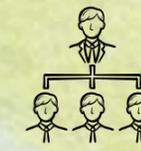


The organic products of Nature Bio Foods are certified Halal in accordance with Shariah (Islamic) board guidelines.

## CREATING SHARED VALUE



Fair Price to Farmers.



Advisory services including Farmer trainings, documentation for organic certification.



Improved input supply to the farmer.



Organic premium to farmers.



Buy Back support.



Direct procurement, no tax, fee brokerage paid by farmers.



Social & environment development in the Villages and communities.



## STRADDLE THE VALUE CHAIN WHERE VALUE CREATION IS THE HIGHEST

We carefully invest in the expansion of our capacities, nurturing our talent pool, advancing in technology, employment generation and giving back to the community as well as the environment.

Our pursuit of profits is powered by an uncompromising focus on integrity, inclusivity and innovation.

Over the last 10 years, we have achieved robust revenue growth, while maintaining margins, returns and a stable leverage.

33.39% CAGR growth.

22.77 % Revenue growth as compared to last year.

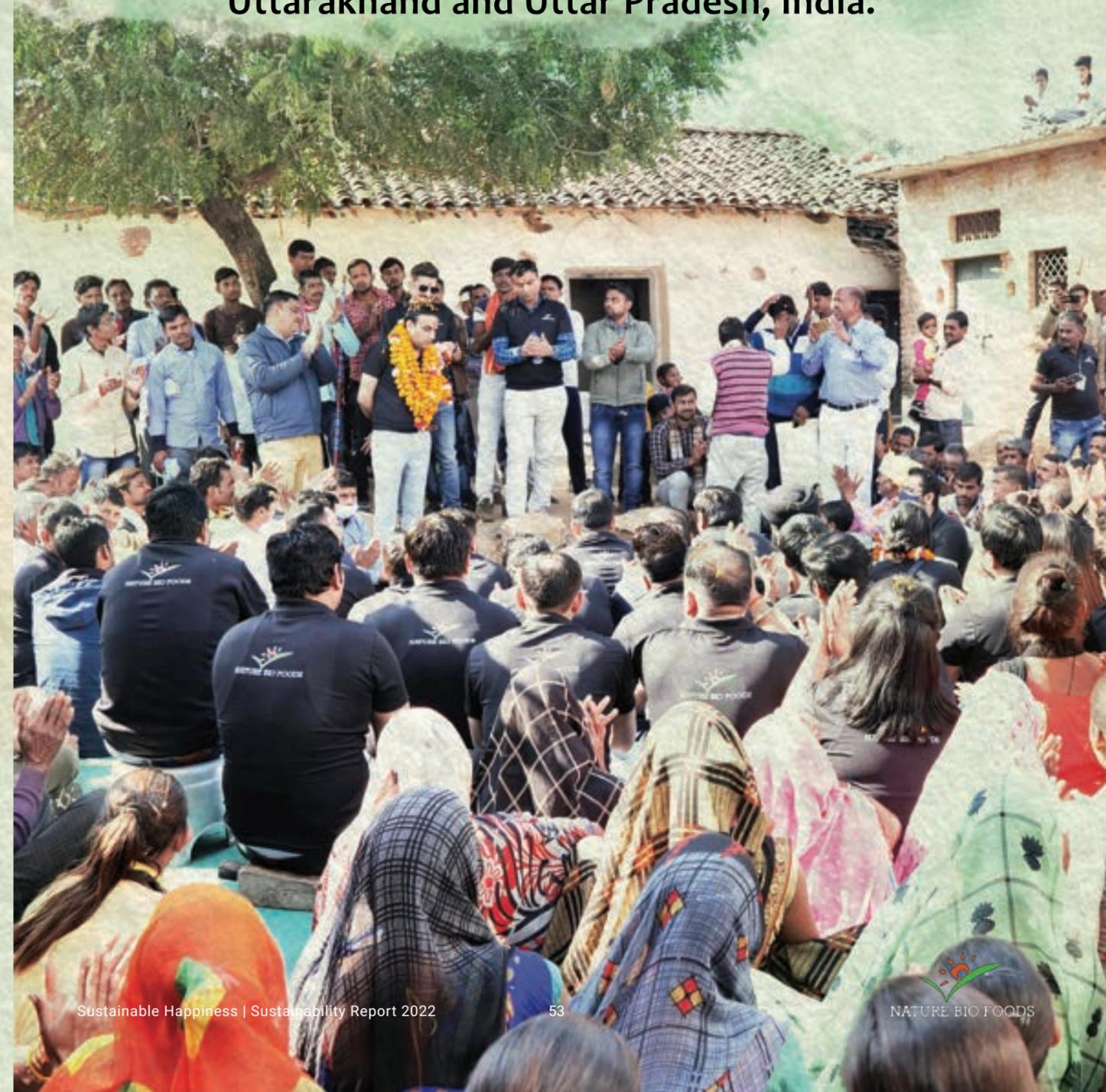
+\$1000000 spent on Farmer Advisory Services.

9.56% EBITA as compared to last year.

+2% Profit Sharing for Community Development under CSR each year.

+\$300000 Fairtrade Premium Contributed.

**KPMG, one of the leading providers of risk, financial, business advisory, tax and regulatory services, internal audit, and corporate governance conducted the independent evaluation study in two of the Nature Bio Foods projects which examined the various aspects of the organic rice project that has developed a value chain for certified organic and Fairtrade 'Basmati' rice in Uttarakhand and Uttar Pradesh, India.**



## ASSOCIATION OF THE BENEFICIARIES WITH THE PROJECT

A major segment of covered farmers has been associated with basmati production since the inception of this project, i.e., 2011 onwards. In Uttar Pradesh, 99.66% of the farmers were informed about the 'Basmati' initiative directly through the NBF members and only 0.03% of population had joined

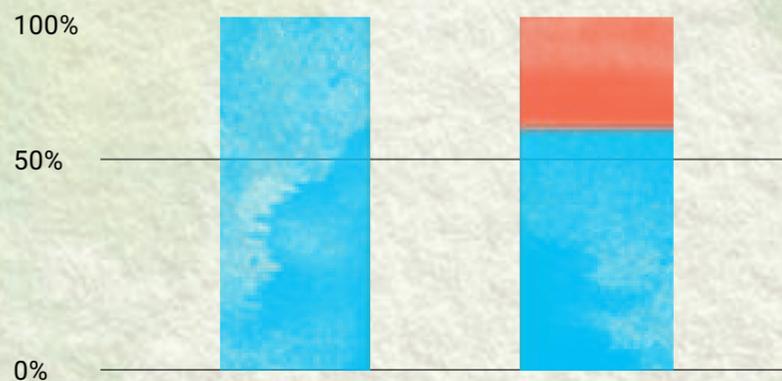
the initiative after getting informed through other beneficiaries. In Uttarakhand, 80% of the farmers were informed about the project through the NBF members, and the rest came to know about it through word-of-mouth. This reflects NBFs strong on-ground presence amidst farmers.

### Key observations

- Low Input Cost

While interacting with the respondents, it is established that due to the application of mix-method of farming techniques (traditional and modern) the input cost has become minimal. Most of the agricultural inputs are prepared at their own farms. There is no cost involved for the purchase of fertilizers or pesticides and self-produced farm inputs are enough to sustain the crop cycle. For the HHs with bio-gas systems installed, the slurry is being used as supplement for the land which is also found to have reduced the growth of weeds.

- Seeds Supply



The farmers from the state of UP are seen to prefer their own supply of the rice seeds. Whereas in Uttarakhand, around 55 % of the respondents prefer the seeds supplied by NBF as their primary source. The rest 45% relies on their self-prepared rice seeds. During the FGD, it was mentioned by the farmers that the seeds provided by NBF are of better quality and are affordable.

- Assistance through Agri-Service Centres

The ASCs run by the FFF (social wing of NBF), acts as the backbone of the project. The wide range of services being offered by these centers include: Agri implement support, land levelling, trainings and exposure on various farming techniques, trials, and demonstration, etc. These intervention through these centers have been pivotal in enabling the beneficiaries for efficient operations, maximizing the profits, reduction in the input costs and making them self-reliant for the farm inputs. Such diversified operation being run and well-maintained by the beneficiaries themselves, generates a sense of responsibility and ownership among the farming community. The smooth functioning of ASC and its impact is well acknowledged by the beneficiaries as per the FGD.

## UTILIZATION OF BIOGAS PLANTS IN THE HOUSEHOLDS OF THE PROJECT GEOGRAPHY

Nearly 50% and 46.7% of the respondents in UP and Uttarakhand respectively, reported the presence and usage of the biogas plant. 5.83% of the established bio-gas plants were found non-functional due to clogging issues. The usage of biogas is said to have reduced the cost of the cooking by ≈50%, by eliminating the purchase of LPG cylinders. Moreover, this has also saved a lot of time of the members of the HH, who usually are women, which was earlier spent while fetching the firewood. Respondents who reported the absence of bio-gas system are now

willing to install the system after witnessing cost reduction and health benefits. It is also seen that the farmers had raised the requirement for the bio-gas system purchase through the FT Premium. Only a handful showed disinterest in getting the system installed due to lack of suitable space in their HH in Uttarakhand. The slurry produced from the system is being used as supplement for the land which is also found to have reduced the growth of weeds. This shows the effectiveness of biogas for the farmers.

### Quality of advisory services provided to the beneficiaries

The advisory service caters the need of the beneficiaries by giving inputs related to the usage of machinery, pest control methods, manure management, etc. The advisory services are being imparted through TLM materials, in person and telephonic consultation. Telephonic consultation played a significant role in providing advisory services during the government led successive lockdowns.

The information dissemination mechanism is designed in such a manner that farmers also receive information about sudden change in weather conditions and the mitigation measures related to it. Additionally, customized solutions for individual farmers and selected geography are being provided as per the need.

### Beneficiaries' satisfaction level of advisory services

Uttarakhand				
Not Satisfied	Slightly Satisfied	Moderately Satisfied	Very Satisfied	Completely Satisfied
0%	2%	5%	10%	83%

Uttar Pradesh				
Not Satisfied	Slightly Satisfied	Moderately Satisfied	Very Satisfied	Completely Satisfied
0%	0%	0%	10%	90%

Satisfaction level of the farmers regarding the advisory services is observed to be high in both the states as shown in the above table.

## TRAINING AND EXTENSION

The farmers receive multiple trainings each year related to the organic farming process, including skill trainings of youth and women on latest farm mechanization. Farmer Beneficiaries also receive off site trainings at research centers across India on latest agriculture practices. Since the project initiation, the focus has been on training the farmers to make them self-reliant. This has been attributed by

the capacity building of the recipients making them lead farmers, who in turn train other farmers. A farm school is currently being established in the intervention blocks of Uttarakhand with the help of the FT Premium amount. This shall serve the local farmers as a pilot testing ground for the cultivation of new varieties of rice seeds.

### Logistical Support: Ease of transport



One major concern of farmers post harvesting of a crop is to transport it to the local market, locally known as 'Mandi'. This involves a certain time and cost for the farmers which at times led the farmers to sell their produce locally or to the 'Banjara' at a non-negotiable price. 'Banjara' is the term used for middleman, who collects Agri-produce from farmers locally and then sells it to wholesalers in the region.

However, in case of Basmati the time and cost involved for pickup of grains is almost negligible. Only 7.5% of the population reported to have some cost involved which amounted to an average of INR ~500 per crop cycle. This provision of logistical support is one of the key features that makes the 'Organic Basmati Rice' project unique.

Uttarakhand	Uttar Pradesh
The average rice yield for the farmers of this region stood at 28.14 A/Ha. All the organic basmati rice produce is being sold to Nature Bio Foods and the farmers are satisfied with the procurement process by Nature Bio Foods. As shown in above figure, the average yield production of basmati rice is increased from 24Q/Ha to 28A/Ha in the last season.	The average rice yield of the project farms in UP is 33.98 Q/Ha. all farmers are selling the entire rice produce to Nature Bio Foods, post keeping a minimum amount for family consumption. The rates received by the farmers for the basmati produce are almost double at the rates being paid in the local market.

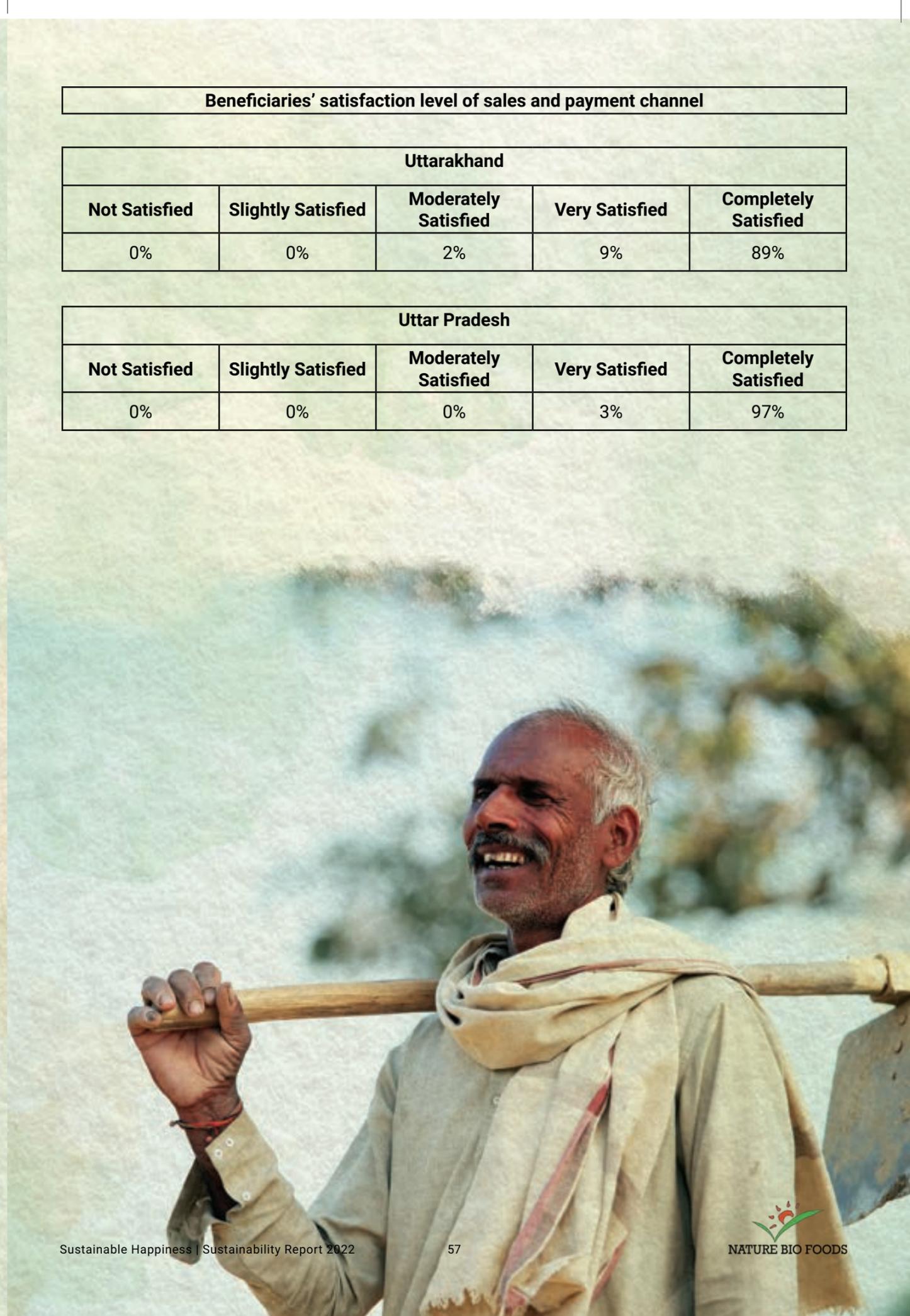
The procurement facility provided by the project saves time, cost, commission charge of the beneficiaries. The transport facility has been a value addition for the farmers of Betalghat region (Uttarakhand) due

to poor connectivity owing to the tough terrains. Additionally, digital weighing system has made the entire process more efficient and transparent.

### Beneficiaries' satisfaction level of sales and payment channel

Uttarakhand				
Not Satisfied	Slightly Satisfied	Moderately Satisfied	Very Satisfied	Completely Satisfied
0%	0%	2%	9%	89%

Uttar Pradesh				
Not Satisfied	Slightly Satisfied	Moderately Satisfied	Very Satisfied	Completely Satisfied
0%	0%	0%	3%	97%

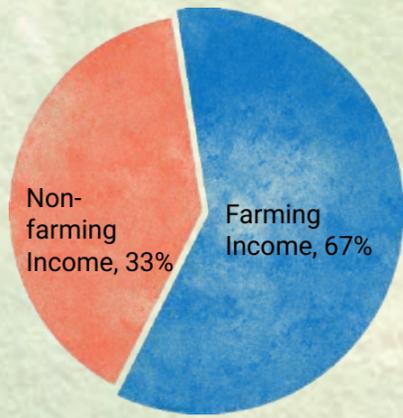


# INCOME

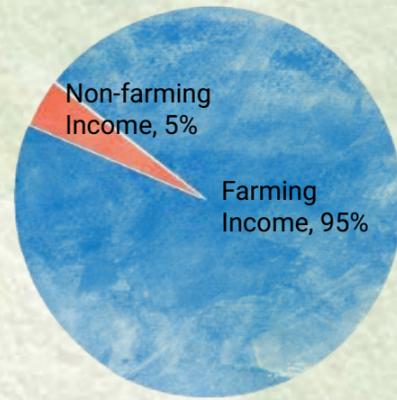
## Income generation through 'Basmati' Rice Cultivation

The farmers receive multiple trainings each year related to the organic farming process, including skill trainings of youth and women on latest farm

mechanization. Farmer Beneficiaries also receive off site trainings at research centers across India on latest agriculture practices.



Basmati Income, 44.5% of HH



Basmati Income, 51.41% of

Farming Income Basmati Income

Income share of 'Basmati' rice in Uttarakhand

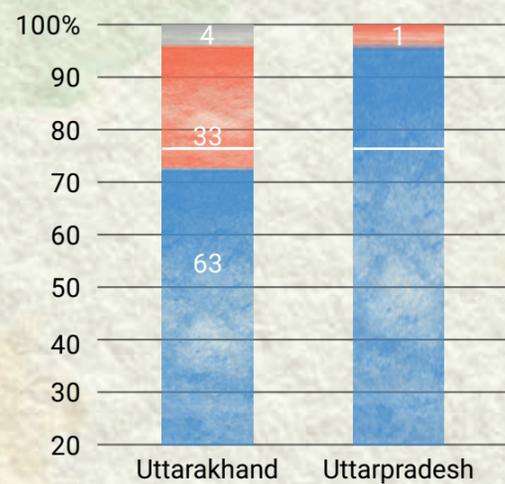
Farming Income Basmati Income

Income share of 'Basmati' rice in Uttar Pradesh

The average income generated through the basmati rice production, contributed to about 44.5% and 51.41% of the total HH income in Uttarakhand and

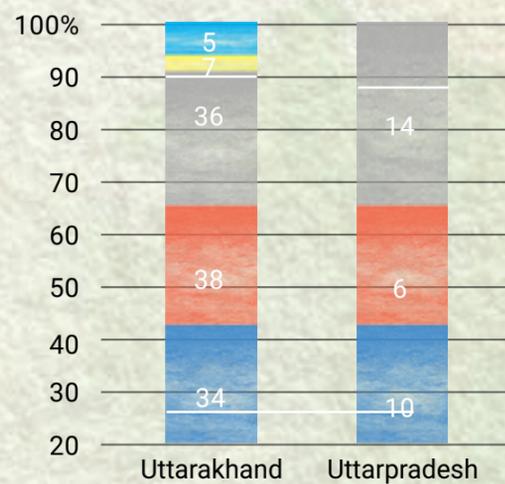
Uttar Pradesh respectively. The average income is calculated based on the value provided by the respondents.

## Change in income and expenditure pattern of the beneficiaries



Major +ve Change Slight +ve Change Same as before

Change in income



Upto 10% (10-20)% Above 30% Same as before Don't know

Change in expenditure



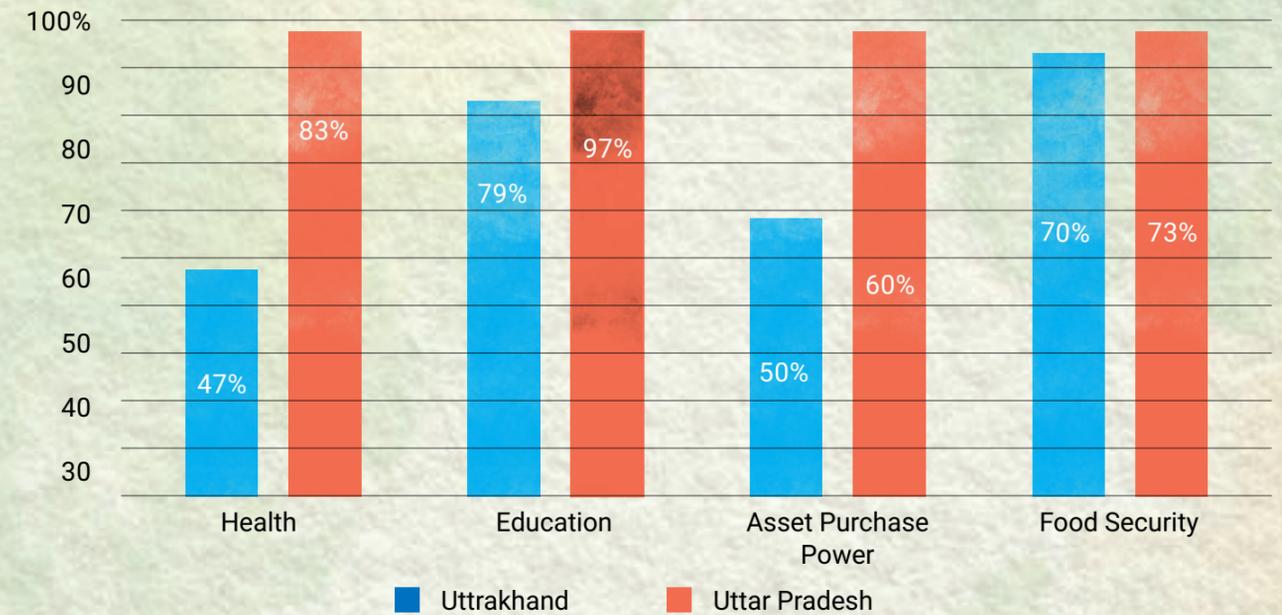
The organic rice project has impacted the beneficiaries by gradually shifting the economic trends within their HHs, through change in their overall income. Around 63% of the target sample in Uttarakhand reported that the project had resulted in major income increase for their household and 32.50% of the respondents have observed slight income increase. A mere 4.17% of the sample felt that the project hasn't impacted their income level.

From the same sample in Uttarakhand, 30% of the farmers felt that their expenditure has increased by over 30% as compared to the pre-intervention phase, 31.67% felt the expenditure increase somewhere between (10-20) % and 28.33% felt that the expenditure has increased up-to 10%. The rest of the

sample is unsure about the expenditure level or felt that the expenditure is at the same level as before.

Almost 100% of the sample respondents in Uttar Pradesh reported that the 'Organic Rice Farming' project, has led to a major positive shift in the income generation. This increased income resulted in the ability to increased expenditure as well From the sample population in Uttar Pradesh, 46.66% of the respondents felt expenditure increase to be above 30% compared to the pre-intervention farming, 33.33% of the respondents felt the expenditure to be up-to 10% and the remaining 20% respondents felt the expenditure increase to be between 10-30 percent.

## Impact of enhanced income



Uttarakhand Uttar Pradesh

Key Impacts of enhanced income

The enhanced income in Uttar Pradesh has enabled the farming community to avail better services and boost the standard of living by accessibility and affordability of services. Among the total respondents, 83.33 % have used the enhanced income to avail better health facilities, 96.66% have utilized the additional income for education of the younger generation, 80% respondents feel that it has strengthened their asset buying capacity, 73.33% claims to have a better sense of food security.

In Uttarakhand, 80% of the sample felt that the income enhancement benefitted in the education of the younger generation in the household and the affordability of quality education has now improved.

A better sense of food security is acknowledged by 70% of the sample post the organic farming intervention. Around 46% of the sample felt improvement in healthcare accessibility, 50% of the sample felt improvement in asset purchase power.

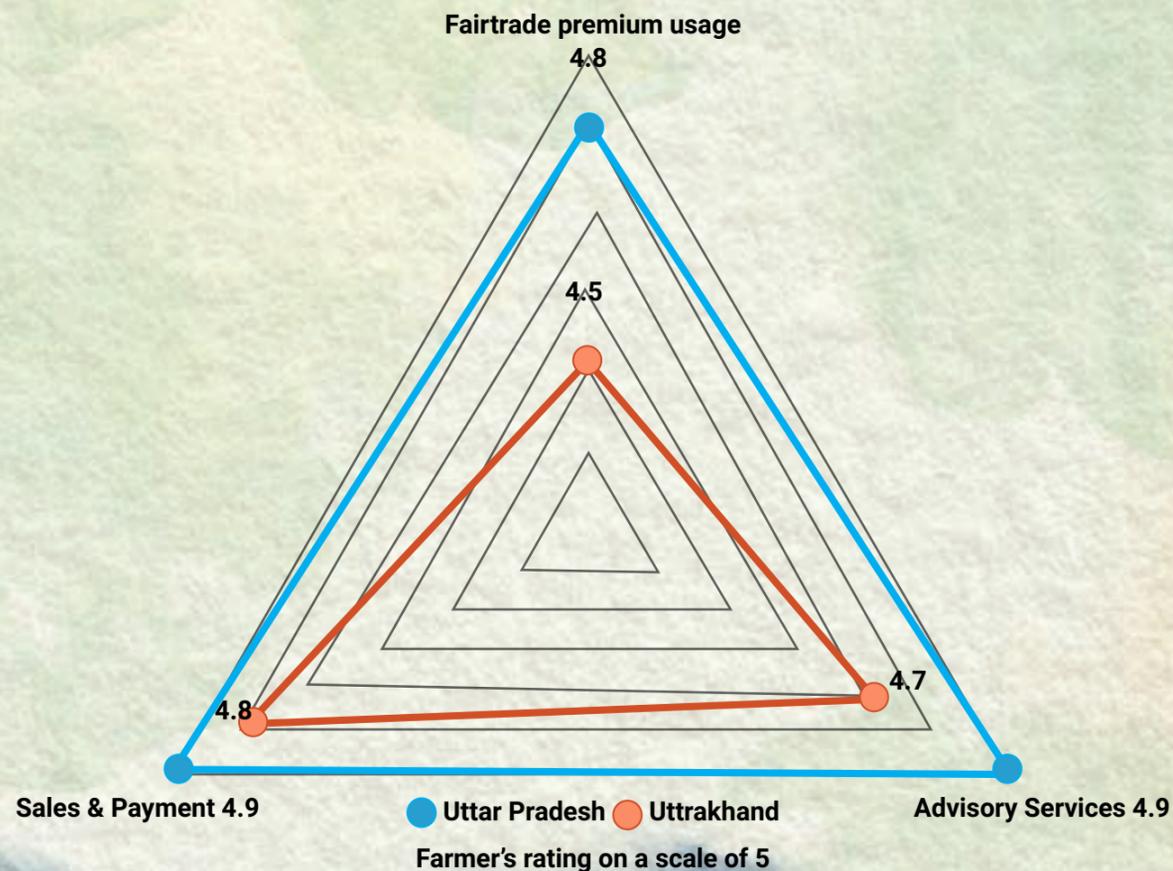


## SATISFACTION LEVEL OF THE BENEFICIARIES

The survey consisted of gathering satisfaction levels of the beneficiaries on various services provided by the project since its inception. The data was captured on a 1-5 rating scale based on the farmers response.

Satisfaction level of the beneficiaries was captured on the following categories:

- Satisfaction level of the Advisory Services
- Satisfactory level of the process and timing of Sales and Payments
- Satisfactory level of the usage of FT Premium



## CONCLUSION

This evaluative study is conducted broadly to gauge the overall impacts on the Fairtrade Project, governance structure at place, operations of the value chain, business management and satisfaction level of the key beneficiaries.

Through scientific methodology for evaluating the project, it has been proven that the project has been pivotal in creating palpable direct and indirect positive impacts on the income enhancement, quality of the soil, reducing the input cost and overall socio-economic development of the communities where it has been established and running. The project has been successful in establishing a resilient, efficient, and sustainable value chain with proper

forward and backward linkages. Through a robust decentralized governance structure, the project has been effectively managing a large pool of farmers, distributing the benefits in the form of premium after consultation with the beneficiaries, creating awareness and providing machine support. It has been found out that all the partners and stakeholder work in tandem to deliver benefit to the last farmer. WEP has been proven instrumental in creating water stewardship amongst the community and has been working diligently on efficient use of water and availability through awareness programs involving key community stakeholders/beneficiaries and leveraging government policies through Gram Sabha and PRI members.

### GOOD PRACTICES

The following section describes the good practices that were observed during the evaluation of the project on the field.

- Self-sufficiency of agricultural inputs of the households
- Promoting youth to take up agriculture through skill building trainings
- Increased capacity of farmers to negotiate on areas such as pricing and availability of machinery
- Enhanced rice production in terms of increased yields per hectare as compared to initial phase of the project
- The Basmati Rice Value chain serves as a market linkage mechanism for marginal farmers of remote regions
- Effective communication and knowledge sharing of inputs, technology, fertilizer, and disease management
- Value addition through complementary projects and value chain partnerships such as WAPRO and biogas
- Reconfigured practices of the business management and institutional changes of the value chain ensures sustainability of the project
- Awareness and inclusion of efficient water management techniques such as Direct Seeded Rice (DSR), System of Rice Intensification (SRI) and Alternate Wetting and Drying (AWD) by the beneficiaries post the second phase of the project
- Procurement process at micro level (village level) has proven to be the most effective practice for the beneficiaries. Electronic weighing machine ensures a fair and transparent procurement process.

## SUPPLY CHAIN - FARMING FIRST



Brochure & Leaflets



Compost



Bioinputs



Vermi Compost



Biodynamic Prep



Input Treatment



Problem Identification



Training & Solution



Input Application



Data Collection at each stage



Harvest Advisory



Pre-harvest Sampling



Harvest Monitoring



Manual Threshing



Farmer Doorstep Procurement



Logistic & Dispatch with tagging for complete traceability

## SOURCING OF RAW MATERIAL

With global organic certifications and sustainability practices, we ensure a transparent and sustainable raw material sourcing process that safeguards the environment, the farms and complies with the workers' rights. **Nature Bio Foods is organic certified as per the Indian Organic Standard NPOP, EU Organics, USDA, Bio Suisse Organic, Demeter Biodynamics, and Naturland. In addition, our projects also comply with social standards and certifications such as Fairtrade from FLOCert Germany.**

In adherence to sustainability, depending upon the type of production and sizeable area, Nature Bio Foods works directly with farmers to produce agricultural raw materials that are as sustainable as possible. Some methods include using precious water

resources more efficiently, using organic methods, maintaining bio-diversity, having 100% traceability of the raw material, fair trade practices, and fair prices to farmers. To sum up, we have undertaken alternative cultivation techniques to reduce greenhouse gas emissions- an essential aspect of our projects.

As an organic company with a firm belief in its motto, Nature Bio Foods adheres to 100% raw material sourcing from certified organic farms only. We are directly involved in the growing, harvesting and processing of our crops. Simultaneously, we also engage in addressing the social and environmental issues at the farm level.





# Sustainable Lives



## Sustainable Lives

We are committed to making a difference in the communities, where we live and work. Our commitment to the community is at the core of everything we do. We focus on building long-term, innovative programs that have lasting and positive impacts.

## FARMERS & COMMUNITY

Nature Bio Foods has developed an innovative economic model to help farmers achieve financial sustainability and increase their net incomes. Improving crop productivity; using resources efficiently to cut the cost of production; increasing crop intensity; diversifying towards high-value crops; integrating community development, increasing farm income, and finally, improving the actual prices received by farmers.

**Food Security:** To increase household food security among the communities, Nature Bio Foods has supported the development of appropriate agricultural technologies, farmer innovations, local knowledge systems, and sustainable natural resource utilization. We have supported farmers with Doracycles, Drums for producing bio inputs, Paddy winnower fans, Knackshak spray pumps, dolmakers, tractor, Trolley, cultivator, Harrow, thresher, Levlor, Pudler, Lift Lakor Patela, Palta Hal, Rice Planters. We have also started Voice & text SMS services for the farmers to disseminate appropriate information & knowledge. We believe in tailoring genuine knowledge transfer to local challenges and culture for the economic prosperity of our farm members.

### Sustainable Organic Farming-

We support a comprehensive approach to helping smallholder farmers prosper, including access to more effective tools and farm management practices,

locally relevant knowledge & emerging digital technologies. As part of Nature Bio Foods activities, a team of over 200 Agri extension professionals, whom the farmers call organic farming doctors, interact with farmers regularly, visit their farms, suggest measures, provide training, and help the farmers on each stage of the crop. Since it is necessary to monitor the farms regularly, these organic farming doctors arrange their accommodations in villages themselves and are available for assistance 24\*7.

**Pest Management Practices:** Approximately **95% of the farmers registered with Nature Bio Foods manufacture their organic inputs**, switching to more environment-friendly farming systems.

Nature Bio Foods team focused diligently on teaching farmers how to prepare their own bio-inputs & Panchgavya from locally available materials using cow urine, cow dung, neem leaves, herbs, jaggery, turmeric, curd, etc. The results have equipped farmers to produce a healthy crop, ward off pest attacks, and save money spent purchasing from an outside source earlier.

## INCREASING INCOME FOR FARMERS



## FARM MECHANIZATION

Most of the farmers associated with Nature Bio Foods are small & marginalized and have small landholding. Unable to purchase costly farm implements and are forced to hire them from the market at a high price. Organic Agriculture Service Centers have been established to reduce time and drudgery, and enhance production. The efficiency of mechanization can be judged by the fact, that efficient machinery helps increase productivity by about 30%, besides enabling the farmers to raise a second crop or multi-crop. Thereby making Indian agriculture an attractive proposition.

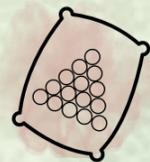


5

Agriculture service centres established & now run by local women by forming self help groups.



1200+ hours of Agri-implements-tractor used.



700+ Vermincompost kits.



1340

No. of times Farm implements- Tractors, cultivators, repair binder being used by the farmers from these centres.



600+ Spray Pumps.



5000+ farmers covered by providing subsidised seed, zinc, trichoderma, pseudomonas, bio-input.

## BRIDGING THE GAPS & CONNECTING LIVES THROUGH RURAL INFRASTRUCTURE

Nature Bio Foods has provided its support to unlock the growth potential of rural India. In creating tangible rural assets for sustainable development, focusing our attention on improving rural infrastructure development.



5 villages Roads & Drainage



Built 5 Culvert and Bridge



5 Community Centres Established



Built 100+ Toilets

# DELIVERING ACCESS TO SAFE DRINKING WATER

We have installed community level water treatment systems together with our project partners at various locations in different villages, Schools, PHCs.

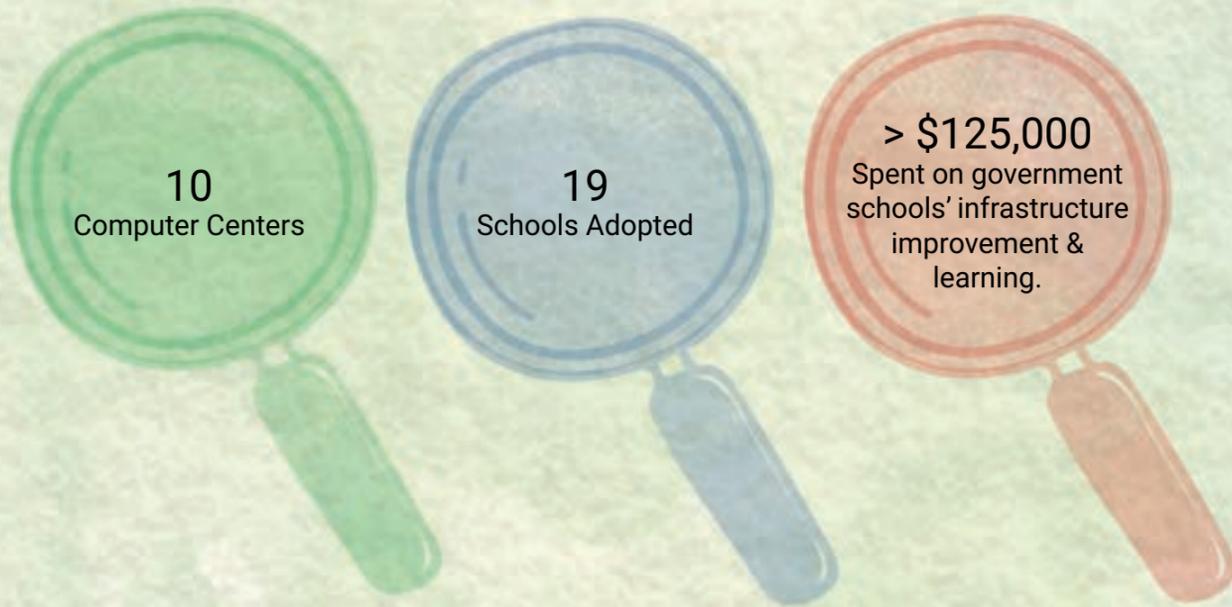
Covered  
20000+  
Beneficiaries

Providing 20+  
million Ltrs of  
clean drinking  
water annually



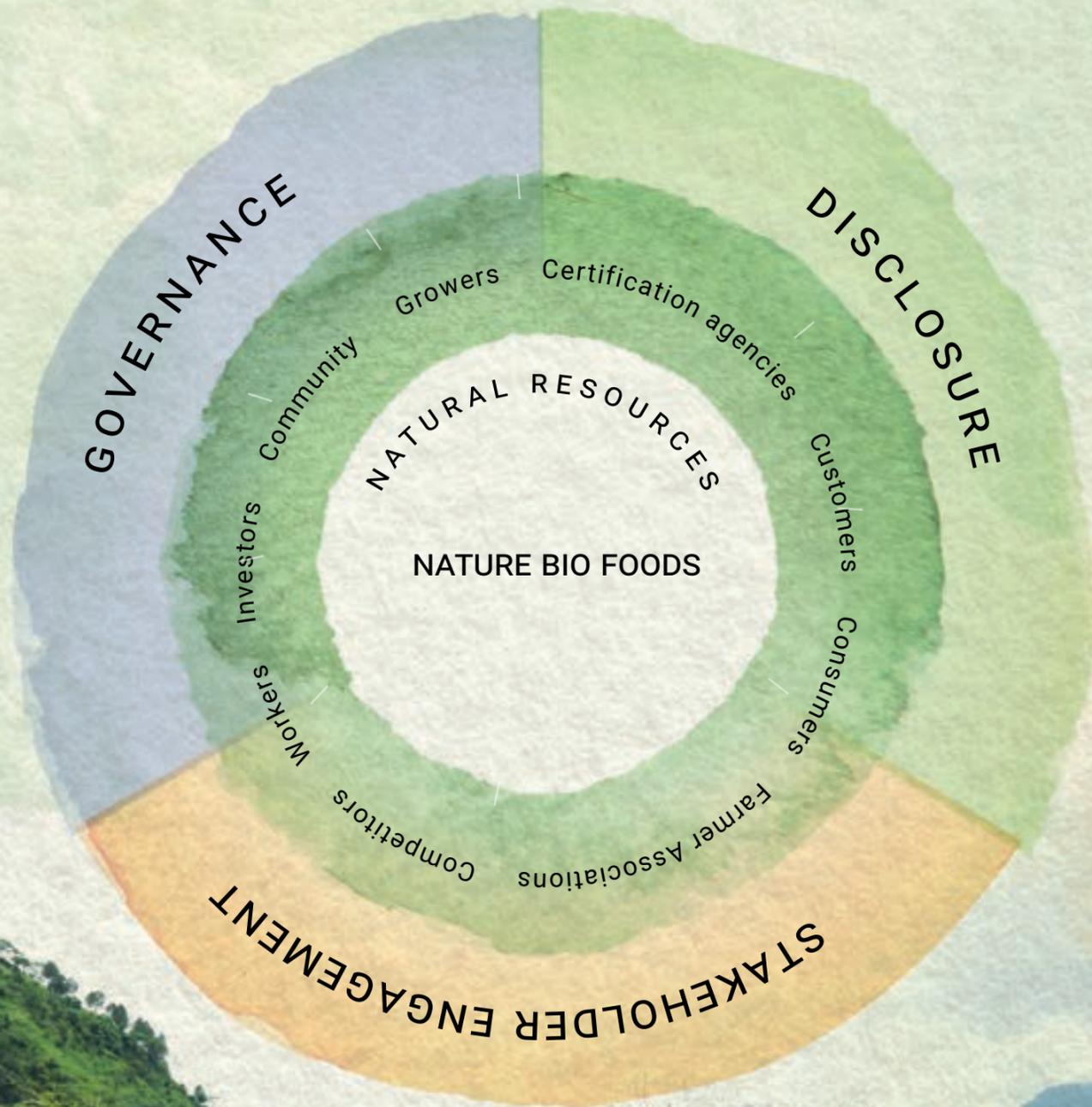
## ENSURING EQUITABLE & EQUAL ACCESS TO QUALITY EDUCATION

Nature Bio Foods is working to ensure that the poorest and most marginalized children can go to school and access quality education. Initially, we adopted schools in Madhya Pradesh, Haryana, and Uttarakhand that provide education to the Minorities, Economically Disadvantaged, Girls, and Socially Backward for holistic quality improvement focused on improving infrastructure & learning outcomes.



# TRUST IS THE FOUNDATION OF SUSTAINABLE DEVELOPMENT

Trustworthy relation between the organization and its stakeholders is the key to sustaining today's competitive business environment. We are investing in creating an ecosystem that secures our input, safeguards farmers' interests, and enhances farm yield.



# ONE TEAM WITH A BIG DREAM

At Nature Bio Foods, our employees are family. We apply our purpose and core values to create a safe, engaging, and diverse workplace, enabling our people to be their very best. We empower and encourage all our employees to tackle challenges head-on, push limits and have fun while creating products that inspire a healthier and more compassionate world.

## TRAINING & DEVELOPMENT

We designed and implemented comprehensive employee engagement and development programs to foster a conducive work environment and consistently provide professional and personal development opportunities to ensure the growth, development, and well-being of our workforce.

## SAFETY

We continuously invest in the safety and health of our FLMs as we believe that people are our most significant assets, and their well-being is first on our priority list. Additionally, we have introduced SOPs

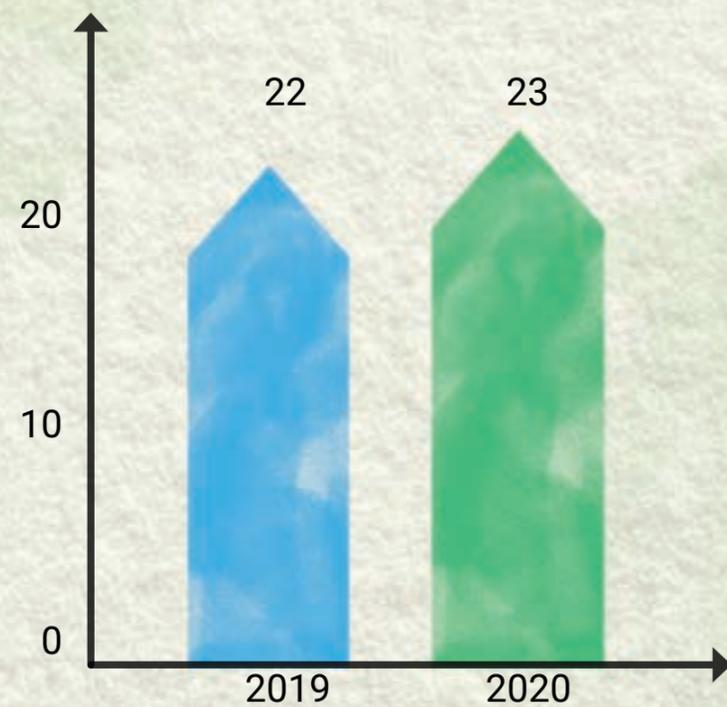
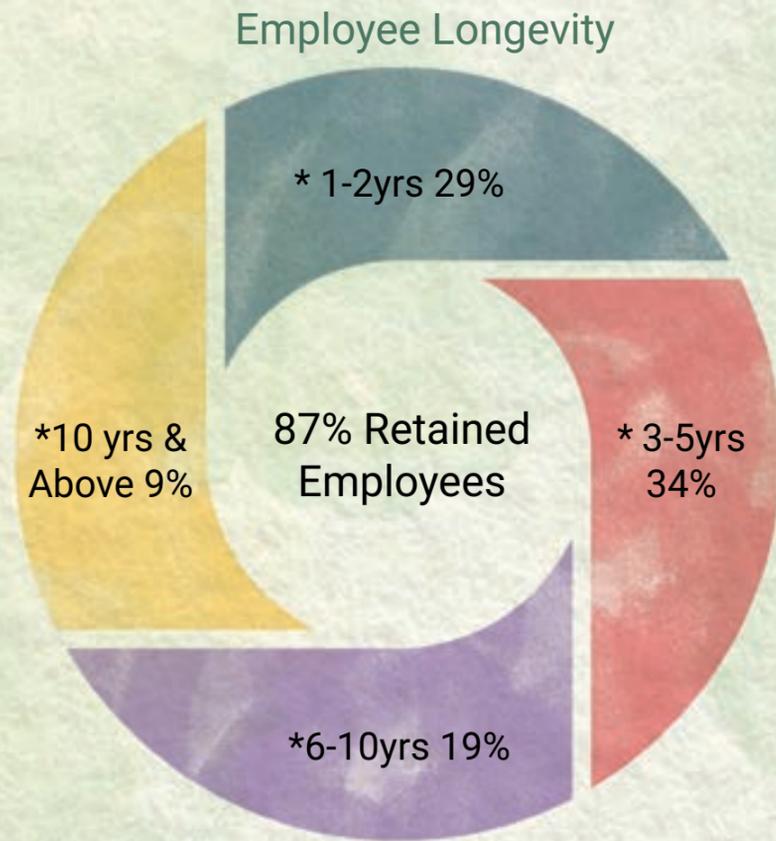
common to many industries but not usually seen in India's organic facilities. Like the work permit system, use of industry-grade Personal Protection Equipment like safety shoes and masks. We also iterated our focus on safety to everyone in the production line by starting a series of weekly safety meets to take stock of on-ground situations and address them promptly.

## SAFETY & EMERGENCY PREPAREDNESS

The only way to bring about a lasting impact on our safety performance is to root out hazards at the bud. A comprehensive safety management plan has been implemented at Nature Bio Foods, which incorporates best practices to address all key enablers of safety excellence: policies & processes, infrastructure management, awareness & training, implementation and audit, emergency preparedness.



## DEVELOPING OUR WORKFORCE



Training in hour per employee

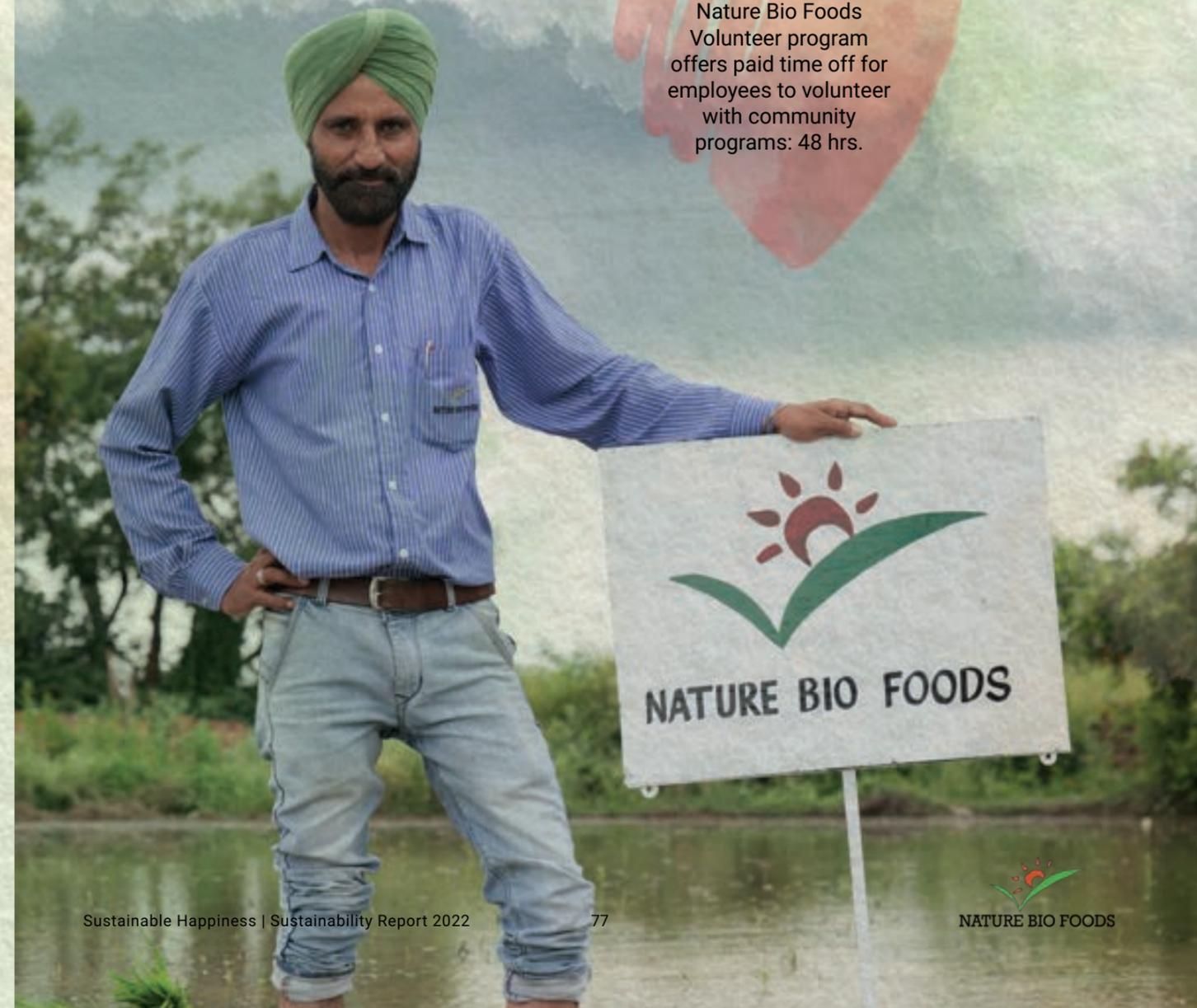
## EMPLOYEE WELLNESS

Provide growth and development opportunities for our employees to help fuel the power of the collective group.

Create strategies and programs that elevate the importance of diversity and inclusion with a continued focus on employee safety and well-being.

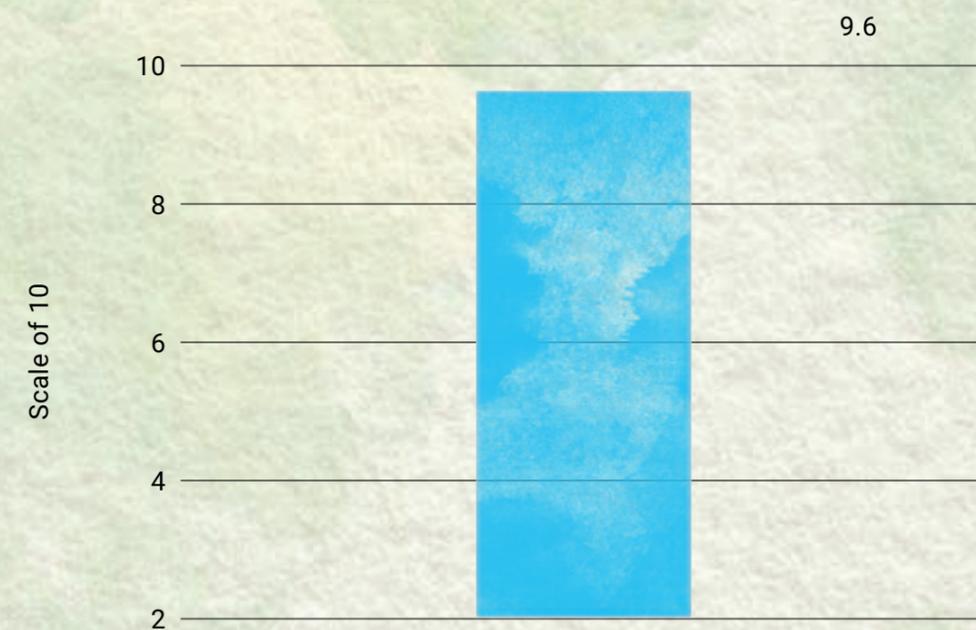
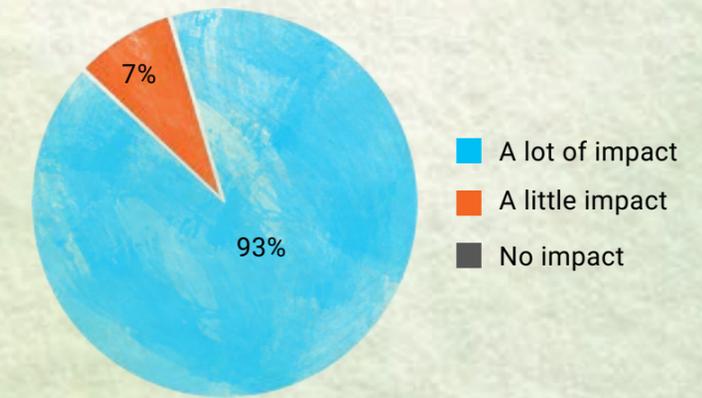
Continue to encourage employee-led community give back and employee-driven sustainability initiatives.

Nature Bio Foods Volunteer program offers paid time off for employees to volunteer with community programs: 48 hrs.



# THE CHANGE MAKERS INITIATIVE

Employees Volunteering program to support causes close to the hearts and giving back to the community in need.





# CO<sub>2</sub> Sequestration

## CO<sub>2</sub> Sequestration

As an environment-conscious company, Nature Bio Foods' environmental agenda aims to maximize resource efficiency and mitigate the negative impact of our operations on the ecology. We are certain that by making persistent efforts in this area, we will be able to enhance our sustainability footprint over the coming years and contribute to a greener society.



# CLIMATE CHANGE MITIGATION

Nature Bio Foods is striking the right Climate-Smart chord to Cope with the impact of climate change, to save on scarce resources like water & energy & to increase yield and income for farmers.

“We believe the need of the hour is climate-smart agriculture practices and technologies that save on

scarce resources like water and energy along with increasing the yields and incomes. Laser leveling has the potential to enhance productivity. We are working hard to educate farmers to engage in natural farming profitably through the optimum utilization of water & we urge more and more farmers to adopt new technology in agriculture”.

## YIELD COMPARISON



Covered +1300 small & marginal farmers and 3200 Acres.



Expecting to save 1200 to 1440 million ltrs of groundwater by yearly.



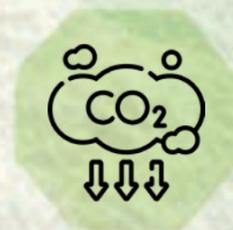
Increasing crop productivity by 8%.



Decreasing Irrigation time for rice by 47-69 hrs per ha per season.



Reducing electricity consumption by 755 kwh per ha per year.



Saving 210 tonnes CO<sub>2</sub>.

# POWER THAT BRIGHTENS HOMES, LIVES & SMILES



600 solar street lights installed in the projects.



>3500 Solar torch and lamps provided to farming families.



>13000 Incandescent bulbs replaced with LED bulbs.



# CLIMATE SMART PRACTICES

**11**

Stop Dams

**>2500**

provided energy efficient stoves & cookers to rural families

**425**

Bio Gas units

**90 FAMILIES**

Covered under roof top rain harvesting system

**6550 HA AREA**

Covered under water conservation project-9 village

**>4500 FARMERS BENEFITTED**

SRI & AWD practice have led to 24% lower water input

**>100000**

Fruit Saplings planted for environment conservation & Livelihoods

**>70 HECTARES**

destined for biodiversity

**>60000 FARMERS**

converting agro-wastes into valuable agricultural input.

NADEP, mulching, decomposition of remaining wheat and rice straws into the field instead of burning them

# GREENHOUSE GAS VERIFICATION



The inventory of Greenhouse Gas Emissions to represent a total amount of

**24,165 T CO<sub>2</sub>E**

Emissions by scope are as follows

**Scope 1 - Emissions 18.139 tCO<sub>2</sub>e**

**Scope 2 - Emissions 6.026 tCO<sub>2</sub>e**

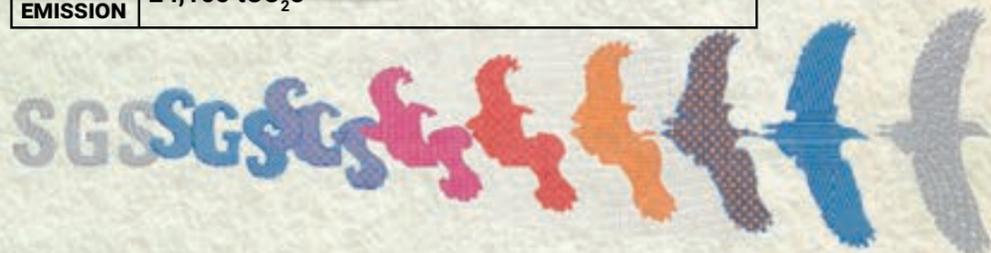
Food Processing Production and operations involving processing units of Nature Bio Foods in India. This data covers verification of emissions from anthropogenic sources of greenhouse gases included within the organization's boundary and meets the requirements of ISO14064-3: 2018.

The Organizational boundary was established following operational control approach and the operational boundary was established covering anthropogenic sources causing direct and indirect emissions

ANNUAL CALCULATION OF GHG			
S.NO.	SOURCE	UNIT	TOTAL EMISSIONS
A	ELECTRICITY	TON	6026
B	DIESEL	TON	255
C	PETROL	TON	3
D	LPG	TON	1
E	LUBRICANT	TON	3
F	WOOD CHARCOAL	TON	6908
G	WELDING ROD	TON	8395
H	STEAM	TON	359
I	HUSK	TON	53
J	CO <sub>2</sub> CONSUMPTION	TON	223
K	CO <sub>2</sub> LIQUID	TON	1939
<b>TOTAL EMISSION</b>	<b>24,165 tCO<sub>2</sub>e</b>		

S.N	CONSUMPTION	EMISSION FACTOR	UNIT
A	ELECTRICITY	0.91	KG CO <sub>2</sub> /KWH
B	DIESEL	2.66807	KGCO <sub>2</sub> /TON
C	PETROL	2.32567	KG CO <sub>2</sub> /TON
D	LPG	1.55491	KG CO <sub>2</sub> /TON
E	LUBRICANT	2.74	KG CO <sub>2</sub> /TON
F	WOOD CHARCOAL	2377.98	KG CO <sub>2</sub> /TON
G	WELDING ROD	3975.82	KG CO <sub>2</sub> E/TON
H	STEAM	0.16906	MT CO <sub>2</sub> E
I	HUSK	0.1	KG CO <sub>2</sub> E/KG
J	CO <sub>2</sub> CONSUMPTION	1	KG CO <sub>2</sub> E/TON
K	CO <sub>2</sub> LIQUID	1	KG CO <sub>2</sub> E/TON

LPG CONSUMPTION	589 KG
LUBRICANT	1051 L
PETROL	1361.81
HUSK	1361.81
STEAM MT	2121.981
WELDING ROD KG	2111.5
WOOD CHARCOAL KG	2905
ELECTRICITY KWH	2905
DIESEL LTR	95631.948
CO <sub>2</sub> CYLINDER (40KGCO <sub>2</sub> /CYLINDER)	9222960
CO <sub>2</sub> LIQUID GAS CYLINDER KG	1938627.148





Nature Bio Foods  
boosts CO<sub>2</sub> recovery  
with designed solution

## CO<sub>2</sub> RECOVERY ENABLED BY HIGH PRESSURE

Nature Bio Foods uses CO<sub>2</sub> pressure treatment to eliminate insects in their production process in order to guarantee product quality while complying with organic food standards. Using the designed solution, more than 80% of the CO<sub>2</sub> is recovered and reused.

### Without recovery system

CO<sub>2</sub> consumption  
per kg Basmati Rice  
60,3gram CO<sub>2</sub> per kg

Power consumption  
per year  
ca. 159,150 Kwh  
for Vaporizing of  
1,591,50 ton

### Through CO<sub>2</sub> Recovery system Installed by Nature Bio Foods

CO<sub>2</sub> consumption  
per kg Basmati Rice  
8.8 gram CO<sub>2</sub> per kg

Power consumption  
per year  
ca. 23,300 Kwh for  
Vaporizing of  
233,000 ton

Reducing the carbon footprint by 85%

CO <sub>2</sub> disinfestation	CO <sub>2</sub> -disinfestation - 11-pallets-TANDEM-system
Cylindrical length	13.000 mm
Diameter	2.200 mm
Operation pressure	15 bar
Volume CO <sub>2</sub> -system (each tank)	49,39 m3
Total pallets per batch	11 pallets
Total weight per pallet	ca. 1.200 kg per pallet
Total batches per year	2000 batches (yearly production: 4 charges/day per x 2 units x 5 days x 50 weeks)
Total kg per batch	13.200 kg per batch
Total capacity per year	26.400.000 kg per year
Specific weight of rice	ca. 0,75 kg per liter
Specific bulk density of rice	ca. 75 % per m3

	NATURE BIO FOODS	
Energy costs /CO <sub>2</sub> / total	without recovery system and without replacement body system	with recovery system include replacement body system
Year requires CO <sub>2</sub> annual	1.591,50 to	233,00 to
Consumption CO <sub>2</sub> per batch	795,75 kg	116,50 kg
Consumption CO <sub>2</sub> per kg	0,050 kg	0,010 kg
Consumption CO <sub>2</sub> per kg produced rice	60,3 gram	8,8 gram
<b>Electricity consumption per year</b>		
Vacuum pump installed motor power = 6,6 kw/h		
running time/charge = 2 x 18 min. = 3,96 kw/charge		7920 kw
<b>Air turbine</b> (approx.) installed motor power = 5 kw/h		
Air displacer Atm. into CO <sub>2</sub> = 2 x 45 min. x 2000 =	15,000 kw	
<b>Heater for air turbine</b> (approx.) installed Power = 30 kw/h	45,000 kw	
Temperature range -20° to +50°C = 1 x45 min. x 2000		
<b>Recovery compressor</b> installed motor power = 30 kw/h		
running time/charge = 2 x 40 min. = 40 kw/charge		80,000 kw
<b>Water bath vaporizer (Energy cost = 10% of consumption)</b>		
Without recovery 1,591,500 kg x 0,1 = 159.150 kw/pa		
Nature Bio Foods 233,000 kg x 0,1 = 23,300 kw/pa	159,150 kw	
Nature Bio Foods 233,000 kg x 0,1 = 23,300 kw/pa		23,300 kw
<b>Total electricity consumption (per annum)</b>	<b>219,150 kw</b>	<b>110,920 kw</b>



We are in the process of integrating sustainability into many aspects of our global business. As we do so, we understand the value of concentrating our actions and investments on where we can make the greatest positive impact.

# HOLISTIC APPROACH TO SUSTAINABLE RICE CULTIVATION

## SRI AND LAND LASER LEVELLING

Through Adaptation-led mitigation measure-Systems of rice intensification (SRI), and Land Laser Levelling, more than 50% of our farmers in our Uttarakhand and Uttarpradesh projects are saving resources and energy, building the crop's resistance to climate change.

As per the study and published research data of the project, it is saving over 30% water consumption.

## AWD

Over 30% farmers in our Uttarakhand project have adopted periodic drying and re-flooding irrigation scheduling approach. In this method, the fields are allowed to dry for few days before re-irrigation, without stressing the plants. AWD have a significant reduced water demand for irrigation and greenhouse gas emissions without reducing crop yields.



**LET'S ERASE OUR  
CARBON FOOTPRINT**

# 7



## CORPORATE GOVERNANCE



### Corporate Governance

It is a reflection of our culture, our policies, our relationship with stakeholders, and our commitment to values. We believe that our company shall go beyond adherence to the regulatory framework and accordingly, we always seek to ensure that our performance is driven by integrity.

## STRONG CORPORATE GOVERNANCE

The two basic tenets of Corporate Governance are transparency and accountability. They are an integral part of our business to ensure fairness for all stakeholders—our customers, investors, bankers, and society at large. We believe that a company, to be successful over the long term, must endeavour to continue its value creation for stakeholders as well as for society. Nature Bio Foods' approach towards enhancing shared value is guided by a set of strong principles and values set by our Board of Directors. Nature Bio Foods Board is an ideal mix of knowledge, perspective, professionalism, divergent thinking & experience. A set of systems and practices have been put in place to ensure that

the Company's affairs are being managed to ensure accountability, transparency, and fairness in all transactions in the widest sense. The objective is to meet stakeholders' expectations and fulfill social responsibility to the best of our capabilities. Nature Bio Foods is committed to the highest standards of ethics and integrity. We implement Nature Bio Foods code of conduct with the underlying belief of conducting business in a principled manner. This facilitates an ecosystem that is conducive to the company's members and associates. The codes set out principle guidelines to be followed by all employees and associates of Nature Bio Foods.



Whistle Blower Policy



Corporate Social Responsibility Policy & Committee



Administrative Policy



Internal Audit Control Systems



Risk Management



Prevention of Sexual Harassment (Posh) Policy

## INTERNAL AUDIT CONTROL SYSTEMS

Nature Bio Foods has a well-established system of internal controls and procedures, in line with the size and nature of its operations. We regularly conduct internal audits for operations, establishments, and stockyards to ensure that the set processes have been strictly adhered to. The management Committee reviews and evaluates the reports of the internal auditors on the operational efficiency of the internal control systems. The management

Committee then suggests improvements in the Company's business processes, systems, and internal controls. The annual internal audit plans are prepared by internal auditors in consultation with the management. We have implemented SAP, the world's leading ERP system, to automate the internal control environment and keep track of processes and performance.

The key constituents of our internal control system are:



## RISK MANAGEMENT

Nature Bio Foods' recognizes risk as an inherent part of business sustainability. Risks are inherent to any business. Nature Bio Foods' business is exposed to certain risks that are beyond its control. They are unpredictable and diverse weather patterns across its areas of operation, irrigation facilities, change in crop patterns, volatility in raw material supply, use of pesticides by farmers, infestation, and cost among others. Thus, the Company proactively identifies

risks and implements mitigation measures to ensure sustainable business performance. The Company has identified risks under each product category, developed an understanding, and prepared a mitigating response for each of them. These risks comprehensively cover the entire value-chain of business.

## SUSTAINABILITY GOVERNANCE

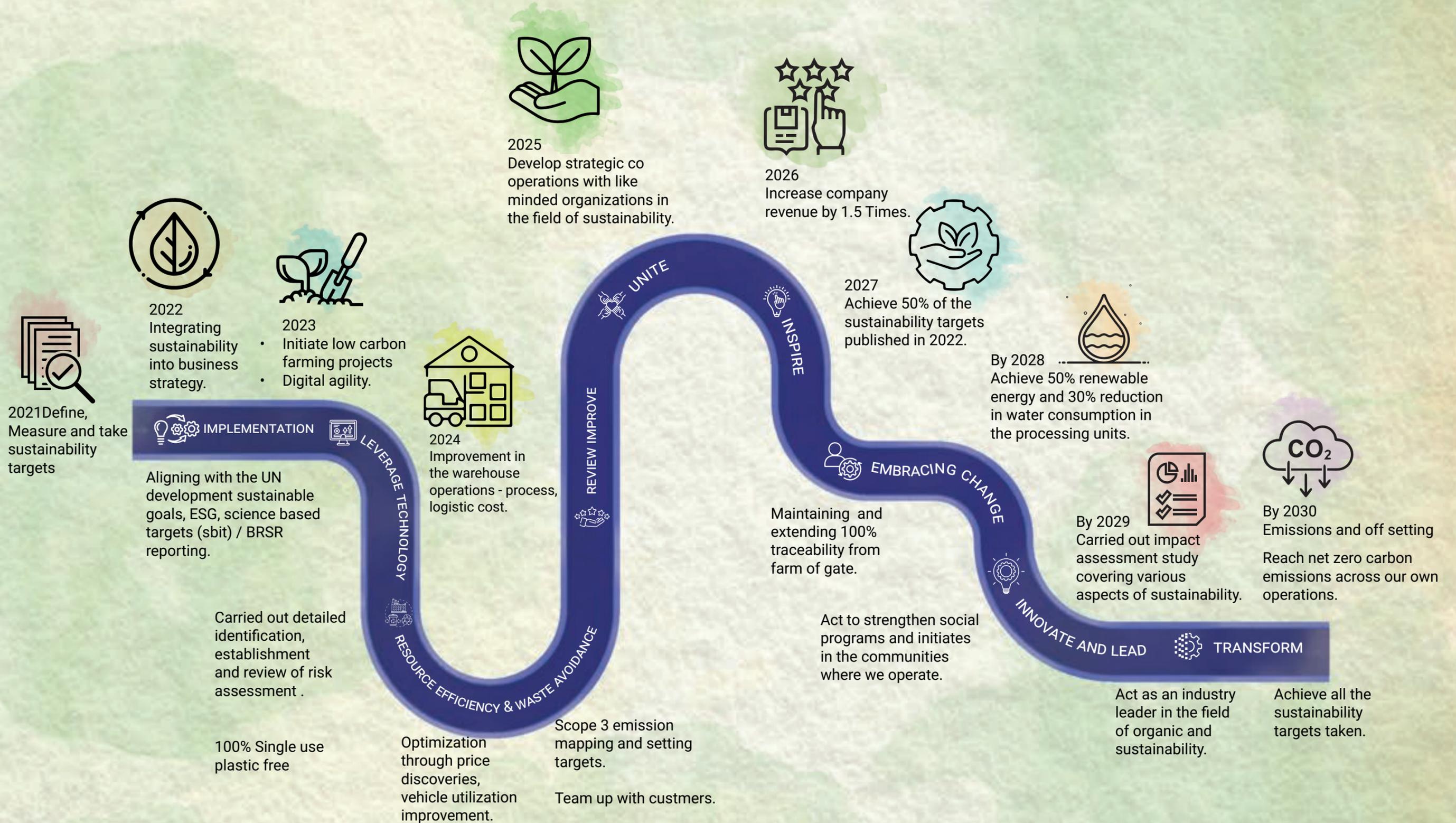
We recognize that sustainability is effective only if strongly integrated into organization and management systems. Therefore, in 2021, we introduced a new structure to promote sustainable business activities, from Board oversight to strategic planning to implementation and reporting. The Board of Directors is responsible for the overall corporate governance at Nature Bio Foods, which includes oversight of sustainability and corporate responsibility. As part of its role, the Board is responsible for enhancing the long-term value of Nature Bio Foods for stakeholders.

### Operational Approach to Managing Sustainability

In 2022 we intended to establish a Sustainability Council to drive sustainability integration across policies, activities, products, and services. The Sustainability Council will consist of Nature Bio Foods functional leadership. The Council will monitor risks, opportunities, and progress and remove barriers to support the integration of sustainability into the business. Nature Bio Foods Sustainability Team drives the implementation of Council decisions and leads or oversees the execution of reporting on sustainability initiatives and programs. Green Leaders will drive knowledge and best practice sharing throughout the business and provide expert insights to workstreams for the core team, promoting the integration of sustainability into day-to-day practices across Nature Bio Foods.

**We have to take action And put sustainability at the heart of Nature Bio Foods.**

# A CLEAR VISION FOR 2030



## OUR COMMITMENTS



## ENVIRONMENTAL ENDEAVOURS OUR COMMITMENTS - 2030



# SUSTAINABLE PRODUCTS & SUPPLY CHAIN

## OUR COMMITMENTS - 2030

Convert additional 60,000+ Ha area from conventional farmland to organic farmland, taking it to over 120,000 Ha



30% increase in the area under Biosuisse, Naturland, JAS and COR



50% increase in the area under Biodynamics and Demeter certification



5000+ Ha under regenerative organic certified area



Achieve enrollment of 10,000+ Farmers Under Fairtrade certification



Achieve 50% increase in the income of the farming families



Maintain 100% commitment to the quality and safety of our products to meet our customer expectations



# GOVERNANCE

## OUR COMMITMENTS - 2030



Achieve a minimum of 30% number of women strength combined in all processing units and offices of Nature Bio Foods.



Ensured zero child labour at our organic farms and processing units through strict implementation of Anti-child labour policy.



Integrating ESG as part of business strategy & governance.



Adopt BRSR business responsibility & sustainability reporting.



Achieve 100% applicable legal, environmental and social requirements.



Covering over 25000 farmers under digital capability and agility by 2030. Maintaining and extending 100% traceability from farm to gate



Carried out annual detailed identification, establishment and periodic review of Risk assessment.



Growing the financial top and bottom lines with a view toward the long term.



Counting externalities: knowing the true costs of operation, including social and environmental costs that don't hit a traditional balance sheet.



Finding win-wins through resource efficiency and waste avoidance.

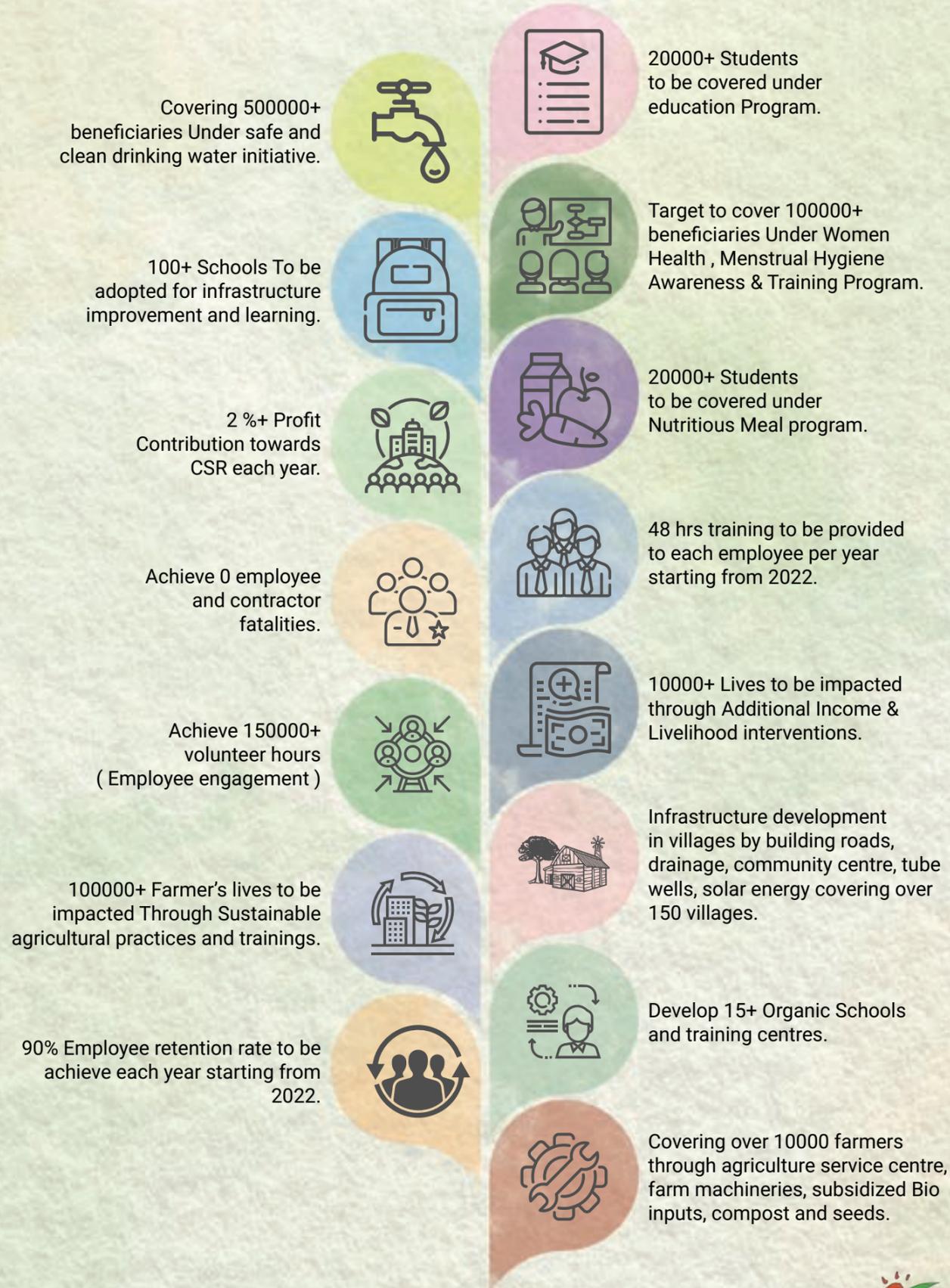


Creating value through authentic actions and messaging that drive trust, competitive advantage, and innovation.



Improve the effectiveness of the customer grievance redressal process.

## SUSTAINABLE LIVES OUR COMMITMENTS - 2030



## INITIATIVES TO COMBAT COVID-19

Nature Bio Foods is taking the onus and doing its bit of helping those in need during the Covid-19 pandemic. The global pandemic has shaken up the world, but above all, it has emphasized the urgency for sustainable behaviour and actions. We swiftly pivoted to stand strong with governments, administration, employees, and communities. Since then, together with partners, we have confronted the pandemic on many fronts, including reimagining existing projects to continue serving those in need.

The project team is holding daily sessions on precautions to be taken during the covid-19 for all the associated farming families, including training on hygiene, the importance of constant hand washing, sanitizers, and the need to wear masks.

With the support of partners and team members, we distributed over 23,000 soaps, over 10,000 Gamcha & masks, Food supplies to the migrant workers, and 2,000 RT antigen kits supplied to Sonipat District Administration.

Looking at the further requirement, the team has provided training and cloth to the women group to make & stitch hand-made cotton masks. Now they have also started production.

The project took the plunge to extend a helping hand to those caught in a dire state. We provided daily

wages, food, water, shelter and held medical testing to ensure good health. Further, with continuous coordination and with support from Government, the project team was able to get permissions to arrange buses and cars to help the migrant workers reach home to their families. We further provided subsidized seeds and inputs to support the farmers in increasing their income in this economic crisis.

### Get Vaccination Program

The company launched the 'Get Vaccination' program to encourage its employees and their families to get inoculated and born the cost of vaccination for staff. The company ensured 100% vaccination for its employees. Furthermore, procured stock of oxygen concentrators at various locations for mildly affected employees or their families.

Nature Bio Foods has also secured COVID insurance for its employees, covering the costs of hospitalization and home isolation. This policy supplements the existing Group Medclaim coverage policy for employees and their families. With the help of our partners, the project also supported the Government facilities during pandemics with masks, sanitizers, digital infrared thermometers, and disinfectants.





## NATURE BIO FOODS

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