

Japan-India Model Farm Project in UP

29 September 2023

Ministry of Agriculture, Forestry and Fisheries

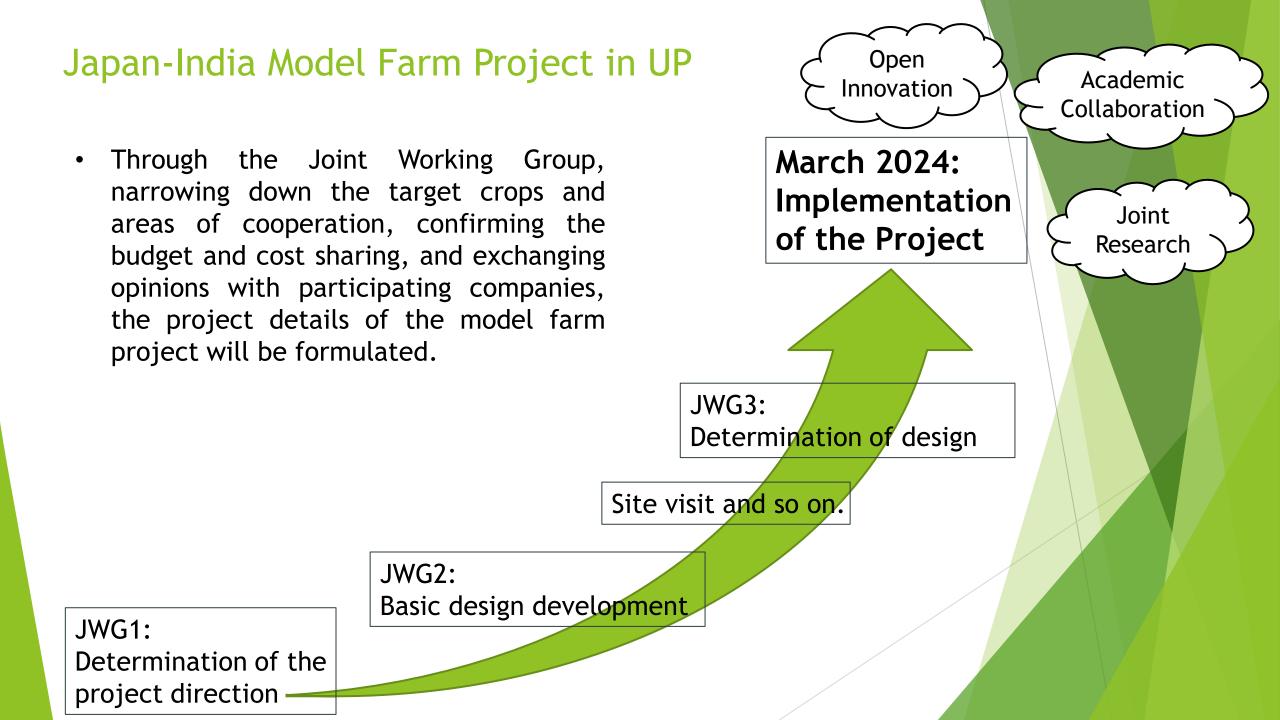
MAFF JAPAN

Background

- In 2021, Memorandum of Cooperation was signed at the request of the UP gov in 2020.
- The CSAU demonstration field was intended to have a model farm set up, but the study was suspended immediately after the COVID-19 infection outbreak became serious.
- In 2023, MAFF Japan, UP Gov and CSAU officials were consulted and agreed to set up a joint working Group to establish a Japan model farm.

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Department of Agr	iculture Education &
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Govt. of	U.P. INDIA





Narrowing Down the Target Crops and Areas of Cooperation Low Buying Power Target Crops Topics for Fertilizers, Beet Pesticides, Grains Productivity Corn Rice Wheat Solar Post-harvest Genetic Mechanization Food Processing Farm Size Potato) Fencing Technology Improvement In Farms Oilseed Value Intensive Pulses **Decrease Losses** AI/IOT Addition Cultivation Tomato) **Conventional Machines** Sugarcane Food Supply Chain Less than 1 ha Technology Mango` Senser Tech \rightarrow 80% Farmers Drones Banana Irrigation

Company Name: Escorts Kubota Limite	ed		
	Office in India :18/4, Sector 15 Rd, Sector 15A, Faridabad, Haryana 121007		
Brief introduction of company business: Indian multinational conglomerate that operates in the sectors of agricultural machinery, construction machinery, material handling, and railway equipment.			
Main: Farming AdviceAdviceIf needed: Tractor and OtherAgricultur	ral Material and y / Equipment		
Introduction of Product/Technology: Under "Companies (Corporate Social Responsibility Policy) Amendment Rules, 2021", 2% or more of net income for the most recent three fiscal years must be spent on CSR-related activities. Escorts Kubota Limited is seeking CSR activities and discussion with Chandra Shekhar Azad University of. Agriculture and Technology (CSAU). Basically, Escorts Kubota plans to provide farming advice to CSAU. Escorts Kubota already has similar activity in Haryana.	Model farm plan: Farming Advice to CSAU as CSR activity. Also, if needed, they can consider to provide their tractor and other machinery, and they welcome to collaborate with other Japanese companies.		



Headquarters: Kochi, Japan

Office in India :Neemrana Industrial Park, Rajasthan

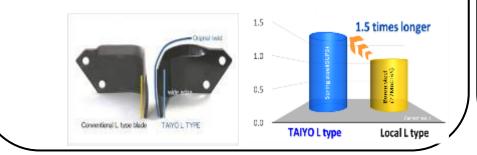
Brief introduction of company business:

Manufacture and sale of rotovator blades and blade shafts

Name of Product/Technology: Taiyo Rotovator Blade

Category: Agricultural Material and Machinery / Equipment **Target crop:** Preferable to cultivate harvested sugarcane or rice field

Introduction of Product/Technology: The Taiyo L Type blade is made with an extremely tough steel spring steel (SUP6) and has Taiyo's original twist. This product has an average useful life that is 50% longer than the useful life of common blades.



Model farm plan:

Demonstration of the Rotovator Blade attached with Indian / Japanese tractors. It is preferable to cultivate harvested sugarcane or rice field to demonstrate the cultivation capability.

Also, comparison with Indian blade at the site is expected.



Headquarters: Tokyo, Japan

Office in India :N/A

Brief introduction of company business:

Development, manufacture, sales and repair of ship and port equipment, hydraulic and pneumatic equipment, fluid equipment, defense and communication equipment

Name of Product/Technology: Straight-line automatic steering assist AG-GEAR3 Category: Agricultural Material and Machinery / Equipment Target crop: N/A

Introduction of Product/Technology: AG-GEAR3 straight-line automatic steering assist is a product that automatically

controls the handle of the tractor and enables accurate straight-line driving without the operator touching it. For some agricultural product, the tractor must be driven straight with an error of several cm. With equipment attached to the rear of the such as plowing, pesticide spraying, harvesting, etc., it will be more difficult. This product helps in that cases. **Model farm plan:** Demonstration of the AG-GEAR3 attached with Indian / Japanese tractors.



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Global Marketing Association Co., Ltd. GMA **Company Name**: Headquarters: Kyoto, Japan Office in India (if any): Bengaluru Brief introduction of company business: Marketing of Japanese products Target crop: Category: Name of Product/Technology: **Bio stimulant** cauliflower, watermelon, SOMRE melon, tomato etc Introduction of Product/Technology: Model farm plan: - Already have good result with rice, SOMRE is a bio stimulant that is soaked before planting seeds to promote growth. tomato, beans, egg plants. Also, we would like to demonstrate its - The more data we have, the better, so effectiveness as a foliar spray. we would like to demonstrate as many items as possible. - Demonstration with annual plants is helpful, but if it is possible to continue, we would like to demonstrate with \Box perennial plants as well. If root extend and reach laye water, plants can survive!

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Company Name: Nissan Steel Industry Co., Ltd.



Headquarters: Kyoto, Japan

Office in India : N/A

Brief introduction of company business:

Design, manufacture, and installation of steel, stainless steel, and aluminum products manufacture and sales of Freshmama freshness film

Name of Product/Technology:

Freshmama, Freshness preservation sheet

Category:

Post harvest treatment

Target crop: Mango, Tomato, Eggplant

Introduction of Product/Technology:

- The Freshmama sheet decompose Ethylene gas which make the fruits and vegetable rotten

- The Freshmama sheet inhibit the growth of microorganisms.

- It is possible to change mode of the transportation from air to ship.



Model farm plan:

- Put about 1 kg each of

fruits/vegetables in Freshmama bags and tested without closing the bags

- Test locally grown Mangoes and eggplants should be tested in the same way

- Refrigeration facilities are needed.





Headquarters: Gifu, Japan	Office in India : N/A			
Brief introduction of company business: Pluming, Applied technology development				
Name of Product/Technology: Solar sharing system Zero Water	: ole agriculture Cabbage etc			
 Introduction of Product/Technology: (1) Solar power generation equipment that can be installed like a roof over farmland. The energy generated can be used as energy to run various agricultural machinery, and absorb solar radiation energy (sunlight), which can be harmful if it exceeds the light saturation point (LSP). (2) Liquid agricultural materials called "zero water" that contribute to improved productivity and quality of crops. 	<section-header><list-item><list-item></list-item></list-item></section-header>			

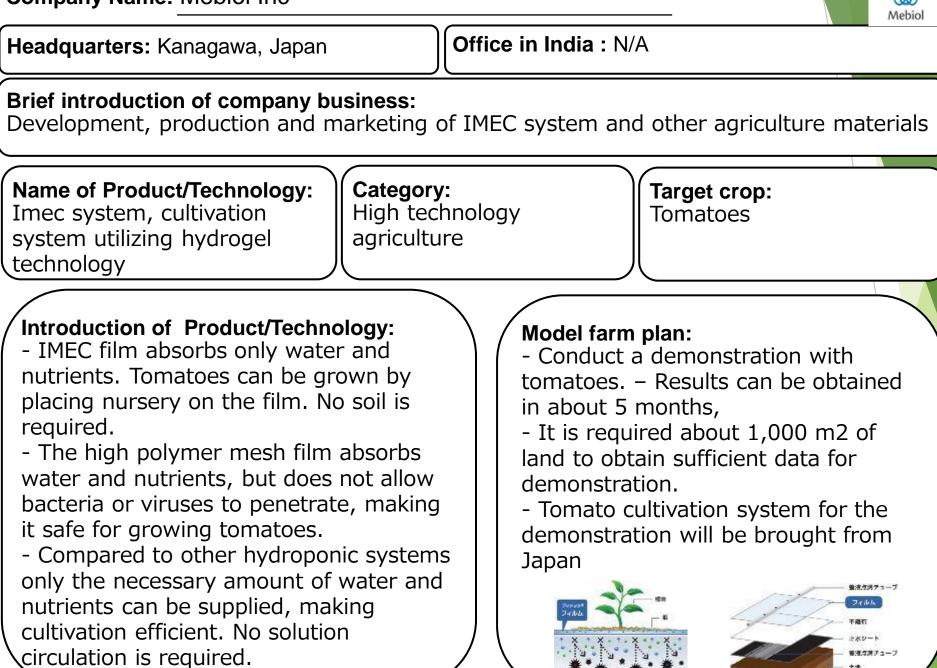
Company Name: TOMATEC CO., LTD.

TOMATEC

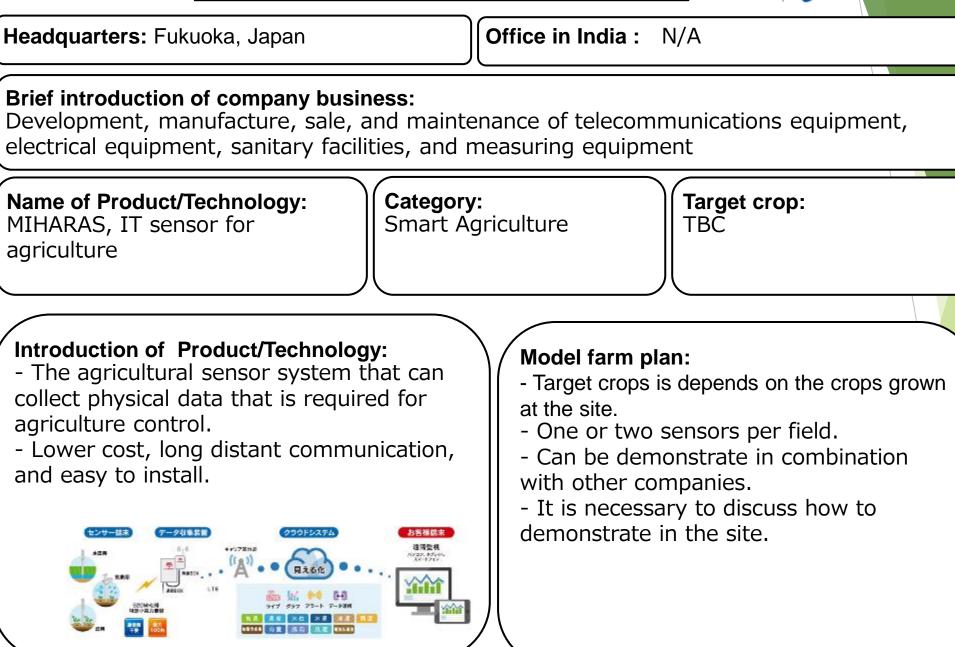
Office in India : N/A Headquarters: Osaka, Japan Brief introduction of company business: 1. Frit (multi-component inorganic glass) products, 2. Composite oxide products 3. Unsaturated polyester and other resin-based products 4. Trace element fertilizers Name of Product/Technology: Category: Target crop: Fertilizer Trace Element Fertilizer Mango, Beans, Tomato "F.T.E" (High additional value products) Introduction of Product/Technology: Model farm plan: - Propose optimal fertilizer type based on F.T. E. supports healthy growth of plants. By adding F.T.E to the usual soil analysis using our FTE - Evaluation of crop yield and quality NPK fertilizers, increased yield and improved quality have been observed. improvement (taste, color, quality retention period, size, etc.). F.T.E allows optimization of fertilizer type and amount based on soil analysis - Growth survey at least once a month - For mangoes, 10 plants at a time, 5 results (minimization of chemical fertilizers). Also, it provide good effect with F.T.E and 5 without F.T.E for organic fertilizers by adding what is - For tomatoes, cultivate same amount of lacking in organic fertilizers. tomatoes with and without F.T.E in 500m2 - Use locally used seeds



お原土地・成果 コンクリート

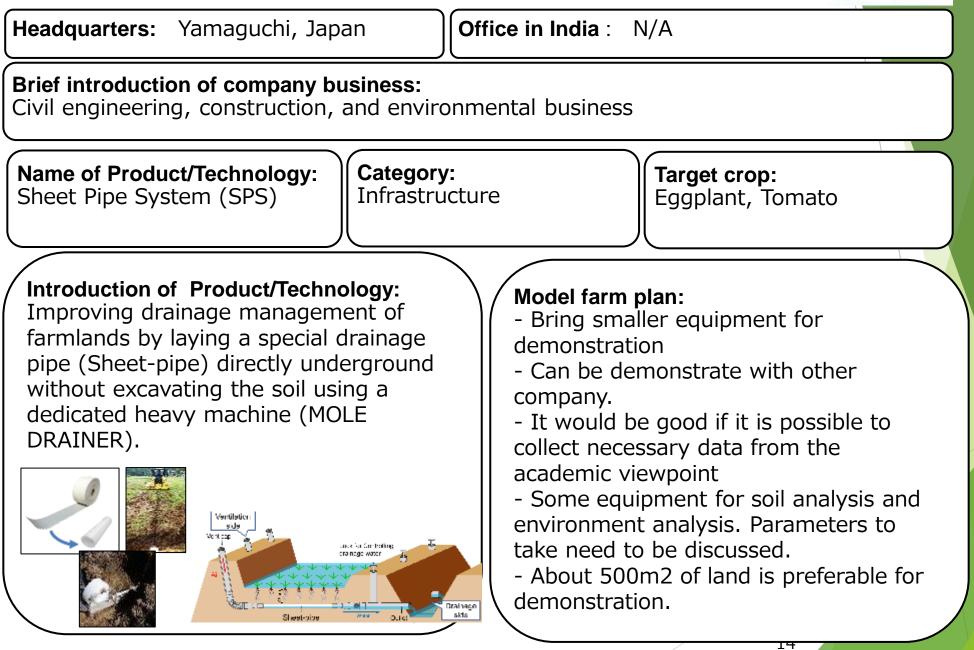






Company Name: Kyouwa Corporation





Company Name: Ac-Planta Inc.



Headquarters: Tokyo, Japan Office in India: N/A Brief introduction of company business: Research, development, production and sales of bio-stimulant with resistance to drought, high temperature and salt damage Name of Product/Technology: Category: Target crop: Bio stimulant Skeepon Any kind crop except for gourd family Introduction of Product/Technology: Model farm plan: - Skeepon is a bio-stimulant which make - Can be demonstrated with any kind of the plants strong against heat, draught products. Preferable to demonstrate with the higher value products. and salinity. - Skeepon can save water - Demonstrate with the 30 plant in one lot - Can be used for almost all kind of and 3-4 lot with and without Skeepon. - It is better to use in the dried land or do plants. the water saving test. - Skeepon is friendly for plants, human, - Can be used both nursery and planted animals and the environment, because plants. harmless, non-toxic, non-persistence and safe materials are used. 15

Reafference

Japan-India Model Farm Project in GJ

Overview

- The Japan-India Model Farm project in GJ has been implemented since 2019.
- The project sets up Japanese agriculture's model rooms to demonstrate Japan's agricultural technologies as a package in Anand district.





Project site: Anand district of Gujarat, India

Planted area: 40a

Cultivated variety: Tomato, Cucumber, Cabbage, Okra, Red Pepper, Eggplant...

Counterpart organization: SEWA: Self Employed Women's Association

Participant companies: 18 companies, include Water saving technology, Seeds, Pesticides, It and so on.

Starting Up Process



- 23 May 2019: Orientation Meeting
- 1-2 July 2019: Field Study
- 27 August 2019: Promotion Meeting (Kickoff)
- 11 October 2019: Project Design Meeting
- 27 November 2019: Inauguration Ceremony



Installed Species of Vegetable



Cabbage

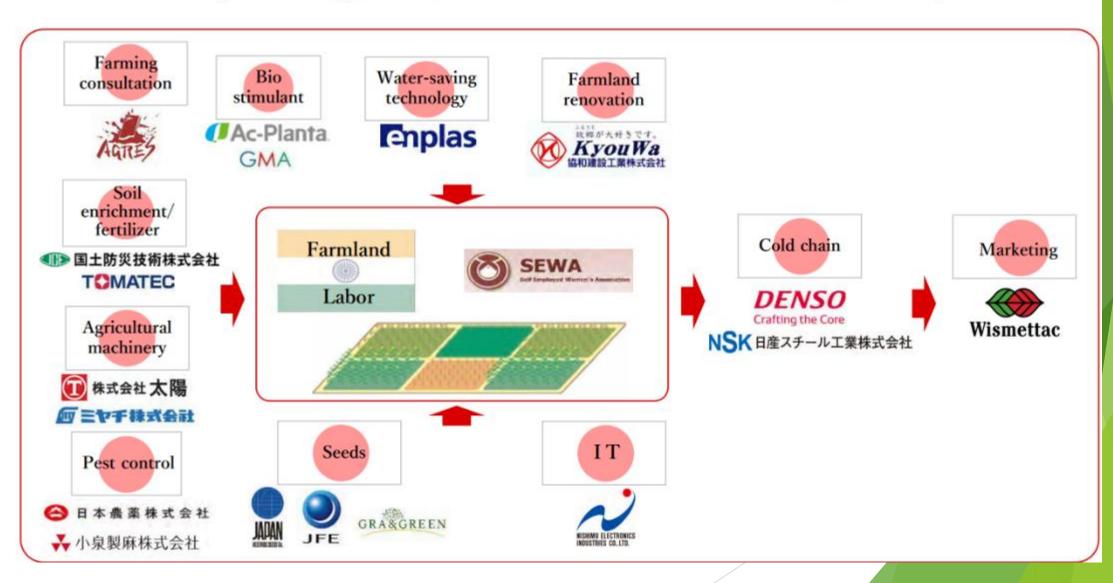
Locals with priceless smile

Juicy and flavorous cucumbers

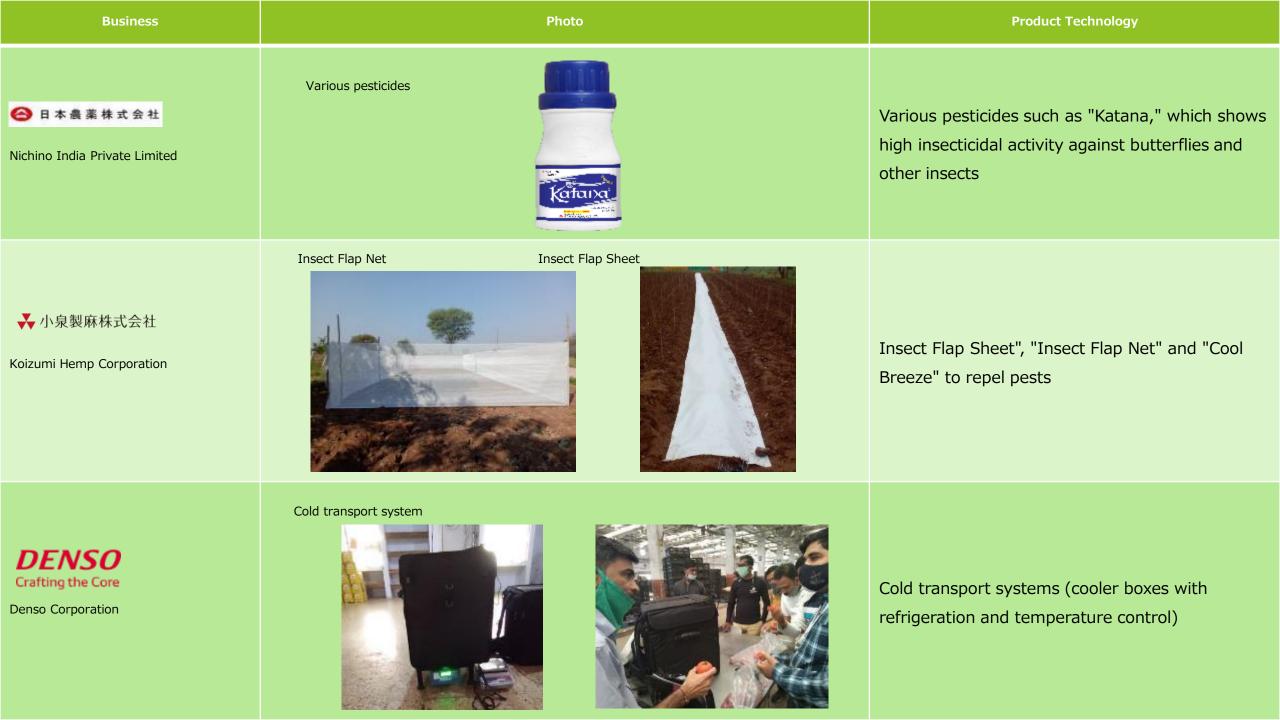
- 2019: Tomato, Cucumber, Cabbage
- 2020: Tomato, Mini-Tomato, Cucumber, Cabbage
- 2021: Mini-Tomato, Cucumber, Cabbage, Okura, Red Pepper, Eggplant
- 2022: Mini-Tomato, Pumpkin, Cauliflower, Redish, Watermelon

Participant Companies

Water saving technology, Seeds, Pesticides, IT and Cold-Chain etc._ 18 companies



Business	Photo	Product Technology
Enplus Corporation	Drip Irrigation Tubing	Drip irrigation tubing with pressure compensation with water-saving function
JFE Steel Corporation	Coated iron powder for direct seeding of paddy rice	Coated iron powder for direct seeding of paddy rice "Konabijin
NSK 日産スチール工業株式会社 Nissan Steel Industry Co.	Freshness-keeping sheet	Freshmama" Freshness Retention Sheets for Fruits and Vegetables



Business

Photo

Product Technology

🛈 株式会社太陽

TAIYO INDIA PVT.LTD.



Remote Confirmation System for Field Data

Tillage claw



Blue claw" tillage claw with high leveling performance, high durability, and horsepower saving

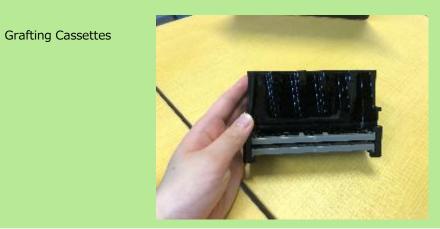


Nissim Electronics Industry Co.



Grand Green Corporation





MIHARAS: Remote Confirmation System for Field Data Using IT Sensors

Grafting cassettes for mass production of stable seedlings

Business	Photo	Product Technology
「「「これ子株式会社 Miyachi Corporation	Solar Spray	Solar power generation systems and solar sprayers (Solar Spray)
Kyowa Construction Industry Co.	Seat pipe system	Sheet pipe method" to bury water-absorbing pipes in shallow layers and generalize the use of agricultural land such as rice paddies
TOMATEC Corporation	Comprehensive Trace Element Fertilizer F.T.E	Manufactures and sells F.T.E., a slow-release, total trace element fertilizer. FTE contains a good balance of micronutrients and supports crop growth
 ●国土防災技術株式会社 GMA ●Ac-Planta National Land Disaster Prevention Technology Co. Global Marketing Association, Inc. Acplanta Corporation 	Plant-activating agent	FUJIMIN" plant activator made from highly concentrated fulvic acidSOMRE", an organic compound plant growth agent created from indoleSKYPON" biostimulant for fruit and leafy vegetables

Thank you for your Attention.

ASANO Daisuke

Counsellor

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Export and International Affairs Bureau

Ministry of Agriculture, Forestry and Fisheries

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