

The best bottomline is a farmer's smile.



Jain Irrigation Systems Ltd.

Small Ideas. Big Revolutions.®

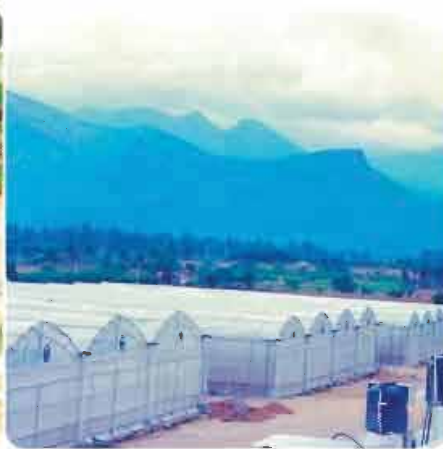
Corporate Product Profile

Founder



Bhavarlal Jain

Founder's Conviction



The Founder inherited farming instincts. Moreover, as a first generation entrepreneur, he also had hands-on experience regarding all aspects of farming.

A strong desire and determination to establish cutting edge technology propelled him on growth path with these convictions:

- In India, 70% of over 1 billion people are associated with agriculture. Agriculture symbolizes their culture, not only their economy.
- Transformation of our agrarian society into an industrial society will take centuries.
- In the meantime, there is no escape from taking the help of Science & Technology for agriculture, agri-business and agri-industry.
- Such an approach alone can ensure long-term food security, sustainable & inclusive growth and self-reliance.
- No other sector's progress, howsoever phenomenal, can substitute the development of agriculture. – April 1979

There is no gainful agriculture without irrigation. Therefore, availability and management of water holds the key for future agricultural progress – its production and productivity. "More Crop Per Drop" should become a national priority. – March 1991

Availability of water by itself does not guarantee higher productivity or production. Irrigation water has to be pumped right up to the farm boundary and thereafter distributed up to the root zone of the crop.

Growing population, urbanization, industrialization and cropping intensity will reduce overall availability of water for agriculture and increase the need for energy. Hence, water without energy or shortage and poor quality of energy will continue to be a bottleneck for future agricultural growth.

In keeping with our "conservation" theme, we shall promote use of green energy not only for homes or industries but also for agricultural applications. – June 1995



Corporate Philosophy



Mission :

Leave this world better than you found it.

Vision :

Establish leadership in whatever we do at home and abroad.

Credo :

Serve and strive through strain and stress;
Do our noblest, that's success.

Goal :

Achieve continued growth through sustained innovation for total customer satisfaction and fair return to all other stakeholders. Meet this objective by producing quality products at optimum cost and marketing them at reasonable prices.

Guiding Principle :

Toil and sweat to manage our resources (men, material and money) in an integrated, efficient, economic and sustained manner. Earn profit, keeping in view commitment to society and environment.

Quality Perspective :

Make quality a way of life.

Work Culture :

Experience : Work is life, life is work.

Guidelines :

Customer and Market

- Commit to total customer satisfaction.
- Build and maintain market leadership.

Quality Excellence

- Strive continually to reach and maintain quality in every aspect.

Safety and Health

- Secure safety and health of associates and other assets.

Environment and Society

- Protect, improve and develop environment
- Cherish the symbiosis and nurture creative partnership between society and environment.

Development of Other Stakeholders

- Adopt transparency and fair practices for continuous sustainable growth.



The Company

Jain Irrigation Systems Ltd. (JISL) derives its name from the pioneering work it did for the Micro Irrigation Industry in India. However, there is more to Jain Irrigation than Irrigation.

Jain Piping Division is the largest producer of Thermoplastic piping systems for all conceivable applications with pipes ranging from 3 mm to 1600 mm in diameter and in pressure ratings ranging from 1.00 kgf/cm² to 25 kgf/cm². JISL has a production capacity of over 5,00,000 M.T. per annum or 8000 km/day

JISL is the only manufacturer to own DSIR approved R&D setup with state-of-the-art facilities.

The pipes are manufactured conforming to IS, DIN, ISO, ASTM, TEC and other customised specifications.

The Piping Division includes PE, PVC Pipes and Fittings catering to the urban and rural infrastructure needs of the country apart from irrigation needs of the farmers.

The Micro-Irrigation Division manufactures a full range of precision-irrigation products, provides services from soil survey, engineering design to agronomic support and nurtures a sprawling 2300 acre Hi-Tech Agri Institute. It undertakes turnkey projects for total agricultural development. The division's pool of over 800 agri scientists, technologists and technicians are well equipped to render consultancy for complete or partial project planning and implementation e.g. Watershed or Wasteland and/or Crop Selection and Rotation.

The Tissue Culture Division grows Grand Nain Banana plantlets and has established vast primary and secondary hardening facilities and R&D labs.

Agricultural and Fruit processing wastes are converted to Bio-Energy to partially run the plant. The residue is Organic Manure. Neem-based pesticides are also formulated. Both are critical inputs for Organic Farming.

Agro Processed Products Division processes tropical fruits into Purees, Concentrates & Juices. The Dehydration facility dehydrates Onions & Vegetables.

Plastic sheet division's globally marketed products help conserve forests by providing alternatives to wood in the home building market.

Solar Energy Heating, Lighting Equipments, Solar Pump and Bio-Energy sources are new additions.

In a nutshell, the Corporation is the only 'one-stop-shop' encompassing manufacturing and marketing of hi-tech agricultural inputs and piping services as well as processing of agri produce. No wonder, it has distinguished itself as a leader in the domestic as well as global markets.

The corporate product range improves productivity and adds value to the agri-sector. Conservation of scarce

Natural resources, protection and improvement of the environment emerge as a blessed outcome.

The Corporation has 26 manufacturing plants and numerous offices across the globe.

The Corporation has pioneered and raised a new Micro Irrigation industry in India and thereby helped harbingers of a Second Green Revolution.

The reward has been over millions of smiling farmers and scores of customers in 116 countries.

Establishments



Drip and Sprinkler Irrigation Systems, Green Houses, Plastic Piping and Plastic Sheets : Jain Plastic Park, Jain Fields, Bambhori, Jalgaon, Maharashtra (India)



Drip and Sprinkler Irrigation Systems and Plastic Piping : Jain Agri Industrial Park, Udumalpet, Tamil Nadu, (India)



Drip and Sprinkler Irrigation Systems and Plastic Piping : Jain Plastic Park, Kondamadgu, Andhra Pradesh (India)

Establishments



Drip and Sprinkler Irrigation Systems and Plastic Piping : Jain Plastic Park, Alwar, Rajasthan (India)



Drip and Sprinkler Irrigation Systems and Plastic Piping : Jain Plastic Park, Bhevnagar, Gujarat (India)



R&D, Demonstration and Training Centre, Tissue Culture Lab and Agrl Bio-Tech Lab : Jain Agrl Park, Jain Hills, Jalgaon, Maharashtra (India)

Establishments



Fruit Processing : Jain Food Park, Jain Valley, Jaigaon, Maharashtra (India)



Onion and Vegetable Dehydration : Jain Food Park, Jain Valley, Jaigaon, Maharashtra (India)



Fruit Processing : Jain Food Park - II, Chittoor, Andhra Pradesh (India)

Establishments



Drip and Sprinkler Irrigation Systems : NaanDanJain Irrigation CS Ltd., Nean (Israel)



Onion Dehydration : Cascade Specialties, Boardman (USA)



Canned & Dehydrated Food : Sleaford Quality Foods Ltd., Sleaford (UK)

Establishments



Driptide and Pipe Manufacturing Equipment : THE Machine S.A. (Switzerland)



Plastic Building Products : Nucedar Mills Inc., Chicopee (USA)



HiTec Injection Molds & Hortunner Systems : Protool, Switzerland

Establishments



Fruit Processing : Jain Food Park - I, Chittoor, Andhra Pradesh (India)



Onion and Vegetable Dehydration : Jain Food Park, Dhobikuva, Baroda, Gujarat (India)



Solar Products : Jain Energy Park, Jain Valley, Jalgaon, Maharashtra (India)

Worldwide Operations



World Operation

🏢 Corporate Offices
 🏭 Plants
 🏠 Warehouse & Sales offices

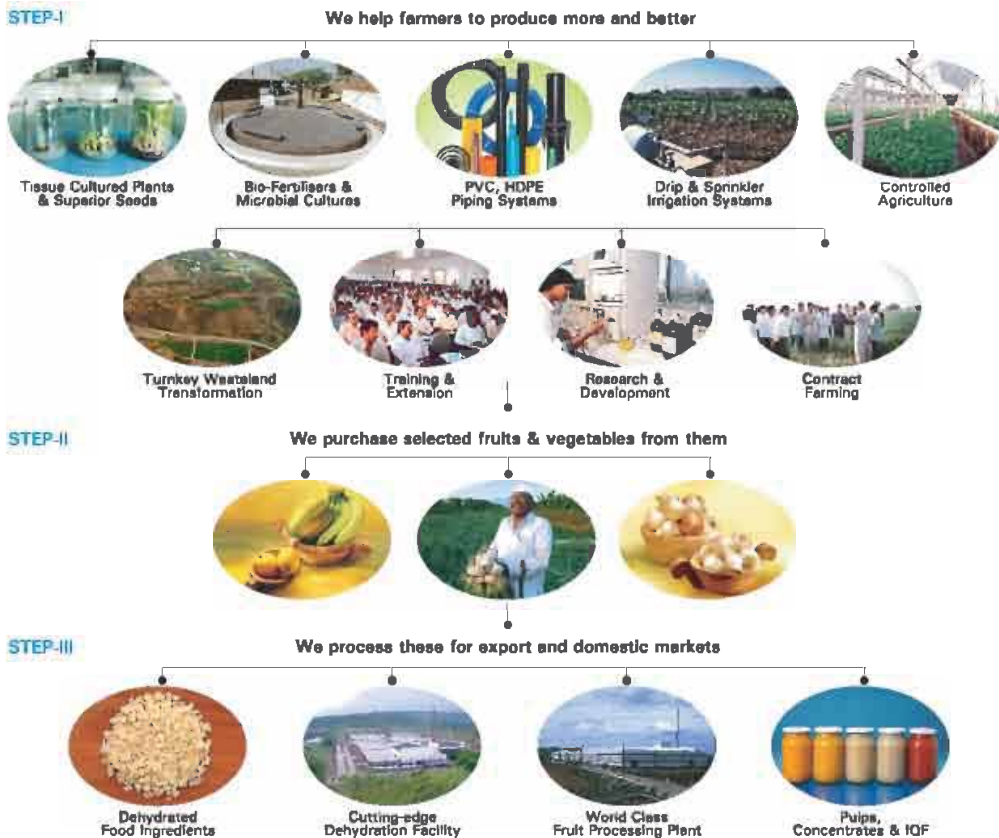
Continent	Plant	Warehouse & Sales offices	Distributor
South & Latin America	2	5	200
North America	5	7	257
Europe	4	9	253
Asia (Other than India)	3	-	26
Australia	1	1	150
Africa	-	-	15
Total	15	22	901

India Operation

🏢 Corporate Offices
 🏭 Plants
 🏠 Offices
 🚚 Depots

State	Plant	Offices	Depots	Dealers
Maharashtra	5	13	8	872
Madhya Pradesh	-	4	3	182
Karnataka	-	3	2	216
Gujarat	2	5	2	176
Tamil Nadu	1	4	6	85
Rajasthan	1	3	5	89
Andhra Pradesh	3	17	5	231
Other State	-	28	16	207
Total	12	75	46	2028

One-Stop-Agri-Shop



In an intensely specialised and highly focussed world, propagating and practicing an Integrated System Approach can make a world of difference.

We manufacture and supply Tissue Cultured Plants and Hybrid Seeds, Bio-fertilisers fortified with microbial cultures and soil fertility enhancers, Piping Systems for closed water conveyance, most cost effective yet very efficient Micro and Sprinkler Irrigation Systems as well as Green Houses and Shade Houses.

We undertake turnkey projects, both for small farm holders and large wasteland owners, offering soil and water survey and sampling, irrigation system planning, design and installation. We also provide after sales, crop rotation, agronomical and technical services and training for total transformation of the land and the farm. Our extensive research and experience help us give down-to-earth solutions for complex agricultural challenges. Our large demo-farms display agro-technology in operation.

We are engaged in 'Contract Farming'. We buy back farm produce at pre-determined prices from over 5000 farmers and provide them with all the required inputs & comprehensive services through Jain Gram Sewaks. Bankers are brought in for timely and easy credit availability. Contract Farming is a win-win proposition for Bankers, farmers as well as ourselves.

The select produce that is purchased gets processed in our ultra-modern processing facilities for the domestic and export markets.

This integrated approach results in a value addition at every stage and completes the agricultural value chain. It makes Jain Irrigation a unique 'One Stop Agri Shop'.

R&D Thrust Areas



Hi-Tech Agri Inputs

- Evolve OP & hybrid high TSS onion varieties.
- Standardise farm agronomic practices for higher resource productivity.
- Introduce selection of virus-free high yield banana clones.
- Develop new varieties of pomegranate for quality fruit & juice and multiplication of disease free plants through tissue culture.
- Evolve new cultivation methods like Ultra High Density Plantation and associated techniques for Mango, Guava, Citrus, Cashew, etc.
- Standardization and economic analysis of using Micro Irrigation System for food grain crops like rice, wheat, pigeonpea, groundnut, soybean, etc.
- Selection and evaluation of processable orange varieties cultivation.

Agri-Processed Products

- Develop economic onion preservation practices.
- Establish natural ripening process preserving flavours.
- Selection of new mango cultivars/hybrids for regular bearing & higher yields and prevention of die back.
- Explore better nutraceutical property onle cultivars.
- Develop process for citrus & pomegranate juices.
- Develop dehydrated fruits.

Irrigation & Plastic Piping

- Collaborative research on fertigation and irrigation scheduling with national & international institutes.
- Modernization of canal regulation for on demand water supply.
- Corrugated Large Diameter (upto 3000 mm) PE & PP Pipes.
- Inline automatic Screen & Media Filter
- Pressure compensating drip tape
- Development of low energy, low pressure drip irrigation system.

Plastic Sheets

Value added product development like, wooden finish, laminated, co-extruded and building products.



Hi-Tech Agri Products & Services

- R&D Demonstration and Training Centre, Tissue Culture Lab and Agri Bio-Tech Lab
- Turnkey Services and Hi-tech Agri Consultancy
- Tissue Culture, Hybrid and Grafted Plants
- Greenhouses and Nethouses
- Drip Irrigation
- Sprinkler Irrigation and Turf Irrigation



More Crop Per Drop®



Better Yield - Greater Profits.



Gravity Powered Drip Irrigation System



More Crop Per Drop®



More Crop Per Drop®



JAIN HI-TECH AGRICULTURE INSTITUTE



Education, Training & Extension



- Activities are organised under the auspices of Jain Hi-Tech Agri Institute (JHAI) for awareness and motivation especially amongst farmers.

- Residential accommodation is available for up to 100 participants in the Jain Gurukul. Two well equipped training halls with seating for around 80 and 220 participants are part of the Jain Gurukul for education & training.

- Programme Structure : 1, 3, 5, 15 day programmes can be customised based on following curriculum :

Watershed Planning : Rainwater harvesting, wasteland transformation, water management.

MIS & SIS : Design, installation, operation, maintenance, irrigation/ fertigation scheduling,

Controlled Agri : Green/Shade house design, installation, operation, maintenance, agronomy.

Organic Farming : Bio Pesticides, vermicompost, manure.

Crop Specific : Irrigation, fertigation, agronomy, plant protection.

Field Visits : Corporate, contract and farmers' field visits.

- **Audience :** Farmers, Government Officers, Bankers, Agri Students, Dealers, Staff & Operators.

- **Languages :** Marathi, English, Hindi, Tamil and Telugu translator assist in any language.

- **States :** Assam, AP, Bihar, Chhattisgarh, Gujrath, Haryana, Himachal, Karnataka, Maharashtra, MP, Manipur, Orissa, Punjab, Rajasthan, TN, Uttaranchal, UP.

- **Countries :** Sri Lanka, S. Africa, Zimbabwe, Kyrgyzstan.

- **Research programmes :** PG research in plant molecular biology & tissue culture for crop improvement.

- **Affiliations :** Konken Krishi Vidyapeeth, TNAU, Punjab Agri and NMU, Udaipur Agri, UAS Dharwad, Iowa State University, USA.

- **Extension :** 3 grounds with about 2000, 4000 & 5000 person capacities for conferences, seminars, symposia, tradeshow, exhibitions, workshops, farmers melas, etc.



Turnkey Services & Hi-tech Agri Consultancy



Water Supply & Irrigation Turnkey Projects

- Undertake projects from concept to commissioning.
- Recommend and design appropriate water supply and irrigation structures/systems.

Micro Irrigation Turnkey Projects

- Undertake projects from concept to commissioning.
- Recommend and design appropriate modern irrigation systems.
- Prepare irrigation schedules keeping in view various requirements/parameters.
- Advise on crop rotation and crop planning.

Wasteland Reclamation & Watershed Development

- Survey & determine land type, topography, water availability, soil quality and its fertility.
- Recommend & design structures, measures for soil conservation and improvement.
- Recommend, design and develop rainwater harvesting storages, reservoirs, drainage systems, structures and artificial recharging arrangements.
- Recommend and develop appropriate agro-forestry/ agricultural / horticultural Plantations.

Training & Management Support

- Design and implement comprehensive class-room as well as on-farm training courses for farm operating and managerial personnel.

R&D, Demo and Agronomic Support

- Arrange on-farm visits for exposure to various research experiments and trials being conducted on the corporate, contract and/or leased farms.
- Provide agronomic and commercial support for agricultural operations.

Specialised Services

- Render advice on and prepare action plan for specific crop cultivation and/or organic farming.
- Organise farm events including melas, workshops, seminars, exhibitions, conferences and symposia.



Tissue Culture Planting Material Seed & Grafted Plants



Banana, Onion & Pomegranate

Process (Banana)

Banana Sucker selection from own mother nursery. Virus indexing, initiation, multiplication and elongation and rooting. Primary hardening in the Greenhouse. Secondary hardening in the Poly-cum-Shade house. Field Transfer.

Process (Pomegranate)

Selection of initial tissue from mother plant grown under protected condition, Bacterial indexing of the tissue prior to use for propagation, Establishment of the disease free indexed tissue on nutritive growth medium under sterile condition, Plantlet regeneration from established tissue under sterile condition, Root induction to the regenerated plantlets under sterile condition. Primary hardening in the green house of the in vitro rooted plantlets. Secondary hardening in the poly-cum-shade house of the primary hardened plantlets. Field Transfer of the secondary hardened plants.

Hybrid Onion Seed Process

Pollinating a female parent of a given variety with a male pollinator of a different variety. Grafted Plants Process

Insertion of a scion of desired cultivar into a root stock to form an organic union ensuring growth.

Highlight of production facilities

Facility is Certified for ISO 9001:2008 by TUV NORD CERT GmbH, Germany.

Recognized Tissue culture laboratory recognized under NCS-TCP by DBT, Govt. of India.

Received commendation certificate for Rajiv Gandhi National Quality Award 2007 for quality excellence achieved in tissue culture. Introduced tissue culture Pomegranate planting material first time in the country on commercial scale.



Greenhouses & Net House



Process

Construction of state of the art hot dipped galvanized lipped channel structures, closed rectangular structures and desired Galvanized steel tubular structures with roofing and walling of UV stabilized, diffused, IR, anti-fog polyethylene film and polycarbonate sheet single and multiwall, complete with cooling, heating, ventilation, irrigation, humidification, planting materials and control systems (manual, semi-automatic or fully computerized) for creating controlled environment so as to achieve higher productivity of cash end high value crops.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORO, Germany.

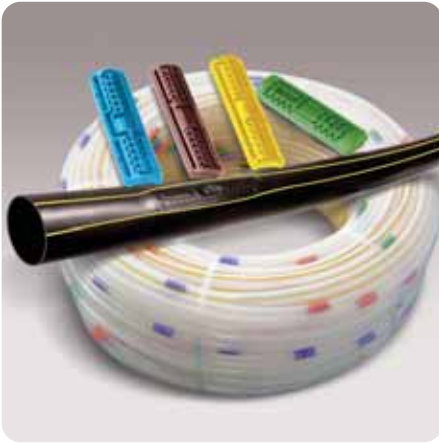
Salient Features

Different models for varied zones, climates and applications; turnkey assignments with integrated single source supply, design of structure and climatology, agronomic and irrigation knowhow, prefabricated nut-bolt structure, easy to assemble and dismantle, can withstand 120 kmph wind speed. Increased productivity reduced operating cost, leading to better commercial viability.

Tunnels, green houses and net houses are economical substitutes for creating semi-controlled environment for increasing yields, compared to open farm production systems.



Drip Irrigation



Process

- **On-Line** : LLDPE is extruded using a co-extrusion process to produce the multi layer polytube. Another extruder is used for marking yellow color twin stripes as our registered trademark.
- **In-Line** : During tube extrusion the Turbo in-line emitters are inserted inside the tube at pre-determined intervals.
- **Moulded Parts** : Emitters, Poly / PVC fittings, valves and various components of MIS are moulded in-house using different polymers on close loop micro-processor controlled injection moulding machines.
- **Filtration & Fertigation Equipments** : Screen and Disc filters are manufactured both in plastic and metal. Media filters Sand separator and fertigation tanks are manufactured in metal.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORD, Germany.



Drip Irrigation



Applications & Features

Product	Range	Standard	Applications
On-line Tubes (Polytubes)	up to 32 mm	IS:12788, AS2898,1 & ISO:8779	Orchards, Fruit crops
Oval Hoses	10 to 115mm	ASAE S:435	All crops
In-line Tubes, PC/PCAS/PCNL & NPC	0.8,0.8,1.0, 1.1, 1.3, 1.4, 1.6, 1.7, 2, 3.8 & 4 lph	IS:13488, ISO:9261	Vegetables, Row crops, Field crops, Greenhouse, Polyhouse, Shadehouse, Nurseries
Drip Tape (Emitting Pipes)	6,12, 16, 17, 18,19,20,23, 25mm 1/4", 6/8", 7/8", 9/8", 1-3/8"	ISO:9261	
Online Emitters PC, NPC & Anti leak	2, 3, 4, 8, 12, 14 & 15 lph	IS:13487	Orchards, Row crops, Vegetables, Polyhouse, Shadehouse
Bubblers: PC & Adj.Flow	1 to 10 lpm at 1kg/cm ²	IS:14505	Shrubs, Trees.
Jets, Sprayers, Foggers	up to 140 lph	IS:14605	Orchards, Nurseries, Greenhouses, Polyhouse, Shadehouse
Mini Sprinklers	up to 200 lph	IS:14505	Orchards, Vegetables, Nurseries, Greenhouses
Rainport Sprinkler Systems	up to 800 lph	IS: 12232	Field crop & Rowcrops, Nurseries

Salient Features

Increases crop yields and saves water. Useful even for problematic terrains, soil & water. Improved pest, disease and weed control. Effective for Orchard, Tree crops, Agroforestry crops, Plantation crops, Medicinal plants, Bio-fuel crops, Field crops, Vegetables, Pulses, Oil seeds, Sugarcane, Cotton and other row crops.

We undertake Turn-key Projects - Concept to Commissioning.



Sprinkler Irrigation & Turf Irrigation



Process

HDPE Granules are used for the extrusion of pipes and injection moulding of fittings. Metal risers and sprinklers are fixed on saddles. All fittings are butt fusion welded to the barrel pipes.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORD, Germany.



Sprinkler Irrigation & Turf Irrigation



Applications & Features

Product	Range	Standard	Applications
Sprinkler Pipes	50 to 200 mm (2.5 to 16 kg/cm ²)	IS:14151 Part I & II & IS:4984	Sprinkler Irrigation and other water conveyance uses.
Impact Sprinkler	25 to 43 lpm (2.5 to 6 kg/cm ²)	IS:12232 Part I & II	Field crops & closely spaced low income field crops/ Rainport systems
Raingun*	1.3 to 25 lps (2 to 7 kg/cm ²)	In-house	Field crops, closely spaced row crops, Sports field Irrigation & Dust suppression.
Pop-up Rotors & Sprays*	0.01 to 4.4 lps (2 to 7 kg/cm ²)	In-house	Landscapes, Golf courses & Sports field Irrigation.

Salient Features

Unique, Quick-Connect joint design ensures positive locking and leak-proof joints. Resistant to UV Rays & impact. Suitable for extreme site conditions.

We undertake Turn-key Projects - Concept to Commissioning.



Plastic Piping Products

- PVC Pipes
- Polyethylene Pipes
- Polypropylene Pipes
- PVC Fitting
- Polyethylene Fittings
- Polypropylene Fittings
- MDPE Pipes (Gas)
- Corrugated Pipes



Better B-Sure, Never be sorry!™

PVC Pipes & Fittings



Process

PVC Resin is mixed with other required chemical additives to form a ready-mix for Extrusion into Pipes. The compound gets plasticized inside the extruder barrel and pushed forward by the screw. The die and mandrel shape the molten mass and the calibrator fixes the size. The extruded pipe, cooled and hardened through cooling tanks and is pulled by the haul-off continuously. The cutter cuts off pipes in required lengths.

Fittings Process

PVC resin mixed with required chemical additives is fed into the hopper of injection moulding machine and gets plasticized as it passes through the barrel. The molten plastic is then injected into the mould cavity in measure quantity. After cooling, the component is ejected and the next cycle starts.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORD, Germany.



PVC Pipes & Fittings



Applications & Features

Type & Joints	Range	Standard	Applications
Pressure Pipes- SW / TH / RR	20 to 560 mm	IS:4985, ISO:1452 IS:12231, DIN:8062/8061 ASTM D:1785, 2241	Potable Water Liquid, Water & Chemical Conveyance
Casing- TH / SW / SL	1.5 to 20 inch	IS:12818, DIN:4925 Developed Inhouse	Water Wells
Screens: * -Plain- TH/SW	1.5 to 20 inch	IS:12818, DIN:4925	Water Wells & Sub-soil drainage
-Ribbed-TH/SW	1.5 to 18 inch	Developed Inhouse	
Riser / Column- TH / SL	1.5 to 8 inch	ASTMD:1785, 2241	Column / Riser
Plumbing- TH / SW	20 to 50 mm	IS:4985	Plumbing & Hand Pump
Plumbing- TH / SW	1/4 to 2 inch	ASTM: D1785	Plumbing
Cable Duct-SW	50 to 110 mm	IS:14787	Ducts
Conduit- SW	18 to 63 mm	IS:9537	Conduit
SWR-RR & SW	40 to 180 mm	IS:13592 IS:14735	Soil, Waste & Rain Water Systems
Underground Drainage and Sewerage RR & SW	110 to 250 mm	IS:15328	Soil, Waste & Rain Water Systems
Fabricated PVC Fittings	up to 560mm	IS:10124 ISO:1452 IS:7834 IS:14735	Potable Water Liquid, Water & Chemical Conveyance

* Different types of slots and perforation available.

SW - Solvent Welded, TH - Threaded, RR - Rubber Ring, SL - Sureloc

Salient Features

- Light weight.
- Non-corrosive.
- Rigid but strong.
- Easy to handle.
- Long life.
- Highly economical.

We undertake Turn-key Projects - Concept to Commissioning.



PE / PP Pipes & Fittings



Process

Polymer granules and masterbatch is fed into the extruder. The melt in the extruder barrel pushed by screw passes through die & mandrel acquiring pipe shape. The calibrator fixes the size and cooling through the tanks makes the pipes rigid. These pipes are then either rolled into coils or cut into suitable lengths.

Fittings Process

The Polymer granules and masterbatch are fed into the injection moulding machine. These get heated and melted through the barrel. The screw pushes the molten mass into the mold cavity after mold closure. On cooling, the component is ejected and another cycle begins.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company by TUV NORD, Germany.



PE / PP Piping Systems



Applications & Features

Type & Colour	Range(mm)	Standard	Applications
HDPE-Black with Blue Strips	20 to 1800	IS:4984 ISO:4427 EN:12201 AS / NZS 4130/5065	Potable Water
PLB HDPE Duct, 9 Different Colours	32 to 110	TEC GR No.GR/ CDS-08/02 Nov. 2004	Cable Ducting (Main & Micro Ducts)
PLB HDPE Duct, Spiro Zoom, 8 Different Colours	40	Company Standard	Cable Ducting
Jain Silicoat Multi Micro Duct	5/3.5, 7/5.5, 10/8, 12/8, 12/10, 14/12 Way: 8/7/ 8/5/4/3/2	TEC GR No.GR/ MDS-01/01 Feb. 2010	FTTH Applications
HDPE, PP- Black	20 to 1800	IS:14333 ISO:8773 DIN 8077 8078, 8074	Sewerage, Effluents
MDPE & HDPE- Yellow, Orange & Black	20 to 630	IS:14885 ISO:4437	Gas Distribution & Conveyance
PE Sureloc™	50 to 315	Company Standard	Potable Pipe Lines
Jain DWC Duct	83, 75, 90, 125, 200, 250	IS:14930(Part-2) EN: 13476 TEC GR No.GR/ DWC-34/01 Sept. 2007	Electrical Conduits, Subsoil, Drainage, Underground cable, Conduits for PLB, HDPE Duct
Fabricated HDPE Fittings	up to 1800	IS: 8360	Potable Water, Sewerage, Effluents

* Different types of slots and perforation available.

Salient Features

Polyethylene (PE) pipes are made out of grades HDPE / MDPE (PE-63, 80 & 100) Virgin Polyethylene.

Polypropylene pipes are made out of grade. PP-R 80.

Good for Water, Chemical, Effluent, Sewerage, Slurry, Gas, Salts, Solvent conveyance, plumbing & Cable Ducting Electrical Conduits etc. Can withstand temperature & high pressure. Unaffected by Algae, Heat and Ultra-Violet Rays. High abrasion resistant. Flexible yet strong. Available in straight lengths & coils.

We undertake Turn-key Projects - Concept to Commissioning.



Agri Processed Products

- **Dehydration :**

Onions

Vegetables

Fruits

- **Fruit Processing:**

Purees

Concentrates

Frozen Fruits (IQF)



Onion & Vegetable Dehydration



Capacity, Process & Features

Processing Facilities

- Three Processing facilities worldwide. Two processing facilities in India, one located at Jalgaon, Maharashtra and the other at Vadodara, Gujarat.
- One in United State of America.

Raw Material

- White Onion, Garlic, Leek, Bell Pepper, Paprika, Tomato & Spinach

Production Process - Dehydration

- Special varieties of Onion & Vegetables are contract grown in vicinity of the dehydration plants.
- Cultivation and harvesting is supervised by our agronomists, who also provide agronomical guidance to the contract growers.
- Raw Onions and vegetables are harvested, graded and then transported to the plants.
- All of the raw material on receipt is checked for quality and only good quality raw material is fed to the plant or store in the climate control storages for future processing.
- The onions/vegetables are cleaned, inspected, washed and then transported to the main processing plant by a special water flume system.

- The onions/vegetables are washed once again, peeled, washed, inspected and then cut to required sizes.
- The cut onions/vegetables are then dried gently to retain all the natural taste, flavour and nutrients.
- The dried product is then milled to make different fractions like flakes, granules, powder etc, depending on customer application and requirement.
- The finished product is then passed through metal detector, colour and laser sorter, before being packed and store in cool storages.

Production Process - Frying

- Raw onions are graded, cleaned, washed and then transported to the processing plant.
- Onions are subjected to topping and tailing, washed once again and then cut to the required sizes.
- A special batter is applied to the cut onion and then the product is deep fried in a continuous fryer.
- The fried product is cooled, excess oil removed and then seasoned with spices or salt.
- The product is passed through a metal detector and then packed & stored in cold storage.



Onion & Vegetable Dehydration



Products, Applications & Features

Saillant Features

- World-class, most modern onion & vegetable dehydration facility.
- Stringent plant sanitation, hygiene, food safety and HACCP standards are followed.
- Fully integrated with backward linkages.
- Full control of raw material cultivation, harvesting and processing.
- Marketed under 'FarmFresh' Brand.
- Products are exported to reputed MNCs & other overseas customers.

Products

● 'FarmFresh' Dehydrated Product range includes White Onion, Red Onion, Garlic, Leek and Bell Pepper, in sliced, diced, chopped, granulated, powdered and toasted forms. Available in different forms as fractions kibbled, slice, dice, chopped, minced, ground, granulated and in powder form. These are supplied in variety of packs (Bag -in-Box of varied sizes).

Applications

"Farmfresh" Dehydrated and Fried Onions/ Vegetables are used as spice, in soups dry mixes, pizza toppings, ready to prepare meals, sauses etc and many other food preparations/ applications.



Fruit Processing



Capacity & Process

Processing Facilities

- Three Processing Facilities in India, one located at Jalgaon, Maharashtra and the other two at Chittoor, Andhra Pradesh.

Raw Material : Mango, Banana, Papaya, Guava, Pomegranate, Aonla (Indian Gooseberry), Tomato, etc.

Production Process - Aseptic, Frozen and Canned

- Fruits are harvested at the peak of their maturity and transported to our modern processing plants.
- All raw materials are checked on receipt for quality and only good quality raw material is washed, crated and stored in the climate controlled ripening chambers for optimum ripening under controlled conditions.
- The ripened fruits are washed with sanitizer, inspected and washed again with potable water before feeding to the plant.
- The fruits are either hand or machine peeled, de-seeded and then pulped.
- The pulp is pre-heated to inactivate enzymes, passed through a decanter-centrifuge and a deaerator.
- In case of concentrates, the deaerated puree is passed through an evaporator.
- The puree or concentrate is sterilized/chilled/pasteurized, before being packed either aseptically or frozen or canned in different pack sizes depending on the customer requirement.

- The entire process ensures that the taste, colour & aroma of the fruit is retained & are close to as is natural product.
- Finished product is stored at low temperature.

Production Process-IQF

- Raw fruits are harvested, graded & then transported to the plants.
- All raw materials are checked on receipt for quality and only good quality raw material is washed, crated and stored in the climate controlled ripening chambers for optimum ripening.
- The ripened fruits are washed with sanitizer, inspected and washed again with potable water before feeding to the plant.
- The fruits are then hand peeled, cut into slices & de-seeded.
- The de-seeded fruit slices are either directly frozen or taken to a dicer to make the required size of dices before being frozen.
- The frozen slices/dices are then inspected and passed through a metal detector before being packed and stored frozen.
- In case of vegetables, the vegetables are blanched before being diced and frozen.
- Packed frozen fruits are stored in cold storage at -18°C .



Fruit Processing



Salient Features

- Agronomical support and training is provided to the farmers to ensure good agricultural practices.
- Full traceability up to the farm level/farm cluster level.
- Stringent plant sanitation, hygiene and good manufacturing practices followed.
- All products tested and certified for pesticide and heavy metal residues.
- Products marketed under the brand name 'FarmFresh'
- GMP, HACCP, SPC & other Quality Management Systems are implemented.
- Free of any chemical preservatives / adulterants.
- Meet WHO, EU and Japanese Standards for pesticides and heavy metals.

Products and Packing

Alphonso, Kesar, Totapuri Mango Puree, Totapuri Mango Concentrate, Mango Clarified Juica Concentrate, Banana Puree, Concentrate and Clarified Juice Concentrate, Guava Puree, Concentrate and Clarified Juice Concentrate, Papaya Puree, Concentrate and Clarified Juice Concantrate, Tomato Puree, Concentrate and Paste, Amla Puree, Pomegranate Juice and Clarified Juice Concentrate. IQF Alphonso, Totapuri and Kesar Slices and Dices, Pomegranate Arils, Papaya dices, Guava dices, Sapota dices and Vegetables.



ASEPTIC - 20 Kg. Bag in Box, 50/100 Kg. Bag in Plastic Drums, 200/220 Kg. Bag in Steel Drums and 1000 Kgs. in Plastic or Corrugated Bins.

CANS - 450 gms, 850 gms, 3.1 Kg. and 5.25 Kg.

FROZEN - 1 Kg. in pouch/plastic jars, 5 Kg & 10 Kg. in plastic drums, 20 Kg in Bag in Box and 200 Kg. in Bag in Drums.

IQF - 1 Kg, 5 Kg, 10 Kg. in Bag in Box.

Applications

- 'FarmFresh' fruit pulps and concentrates are used in a variety of applications e.g. fruit juices, nectars and other fruit based beverages. Ice-creams, yogurts, confectionaries and other applications.
- 'FarmFresh' Frozen Fruit & Vegetable Products are also used in a variety of applications e.g. Fruit salads, Yogurts, Ice-creams & other applications.

Natural Resource Conservation Products

- PVC Sheets
- Solar Water Heaters
- Solar Photovoltaic Appliances

EX-CEL

Building a strong future together.


NuCedar Mills


Jain Green Energy

 **Jain
Solar**

 **Jain
Jyot**

Your Joint Venture with the Sun.

 **Jain
Solar pump**

PVC Foam Sheets



Process

PVC Resin mixed with Chemical Additives and colour masterbatch to form a ready-mix for extrusion of sheets.

ISO 9001, ISO 14001 & BS OHSAS 18001 Certified Company by TUV NORD, Germany.



PVC Foam Sheets



Applications & Features

Product	Thickness	Width	Applications
Free-Foam Sheets	1 to 10 mm*	Upto 2050 mm	Advertising Signs, Interior Design, Panels, Cabin, Bathroom Fittings etc.
Low Density Free-Foam Sheets	2 to 10mm*	Upto 2050 mm	
Free-Foam CoEx-Sheets	3 to 10 mm	Upto 1560 mm	Advertising Signs, Interior Design
PVC Lumber-Low Density Free Foam Sheets	12 to 32 mm	Upto 1220 mm	Interior Design, Panels, Cabin, Replacement of Timber in Building & Construction. Also available with wood-grain texture finish on one side
Integral Foam	8 to 30 mm	Upto 1560 mm	Advertising Signs, Sheets Displays False Ceilings, Window Shutters, Doors, Construction, Walls & Partitions, Kitchen doors & accessories etc.
Rigid PVC Sheets	1.5 mm to 12.5 mm	Upto 1500 mm	Industrial Applications like Chemical tank lining, Ducting, Thermo-forming etc.
Trimboards	12 to 32 mm	3- 1/2", 4- 1/2", 5- 1/2", 7- 1/4", 9- 1/4", 11- 1/4"	Replacement of existing wood trim & new building application

* 1mm thickness sheet available in 1220mm & 1560mm widths.

* 30mm integral Foam sheet available in 1250 mm width

Salient Features

Free-Foam Sheets are available in white and 16 different colours, light weight, low density, excellent cell structure & matt finish.

Integral Foam Sheets are available in white with smooth hard surface.

Rigid PVC Sheets available in grey and white with Smooth glossy surface.

PVC coex sheets are available with rigid Glossy finish as well as smooth matt finish on one side or two sides.

PVC sheets are environmentally friendly and do not contain any hazardous material.



Solar Water Heaters



Capacity, Process & Features

● Automatic mechanical machine shop with hydraulic power press, press brake, cutting, bending and rolling machines, circle cutting, argon arc welding and PUF insulation machine.

Process

Solar collector is manufactured using selectively coated / fins brazed to the copper headers, housed in an aluminum frame supported by pre coated sheet on the back side with insulation and fitted with toughened glass on the front side.

Salient Features

Energy saving, No recurring cost, Almost maintenance free, accident free, most durable, efficient and proven technology.

Facility is Certified for ISO 9001:2008 by TUV NORD CERT GmbH, Germany.

Model	Standard Sizes in Liters Per Day	Application
FPC Sunrise	100, 125, 200, 250, 300, 375 & 500	Bungalows, apartments, Guest Houses, Hotels, Hospitals, Health Clubs, Dairies, Edible Oil Industries, Chemical Industries, Tanneries, Sugar Factories, Breweries and wherever & whenever we need hot water.
FPC Sunglow	100, 125, 200, 250, 300, 375 & 500	
ETC Sunrise	100, 200, 250, 300, 375 & 500	
ETC Sunglow	100, 200, 250, 300, 375 & 500	

Note: ● Solar Water Heating Systems of more capacities are available.



Solar Photovoltaic Appliances & Surface/ Submersible Pumps



Products

Category	Rating	Application
Lantern CFL Based	7W, 9W	Emergency light, camping light, table lamps, patrolling light, hawker/vendor stalls.
Lantern LED Based	3W	
Home Lighting System (DC) CFL Based	9W, 11W	Homes, Shops, Clinics, Banks, Corridors
Home Lighting System (DC) LED Based	3W, 6W	
Street Lighting System CFL Based	9W, 11W, 18W	Roads, Parks, Boundary Walls, Hotels, Hospitals
Street Lighting System LED Based	8W, 12W, 18W, 24W, 36W	
Solar Blinkers	Super Bright LED	Obstruction warning indication on roads, sharp curves, crossings, railway crossing gates etc.
Power Packs (AC)	125 W onwards	Homes, Shops, Clinics, Banks, Corridors

Note : 'Jain Jyot' Lantern, Home Lighting, Street Lighting, Solar Power Pack can be designed and supplied for specific customer requirements.



Products

Category	Rating	Application
Solar Pumping Systems	Surface	0.33 to 3 HP
	Submersible	0.1 to 21 HP
Solar hand pump	Up to 1 HP	Rural water supply schemes, Domestic & Commercial water supply systems, family drip irrigation

Note : • Solar Pumping Systems can be designed and supplied for specific customer requirements. • Manual & Single axis trackers available on demand.



Awards & Accolades

- **Proud Moments**
- **Awards & Accolades**

Proud Moments



Nation Honours our Founder Chairman with 'Padma Shri' for services in the science & technology sector — agriculture science and water technology

Shri Bhavarlal Jain, Founder Chairman of Jain Irrigation Systems Ltd. receiving the 'Padma Shri' from the Hon. President of India Smt. Pratibha Devisingh Patil on 5th May 2008 at the Ashoka Hall, Rashtrapati Bhavan, New Delhi.

Proud Moments



The future of the world lies in the hands that work with Nature.

As on today in the world

- Number one in Drip Irrigation with Pipe Production
- Number one in Mango Processing.
- Number one in Tissue Culture Banana Plants Production
- Number three in Onion & Vegetable Dehydration.

The way the world sees us

- "Crawford Reid Memorial Award" (Irrigation Association, USA)
- "Water Conserver of India" (UNESCO & West-Net)
- "Challengers to the World's Leading Companies" (Standard & Poor's)
- "Asia's 200 Best Under a Billion Companies" (Forbes Asia)
- "100 Most Promising Clean Technology Companies on the Planet" (Global Cleantech & The Guardian)
- "Client Leadership Award" (International Finance Corporation, World Bank Group)
- "Best Water Company Award" (UNESCO, Ministry of Water Resources & Water Digest)
- "Boldness in Business Award" –Environment (Financial Times & Arcelor Mittal, London)

Awards & Accolades



Lifetime Achievement Award - 2011



IFC Client Leadership Award - 2010



Financial Times
Arcelor Mittal Boldness in Business Award - 2011

Awards and Recognitions are but milestones which remind us of our responsibility and obligation to do better in future than what we did in the past. We must not bask in the glory of what we have achieved and become complacent. If anything, these should inspire us to raise our level of commitment for achieving or surpassing our stated objectives. Our search for innovation, exceptional merit and outstanding performance in the field of Agriculture has been unending and must remain so.

In 1997, The Irrigation Association, USA conferred the "Crawford Reid Memorial Award" on our founder chairman Mr. B. H. Jain, in recognition of "His significant achievements in promoting proper irrigation techniques and in fostering major advancements in the industry outside the United States. "Mr. Jain is the first Indian and second Asian to have received this award. Rarely does the IA bestow such a distinction on an individual heading a commercial enterprise. Also he has been honoured jointly by UNESCO and WATER DIGEST by conferring on him "WATER CONSERVER OF INDIA" award for his work of society upliftment.

When the founder chairman is the recipient of such illustrious awards, can his company be far behind. Jain Irrigation was acknowledged as a **challenger to the world's leading blue chip companies** by standard & poor's in 2007 and later in 2008 Jain Irrigation figured in Forbes Asia's list of **200 Best Under a Billion Companies** in Asia. And very recently in Sept 2009, Global Clean Tech ranked Jain Irrigation amongst "**the 100 most promising green technology companies on the planet**". The clean tech group that has a worldwide network of investors, entrepreneurs and enterprises representing trillions of dollars in assets has acknowledged Jain Irrigation as a clean tech company that shows the most commercial promise and has the most potential and highest likelihood of achieving high growth and high market impact.



Outstanding Performance in Export Recognition (GoM) - 2009



Social & Corporate Governance - 2010
Bombay Stock Exchange Limited



Apeda Export Award (GoI) - 2011



Israel-Asia Chamber of Commerce (Jerusalem) - 2010



Dun & Bradstreet - Rolta Corporate Award - 2011



Best Water Company (UNESCO) - 2011

Executive Summary of Total Awards to B.H.Jain & Jain Irrigation

	BHJ	JISL	Total
By International Institutes	01	06	07
By Central Government	01	107	108
By State Government	05	33	38
By Nationally Acclaimed Institutions	24	18	42
Felicitation by National Dignitaries	2	-	2
Ranking by Globally & Nationally Acclaimed Institutions	-	09	09
Total	33	173	206



ICC Sustainability Vision Award - 2011



Vanshree Puraskar (GoM) - 2007



Plex-Concil Awards (GoI) - 1992 till 2011



Brand Equity



Jain Irrigation Systems Ltd.
Small Ideas. Big Revolutions.®

Micro Irrigation Systems, Equipments & Agri Inputs



Plastic Products



Green Energy Products



Food Products



Social Profile





We revere these elements of our universe. They reflect our ethos.

Yellow, Green, Blue and Brown are colours of Nature and have been embodied in our logo. They encapsulate the conviction of the Founder and the lasting commitment of the Corporation to Agriculture.

Jain Irrigation is striving to add value to the entire agri-chain. At the same time, they produce and process a complete range of agri-products for the exacting world markets and growing domestic clientele.

The Corporation is poised to grow and attain water, food & energy security.



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