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Visit Report

As per University curriculum a study tour is compulsory for S. Y. B. Sc. Students to study agro based industry and Plant tissue culture laboratory. So our department organizes visit to Jain industry Jalgaon where we visit Plant tissue culture laboratory, fruit processing unit, onion dehydration unit as well as Gandhi Research foundation museum on / / 2016. During visit we get opportunity to study details of PTC lab, fruit processing, waste management as well as Gandhi Museum. The detailed information about the places is as follows.

About Jain Industry: - Jain Irrigation Systems Limited (JAIN) with more than 10,000 associates worldwide and revenue of more than Billion Dollars, is an Indian multinational company with manufacturing plants in 29 locations across the globe. It is an integrated player in global food system and leads in manufacturing of Micro Irrigation Systems, Plastic Pipes & Products, Agro Processed Products, Renewable Energy solutions, Tissue Culture Plants, Financial Services and other agricultural inputs since last several decades. It has pioneered a revolution with modern irrigation systems and innovative technologies using cutting edge research and development in order to save precious water and to get significant increase in crop yields using global agronomical knowledge for millions of small as well as large farmers. It has also ushered in the new concept of large scale Integrated Irrigation Projects. "More Crop Per Drop" is company's approach to water security and food security. JAIN is recognized by global institutions such as IFC (World Bank Group), Harvard Business School, G-20 etc. as leading practitioner of sustainable development and thought leader in new business model of "Creating Shared Value". All the products and services of JAIN help create a sustainable future while fulfilling its vision 'Leave this world better than you found it'.

About PTC laboratory:-

"Jain Tissue culture", working since 1995 for propagation and supply of '**Tissue Culture Planting Material**' in the country. The '**Oldest and Biggest Laboratory**' for Banana, Pomegranate and Strawberry in the world. The tissue culture unit is accredited to ISO 9001-2008 for quality management systems by TÜV NORD, Germany. '**Certified Tissue Culture Production Facility**' by Department of Bio-technology, Govt of India under NCS-TCP, supplies '**Certified Banana Planting Material**' which is the only laboratory of its kind in the country. What this lab offer, they offer you '**Minimum Resources, Maximum Produce**

Standard dehydrated white onion :-

Jain industries have set-up the most modern and integrated dehydration facility in the midst of a large onion and vegetables growing area. They supply high quality seed to our growers and get onions and vegetables grown on contract. These are harvested at the peak of maturity, flavor and taste and quickly transported to our processing facility. Manual harvesting enables the growers to supply clean and high quality produce demanded by Farm Fresh.

These raw materials undergo quality inspection, careful sorting & dehydration ensuring maximum retention of flavour, aroma, colour & taste. Dehydrated flakes are then carefully milled into different fractions on our State-of-the-art milling facility ensuring strictest sanitation, food safety and hygienic conditions. During milling, the products undergo metal-detection at the last stage and are then packed in bag-in-box. These are then stored under lower temperature and humidity and are supplied to the customers throughout the world. Elaborate marking, labeling and recording systems have been evolved to ensure complete traceability. Our dehydration facility is the most modern and integrated facility in the world and has been accredited with ISO 9001 & HACCP certification from RWTUV, Germany.

Farm Fresh Fruit Puree, Pulp & Concentrate are manufactured from selected fully ripened fruits, thermally processed and aseptically packed retaining the color, taste, flavor and aroma of fresh fruit.

Banana Concentrate and banana pulp:

These are made from selected clones of the Cavendish variety. Fully matured banana fruits are harvested and quickly transported to our fruit processing plant, declustered, inspected and washed. Selected high quality fruits go to controlled Ripening chambers. Fully Ripened fruits are again washed, peeled manually, mashed, deseeded when required, homogenized, concentrated when required, thermally processed and aseptically filled, maintaining commercial sterility.

Features and Specifications

- **Aseptic:** Eighteen months from the date of manufacturing when stored below 15 C. Product should be used quickly after opening the bag.
- **Frozen:** Twenty four months from the date of manufacturing when stored below -18°C.
- **Color :** Characteristics ripe Banana colour
- **Flavor :** Typical ripe Banana flavor
- **Taste :** Characteristics ripe Banana taste, slight acid note in acidified
- **Aseptic:** Available in 20 Kg Bag in Box packing as well as in 220/230 Kg Bag in Drum packing. Product can also be supplied in any other pack size as per customer requirement.

Frozen : Available in 200/260 kg bag in drum packing ,frozen form can also be supplied in any other pack size as per customer requirement

Papaya concentrate, pulp and puree:-

These are made from selected varieties of Papaya. Fully matured Papaya fruits are harvested, quickly transported to our fruit processing plant, inspected and washed. Selected, high quality fruits go to the controlled ripening chambers. Fully Ripened Papaya fruits are then washed, blanched, inspected, peeled, deseeded, pulped, centrifuged, homogenized, thermally processed, (concentrated when required) and aseptically filled, maintaining commercial sterility.

Features and Specifications

- **Aseptic:** Eighteen months from the date of manufacturing when stored below 15 C.
- **Colour :** Characteristics ripe Red Papaya colour
- **Flavour :** Typical ripe Red Papaya flavour free from off flavor
- **Teste :** Characteristics ripe Papaya teste
- Available in 20 Kg Bag in Box packing as well as in 215/225/228 Kg Bag in Drum packing. Product can also be supplied in any other pack size as per customer requirement.
- Every pack is labelled in accordance with current international legislations.

Gandhi Research Foundation:-

The Foundation is the initiator and promoter of 'Gandhi Teerth', an international centre for Gandhian study, research and dialogue. Its core objective is to preserve and promote for posterity the Gandhian ideology and legacy.

Gandhi Teerth (a holy abode) is a magnificent 65,000 sq. ft. sustainable structure located at Jain Hills, Jalgaon, Maharashtra, India. The structure made entirely in pink Jodhpuri stone is beautifully landscaped with sprawling lawns and is adjoined by mango orchards with mounded sit-outs and serene walk-ways. The entire green complex nestles between 300 acres of lush, afforested hilly terrain, and is noise-free and pollution-free. Residential facilities for researchers and guests are housed within the complex.

The edifice is built under green norms to last for many centuries. It has won the GRIHA-ADaRSH Award for low energy material application. It's architectural brilliance has won it the Artists in Concrete Award in 2013-14.

The initiative is sponsored by Jain Irrigation Systems Limited and Bhavarlal and Kantabai Jain Multipurpose Foundation, an in-house charity. GRF's Chairman is Padma Bhushan Justice Chandrashekhar Dharmadhikari, who was Gandhiji's protege at the Wardha Ashram. Padma Shri Dr. Bhavarlal Jain, Founder Chairman of Jain irrigation Systems Limited and a leading social entrepreneur, is the Founder Trustee of GRF. Shri Ashok B. Jain, Vice President, Jain Irrigation Systems Limited, is a Trustee. Padma Bhushan Shri D. R. Mehta (IAS), former Deputy Governor of the Reserve Bank of India and the proponent of the Jaipur Foot, the world's largest producer and provider of artificial limbs, is a Trustee of GRF.

Gandhi Teerth, promoted by Gandhi Research Foundation, comprises the following facilities:

'Khoj Gandhiji Ki' museum: A thematic, state-of-art, interactive multimedia museum conceived and commissioned to disseminate Gandhiji's life-lessons and ideology, as also the saga of Indian independence movement.

GIRI (Gandhi International Research Institute) : The academic arm of GRF which will award diplomas, degrees and facilitate research in Gandhian studies.

GRF (Gandhi Research Foundation) Think Tank: A consortium of scholars who will deliberate on contemporary issues. It can independently study and opine on public policy matters such as peace, ahimsa etc.

Gandhiana : Collection, classification, indexing and synopsising of publications by and on Gandhiji.

Gandhi Archives : Preservation of archival publications related to Gandhiji and the Indian Freedom Struggle.

Gandhinomics : Rural Development/Outreach Programmes based on Gandhian ideology.

GRF has so far collected from authentic sources 7350 books, 4090 periodicals (Harijan, Navjeevan, Young India etc.), 4019 photographs, 75 films, 148 audio recordings of Gandhiji's speeches, and philately items from 114 countries.

This visit was very fruitful and enjoyable for all students. We are thankful to our faculty Prof. Smt. V. A. Gagarepatil, Prof. shri. S. B. Jadhav for organizing visit also special thanks to Principal Dr. P.V. Rasal and Vice Principal Dr. R. M. Chintamani sir for providing permission and inspiration for visit.



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