



## International Tour and Exposure Visit

A collage of agricultural images including a greenhouse, a tractor, a person in a field, and various crops, with the text "Exploring New Horizons of Agriculture" overlaid.

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Agriculture Study Tour to Italy Coinciding with Sol & Agrifood, Verona, Italy, April

US Agriculture Technology Visit Coinciding with Farm Progress Show, Iowa State, USA  
August - September

Farm Machinery Tour to Italy Coinciding with International Agriculture and Horticulture  
Machinery Expo, Bologna, Italy November

Horticulture tour to Holland Coinciding with International Horticulture and Floriculture  
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Horticultural Training tour to CZECH Republic Coinciding with Green World Brno

Horticulture Tour to China Coinciding with Hortiflorexpo IPM, Beijing May



**Note:-** The above tours can be considered with various Events, Expos and Seminar within the proposed duration.

For customised tour / programmes and further details, please contact to [ed@card.org.in](mailto:ed@card.org.in)



## Upcoming International Study Tours

**Dairy Tour to Netherlands Coinciding with World Dairy Summit, Rotterdam, Netherlands, October**

**Cotton Tour to Egypt**

**Wheat Tour to Australia**

**Corn Tour to IOWA (US)**

**Stevia Tour to China**

**Fruit Tour to US (CALIFORNIA)**

**Olive Oil Tour to Spain**

**Coffee and Soybean tour to Brazil**

**Rice & Sugarcane Study Tour to Mauritius & Madagascar**

**Medicinal Tour to China**

**Livestock farming Tour to Kenya & Ethiopia**

**Precision farming Tour to Israel**

**Horticulture Study Tour to Israel: Tel Aviv**

**Biosaline Agriculture Study tour to UAE**

**Agriculture study Tour to Thailand & Malaysia**

**Animal Husbandry Study Tour to Denmark & Holland**



## Major Agri | Horti Expo Worldwide



**Note:-** The above tours can be considered with various Events, Expos and Seminar within the proposed duration.

For customised tour / programmes and further details, please contact to [ed@card.org.in](mailto:ed@card.org.in)

# About CARD

**E**stablished and registered in the year 2000 under the Societies Registration Act 1860, Centre for Agriculture and Rural Development is a premier Non-Government Organization, playing a vibrant role in national efforts of developing India through agriculture led transformation. CARD is committed to reaching all parts of the rural society especially farming community and participates actively towards improving the quality of life of rural masses by addressing technical, economic policy issues related to the development of agriculture and rural society. CARD is relentlessly working to create and sustain an environment conducive to the growth of agriculture sector and rural communities in India, fostering partnerships in industry and government through advisory and consultative processes.

CARD is engaged in a range of activities in agriculture, horticulture and rural development with an all India presence. The organization focuses on training, capacity building, information dissemination and technology exposure by organizing business seminars, technical conferences, farmers' workshops, agro trade fairs, conducting surveys & studies and adopting villages for their sustainable development. CARD monitors trends in agriculture and agribusinesses and advises Central and State Governments, NGOs and various bodies on appropriate policies and actions for the development of agriculture and rural economy.

CARD has strong links with the farming, business communities as well as policy makers built up through many years of consistent effort to voice agriculture issues and facilitating partnership between Government and the industry by initiating public private partnership in agriculture. The pioneering roles played by CARD in popularizing the concept of PPP, Government initiative on mass media support to agriculture, lowering of interest rates by organizing Parliamentarians conferences and working towards greater investments in agriculture sector have brought in self-perpetuating development. There has also been a long association of CARD with farmers throughout the country and with agencies and organizations involved with rural development.



Over 3 Lakh  
Farmers Trained



Covered 74 Districts for  
Farmer Exposure and  
Trainings



More than 128 agribusiness  
ventures churned out from  
Bhagidari Centres



Organized 11 Agri Expo  
meets, benefitting over 7  
Lakh farmers



Stands in technical  
collaborations with  
dozens of national  
institutes



# Values



Facilitate the integrated development of India's agriculture and rural upliftment



**Mission**

Encourage farmers to adopt an integrated approach to agriculture and work towards achieving better returns and economic success in the face of liberalization and globalization



## Thrust Areas



1

Capacity Building Programs



2

NER Development Initiatives



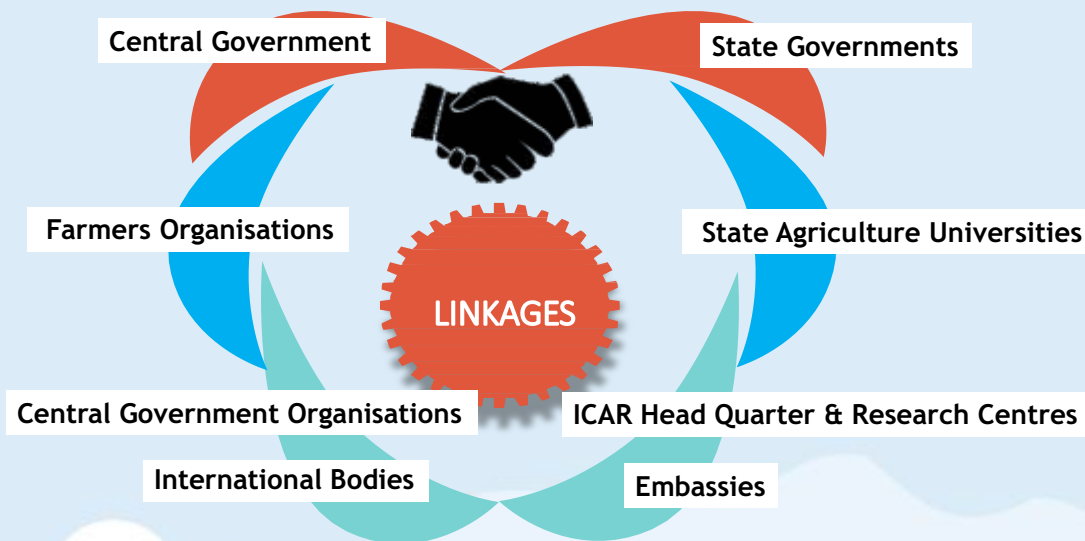
3

Farmer Market Linkages



4

Livelihood Programs



# Impact of International Tours and Expo Visits

**Beneficiaries:**  
200+ Govt. officials  
from State Govts.

**Linkages with  
International Bodies  
for Trade**

**Entrepreneurship  
Development**

Helping Progressive farmers  
percolate the learning  
deeper in the rural fabric.



# Recent International Study Tours

**Agriculture Delegation to Israel**

Coinciding with  
**AgriTech Israel 2017**  
 Tel Aviv  
 International AgriTech Exhibition

**12 Sept - 14 Sept 2017**



One free night at  
**Istanbul, Turkey**



In collaboration with Embassy of Israel



**Horticulture Study Tour 2017**  
**The Netherlands, Germany & Switzerland**  
 06 nights / 5 days Tour  
 9<sup>th</sup> November to 14<sup>th</sup> November, 2017

International Floriculture & Horticulture Trade Fair, The Netherlands  
 (08 - 10 November 2017)

Concurring with  
 AGRITECHNICA, Germany  
 (12 - 18 November 2017)

Explore Global horti technologies, innovations and practices

**Centre for Agriculture and Rural Development**  
 306 Bala Road, 3 Tisbury Road, New Delhi - 110001,  
 Ph: 011-27731329, 43095466, Fax: 011-27731330 | www.card.org.in  
 Rupal Tiwari, Executive Director | ed@card.org.in | Mob: +91-7290088226



**Horticulture Study Tour**  
**Australia & New Zealand**

Tentative Schedule: Jan - Feb, 2017



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**Hi-tech Agriculture/ Horticulture and Livestock Study Tour to Israel**

Coinciding with  
**AgriTech Israel 2015**  
 Tel Aviv, From 28th - 30th April, 2015  
 The 19th International AgriTech Exhibition & Conference

**27th April to 2nd May, 2015**




Explore new agro technologies, innovations and practices

**Horticulture Delegation to Australia & New Zealand**

Coinciding with  
  
**Field Day**  
 Horticulture Trade Show June 11 to 13, 2009




**07 nights 08 days tour to Australia from 01 June 2009 to 16 June 2009**  
 Business Meeting and Visit Program services to be offered through  
 Australia Trade Commissioner - AUSTRALIA


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**Horticulture Delegation to China**

Coinciding with  
  
**Hortifloreexpo China 2009**  
 1-4 April, 2009



**30 March, 2009 to 06 April, 2009**



Explore new horti technologies, innovations and practices



# Agriculture study tour to Australia (Brisbane & Sydney)



## Agriculture in Australia an overview

CARD shall organize the visit of state government officials and farmers to various places in Australia & New Zealand arrange meetings with officials, experts and agribusiness executives to facilitate technology exchange programmes, projects business and trade cooperation between Australian institutions, companies with the state. The arrangements will also be explored for providing training and co-operation in transfer of technologies in post harvesting management and value addition for fruits, vegetables and other products. The visit also includes various sites of horticulture advancements, including farms, institutions and food processing units. The tour include visit to various sites representing the latest in advanced horticulture including farms, institutions and agro processing units, both in Australia Newzealand. These countries are known for the most advanced in horticulture technologies and practices. There are of course other tourist attractions and places of historical importance in Australia & New Zealand.



## Technical Tour Visits

- To visit tropical fruit world to learn about environmentally sustainable fruit growing& total catchment management.
- Meeting with the officials of Horticulture Australia limited.
- Meeting with the officials of Australian Chambers of Commerce & Industry.
- Northey street city farm to learn about permaculture& organic gardening and even participating in using the principles of permaculture.
- Visit to Sirromet wines Pty ltd and get the real experience of wine making and other local foods.
- Visit to Royal Botanical gardens centre for plant conservation & research to learn about the most advanced practices of maintaining plants and advanced horticulture systems
- Visit to the Australian institute of horticulture at Ryde near Sydney.
- Visit to other places of tourism importance in & around Brisbane and Sydney

## EVENTS COINCIDNIG:





# Horticulture tour to Italy (Milan)



## Horticulture in Italy: A Snapshot

Horticulture industry in Italy is one of Europe's leaders both in terms of production and exports. Horticulture in Italy is highly advanced because of the usage of modern technologies in cultivation, irrigation, harvesting, post harvest handling and storage. Italy has the largest area of organic cropland in Europe and is the major exporter of the organic products in the Europe. The organic fruits produced in Italy are citrus mainly lemons and oranges, apples and peaches, while the main vegetables are tomatoes, carrots, lettuce, cauliflower, onions and fennel etc.



## About My Plant & Garden

MY PLANT & GARDEN is regarded as one of the most noticeable events on Gardening, Plants, and Landscaping and Flowers topics. The show since its first edition has offered new incentives, markets, ideas and a new and varied visitor profile. This Trade Show, Fair and Exhibition is attended by approximately 7500 participants. The show is being organized in Fiera Milano Rho, the largest exhibition centre in Europe.

## Technical Tour Visits

- Visit to high-tech horticulture farms
- Visit to Fruit and Vegetable Asciione Italian Market Milan
- Visit to food processing unit located in the provinces of Milano or Lodi within max 50 km from the city center
- Visit to Department of Agricultural and Food Sciences - University of Milan
- Visit to Institute of Agricultural Biology and Biotechnology, Milan
- Visit to Milan Botanical garden

## Prospective outcomes

- Understanding on advanced farm practices and techniques in horticulture
- Learning about the mechanized horticultural production and gardening
- Experience the working of latest machinery through live demonstration in fields
- Building networking with the professionals of the industry
- Creation of bright possibilities of joint ventures, business deals, technology collaboration, investments, promotion, market linkages, export and import of farm machinery and tools

## EVENTS COINCIDING:



# Agriculture Study Tour to Italy (Verona)



## Agriculture in Italy: A Snapshot

Agriculture in Italy is highly advanced because of the usage of sophisticated technologies in cultivation, irrigation, harvesting, post harvest handling and storage. The southern region mainly cultivates wheat, tobacco, olives, stone fruit, sugar beets and tomatoes, while northern Italy has a strong tradition of pig and cattle breeding. Italy is of the European leader in agriculture-horticulture, forestry and fishing in terms of value addition and numbers of workers. Italy is also one of the top ten largest producers of organic production in the world



## About Sol & Agrifood:

Sol & Agrifood, the four days annual event showcase the product from Agriculture, Horticulture, Forestry, Meat, Poultry & Seafood, Food & Beverage, Natural & Organic, Tea & Coffee industries. The event encourages direct contact between producers and trade operators, buyers and catering professionals. The exhibition is increasingly becoming a landmark for food products from Italy as well as other countries, with significant growth in foreign exhibitors.

## Technical Tour Visits

- Visit to Sol & Agrifood to gain knowledge of latest innovation in Agriculture and related industries including food processing
- Meetings with exhibitors and industry professionals and experts
- Visit to nearby agricultural farms and agro processing centers
- Visit to Verona University specially Department of Biotechnology to get acquainted with how biotechnology is helping farmers in improving their crops
- Visit to VeronaMercato the Biggest agricultural produce market in Verona
- Visit to Verona Botanical garden

## Prospective outcome:

- Learning about the latest and advanced farm practices and techniques
- Acquaintance with the latest developments in the farm machinery sector worldwide.
- Networking with the Agri industry professionals and experts.
- Explore possibilities of joint ventures, business deals, technology collaboration, investments, promotion, market linkages, export and import of various articles of agricultural and food processing Industry.
- Learning of mechanized agricultural practices to adopt for the betterment of Indian agriculture.
- An opportunity to see farm management, advanced horticulture, dairy and agro processing units in Italy.

**EVENTS COINCIDING:**



**SOL & AGRIFOOD**  
TASTE OF BUSINESS



# US Agriculture Technology Visit (Iowa State)



## USA Agriculture: A Snapshot

An expanding world population, coupled with increasing concerns about resource scarcity, land availability, biodiversity conservation and global warming is fostering interest in sustainable agriculture technologies. Progress in agricultural technology and crop yields has made the United States among the most productive agricultural producers in the world. The United States produces about half of the world's corn and 10 percent of its wheat and accounts for 20 percent of the global meat requirement which makes US a net exporter of food. Agricultural GDP in the United States averaged 170.87 USD Billion from 2005 until 2016, Agriculture in US is the most advanced with the use of most modern technologies in production and marketing, from irrigation to seeds, mechanization to inputs applications and harvesting to post harvest handling and storage.



## About Farm Progress Show

The Farm Progress Show provides a world class international forum for the agricultural officials, professional and the farmers. The exhibition features the latest innovations and technologies, agribusiness products and services, new seed varieties and animal and livestock health products. Daily field demonstrations are the major highlights of the show featuring side by side harvesting and tillage techniques, global positioning systems, farm management, post harvest and other precision equipments and products as well as live demos and live crops performance comparisons on hundreds of acres. Livestock handling demonstrations include equine and bovine health products and handling equipments. Besides, there are focused seminars on wide range of agriculture from technologies to marketing to farm and post harvest management.

## Technical Tour Visits

- Visit to Ag Engineering /Agronomy Research Farms.
- Meeting with officials of IOWA State and corn production board.
- Visit to Farm Progress Show, Boone, Iowa
- Visit to Iowa State University and horticulture Station
- Visit to dairy farms and Animal Science teaching farms
- Visit to large and mechanized corn, sunflower and soybean fields
- Visit to private sector R&D units and seed demonstration farms



**FARM  
PROGRESS  
SHOW.**

## Prospective outcome:

- Learning of the latest innovations in the agriculture sector.
- Develop networking to enhance the agricultural trade
- Learning of the innovative farming methods to apply and improve Indian farming
- Learning of the most modern concept in Agriculture and Precision Technologies
- Learning of the latest and greatest American ingenuity which agriculture has to offer
- Acquaintance with advanced dairy farms and horticultural procedures and practices

# Farm Machinery Tour to Italy (Bologna)



## Italian Farm Machinery: A Snapshot:

Italian farm machinery production lines range from power mowers for the home owner to tractors and harvesters used by the world's leading agribusiness enterprises. Italy's diverse climate and geography give its manufacturers a decisive edge in the highly competitive market allowing them to develop the most creative solutions for the world's growers.



## About EIMA International Expo:

EIMA International is the International Exposition of Machinery for Agriculture and gardening, a biennial event created in 1969 by FederUnacoma, the Italian Agricultural Machinery Manufacturers Federation, and organized by the federation's service division, FederUnacoma Surl, in collaboration with BolognaFiere. Each edition hosts some 1,900 companies from forty countries exhibiting more than 50,000 models of machinery and equipment for all types of agricultural operations or green work for every model of enterprise. The five days exhibition features latest farm equipments and trends in agri-machineries worldwide. It is the only exclusive show combined with business and technical seminars with extensive participation by overseas players.

## Technical Tour Visits

- Visit to one of the largest dairy and livestock farms, including dairy-research farm such as Granarolo Felsinea.
- Visit to horticulture farms and agro processing centers in the vicinity of Bologna
- Visit to agricultural institutions and meetings at FAO in Rome
- Visit to the International Agriculture and Gardening Machinery Exhibition at Bologna Trade fair Centre.

## Prospective outcome:

- Knowledge of latest and advanced farm practices and techniques
- Experience the working of the latest machinery in demonstration
- Acquainted with the latest trends in the farm machinery sector worldwide
- Networking with the Agri - industry professionals and experts
- Explore possibilities of joint ventures, business deals, technology collaboration, investments, promotion, market linkages, export and import of farm machinery and tools.

## EVENTS COINCIDING:





# Horticulture tour to Holland (Vijfhuizen)



## Netherlands Agriculture: A Snapshot

Dutch horticulture sector is a global trendsetter and the undisputed international market leader in flowers, plants, bulbs and reproductive material and the number three exporter in nutritional horticulture products. It forms the heart of an international network of floriculture, bulbs and decorative trees as well fruits and vegetables. Dutch greenhouses cover an area of more than 60 square km constituting a city of glasses and with a relatively low impact on the environment. Aalsmeer in Netherlands is the world's largest flower auction centre.



## About International Horticulture and Floriculture Trade Fair

horticultural and floricultural event of its kind. IHTF serves all segments of the floriculture industry and complete value chain from breeders to propagators, growers, consumers and traders to suppliers of flowers and plants. The trade fair provides a platform for the horticulture industry to showcase the new products. This internationally acclaimed fair is organized in the month of November at Vijfhuizen, Holland.

## Technical Study Tour Visits

- Visit to IHTF and IFTF
- Visit to Dutch Flower Group
- Visit to Westland Flowers Export (WBE)
- Visit to Aalsmeer, flower auction centre
- Visit to Flora Holland cooperative organization
- Visit to Keukenhof park
- Visit to nearby mechanized agricultural farms

## Prospective outcome:

- Understand latest pre-production and post-production technologies for various crops.
- Explore the largest floriculture/horticulture event and get acquainted with the new trends in the field.
- Meetings with the manufacturers and buyers representing all segments of the industry.
- Provide an insight to develop new channels for business and exports.
- Explore new machineries and equipments for crop processing and packaging.
- Opportunity for collaborations, investment deals and projects.

## EVENTS COINCIDING:



# Agriculture Study Tour to China (Kunming)



## China Agriculture: A Snapshot

China, one of the dynamically evolving economies, has more than 2000 model agricultural farms, which employ modern practices from obtaining one of the world's highest yields and best qualities. China has unique experiences to offer in rice, corn, fruits, vegetables, poultry and fisheries besides farm machinery and agro processing technologies. China's main grain crops are rice, wheat, corn, soybeans and tuber crops. Paddy is the major grain crop in China, grown mainly in the Yangtze River valley and southern China, and on the Yunnan-Guizhou Plateau. The Chinese national agricultural extension project is worth an expertise to learn on how collaborative models can be a success. The explosive growth of the Chinese economy has created fabulous opportunities for businesses. "Going China" is no longer an option for most organizations, but a necessity.



## China Agriculture Trade Fair

CATF is the leading and professional trade fair that is directly organized by the Ministry of Agriculture. The 3 day event is organized in November every year. China Agriculture Trade Fair provides the most direct and efficient site for communicating and trading between suppliers and purchasers, and also meeting with the officials, decision makers from the national and local governments, departments and associations.

## Technical Study Tour Visits:

- Visit to China Agriculture Trade fair
- Visit to Xiaotangshan Modern Agriculture Science and Technology Demonstration Park
- Shunyi Agriculture Hi-tech Pilot Zone
- Visit to Analog Agriculture Centre
- Visit to Beijing Huiyuan Beverage & Food Groups Company Ltd.
- Visit to Huaxi High-tech Farm
- Visit to latest farm technology - Water Saving Agriculture, which is highly efficient, low cost and eco-friendly
- Visit to Beijing Botanical Garden

## Prospective outcome:

- Meeting with top 500 Chinese corporations and importers of agricultural industry
- Meeting with over 5000 producers, exporters, manufacturers, farmers and importers from all over China
- Offering plenty of business opportunities to establish the long-term business relations with the officials from the various ministries
- Understand the advanced agricultural and horticultural crop production, marketing their processing and marketing strategies in order to replicate the same in India.

**EVENTS COINCIDING:**





# Animal Husbandry and Dairy Tour to Germany (Hannover)



## German Agriculture: A Snapshot

Germany is an agriculturally advanced country and 2nd largest farm economy in Europe with more than 80% of the country's land is used for agricultural or forestry purpose. It is also a major exporter in the agriculture and food industries with corresponding exports valued at more than 50 billion euros. The most important commodities include dairy, meat and meat products. Germany tops the list of pork producers in the EU. Cattle and beef production in Germany is a professional business. The country has very high standards covering the whole supply chain and value chain, from breeding and insemination on the farm premises via husbandry, slaughtering and processing through to performance and quality control. On a global scale, Germany comes third after China and the USA.



## About EuroTier

EuroTier is the top event worldwide for animal husbandry and dairy professionals organised at the world's largest Exhibition Ground at Hannover, Germany, in November. This international platform offers information, discussion forums and technical seminars on current issues in professional animal husbandry. EuroTier is Europe's meeting place for officials and professional animal husbandry experts. Over 1,800 exhibitors present their innovations in cattle, pig and poultry husbandry and aquaculture.

## Technical Tour Visits

- Visit to EuroTier
- Visit to German's one of the best dairies Ruwisch & Zuck
- Visit to AGCO, which is a global leader focused on the design, Manufacture and distribution of agricultural and dairy machinery
- Meeting with exhibitors, exposure and learning in the show
- Participation in technical seminar and in India focused Meet
- Visit to local dairies and animal breeding farms as will be suggested by the local expert guide
- Visit to meat and milk processing companies
- Visit to University of Veterinary Medicine Hannover

## Prospective Outcome

- Learning about the latest innovations in terms of livestock products, equipments and services.
- Experience different presentations and competitions on beef cattle, dairy cattle, sheep, horses, and animal shows.
- Learning of the latest technologies and innovations in animal rearing, production, processing, packaging, transportation, value chain and marketing
- Develop a better networking with the industry professionals and officials in order to explore the scope for the growth of Indian animal product industry.
- Explore the possibilities for joint ventures, business deals, technological collaborations, investments, promotions, market linkages, export and import of animal products and animals

**EVENTS COINCIDING:**



# Farm Machinery Tour to Germany (Hannover)



## German Farm Machinery: A Snapshot

Germany is the world leader in agricultural mechanization and the largest exporting country of agriculture machinery in the world, and also the largest agriculture machinery manufacturer, at the same time the second largest agriculture machinery consumer country in Western Europe. The German agricultural machinery and equipment industry ranks among the country's top ten M&E sectors. The agricultural machinery industry generated a turnover of EUR 7.68 billion in Germany in 2014. German agricultural machinery industry is highly competitive because it has high ability of design, sophisticated technology, high production efficiency and machining precision. Whereas the excellent product quality, reputed brand name and product services increases its worth. Germany holds over 20% of the Europe's farm machinery market and exports its farm tools and equipments to over 100 countries across the globe.



## About Agritechnica:

The Agritechnica held after every two years in Hannover (Germany) and showcases products like Tractors, Mobile charging, transport, technology for tillage and seedbed preparation, seed technology, ordering equipment, fertilizer technology, plant protection technology, irrigation technology, extraction technology, harvesting technology, and equipment for harvest, Erntegutförderung etc. in the Agriculture & Forestry industry.

## Potential Study Tour Visits

- Visit to AGCO, which is a global leader focused on the design, manufacture and distribution of agricultural machinery
- The world's largest trade fair for agricultural machinery and equipments. Innovations in agricultural machinery and equipments and the latest solutions and concepts for the future of plant production are presented every two years at AGRITECHNICA in Hanover, Germany. AGRITECHNICA is the world's leading exhibition for agricultural machinery and equipments.
- Visit to Krone, an advanced agriculture production area, where a large number of farmers are using the most advanced and integrated farm machineries
- Visit at Lemken Company. It is closely associated with the farmers and develops technologies that are highly popular amongst farmers. Lemken has made its presence in Indian farm machinery market too with the opening of its factory at Nagpur.
- Visit at CLAAS Company, one of the leading farm machinery manufacturers in the world, which makes a big range of large machineries.

## Prospective Outcome

- Working knowledge of the latest machinery through live demonstrations
- Get acquainted with the latest trends in the farm machinery sector worldwide
- Networking with the Agri – entrepreneurs, scientists and experts
- Explore possibilities of joint ventures, business deals, technology collaboration, investments, promotion, market linkages, export and import of farm machinery and tools.
- An insight into mechanized Agri/horticultural crop production and gardening





# Horticultural Training tour to CZECH Republic (Green World Brno )



## Horticulture in Czech Republic: A Snapshot

Fruit and vegetable production in the Czech Republic is also essential to the economy (fruit more so than vegetable). Production of vegetables has included almost 18 cultivars of main vegetables that take over 400 ha. to grow. Furthermore, some areas of the country are very adapted to growing vegetables in those regions. However, even with favorable areas that are able to grow vegetables there are still many details that need to be fixed in order to make vegetables a higher priority commodity in the country. Fruit, on the other hand, has become a very important commodity for the Czech Republic. Because most of the fruit grown here is in need of a temperate climate, fruit has become almost abundant enough to become a major export of the country. This could not only help the country transform from a leading importer to exporter but provide numerous jobs for people.



## About Green World

The Green World Horticulture Fair at the Brunn Fairgrounds has become a recognized and popular event throughout Europe. The Green World offers an opportunity for the exhibiting companies to find new customers and suppliers. Visitors and exhibitors can make useful contacts at this fair. Whether professional or just interested people, the Green World informs the visitors comprehensively and in detail about the latest news, trends, products and services in the horticultural industry.

## Technical Tour Visits

- Visit to Green World Exhibition in Brno
- Faculty of horticulture of Mendel University, Brno
- Visit to Central Institute for Supervising and Testing in Agriculture, Brno
- Visit to Prague farmer's market
- Visit to Research Institute of Crop Production Prague - Ruzyně
- Visit to Prague Botanical Garden

## Potential Benefits of the Visit

- Participation in the world class horticultural fair.
- Learning of the latest technologies and innovations in production, processing, packaging, transportation, value chain and marketing of horticultural produce.
- Networking with the industry professionals and officials to explore the scope for the growth of Indian horticulture product industry.
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import.

EVENTS COINCIDING:



# Horticulture Tour to China (Beijing)



## Horticulture in China: A Snapshot

Having great diversity in its climates and the Chinese soils are characterized with abundance in its capacity to produce a variety of high quality tropical, subtropical and temperate fruit, vegetables, and flowers. China's total fruit plantation area is over 11million hectares with large fruit producing regions where kiwifruit, apple, citrus, pear, and grapes are being grown. Niche production is also developing for high value products such as blueberries and strawberries. With the increasing purchase power in China and a greater demand for more varieties and quality of horticultural products, China offers many opportunities, particularly in the field of propagation materials and horticulture-supporting industries



## About: China Fruit & Vegetables Import/Export Trade fair (China FVF)

China FVF, is a congregation of the tilling hands and brilliant minds from the industry, who work together towards a more sustainable and successful agriculture. It is a platform where policy makers from China, embassy representatives from major produce trade nations, professional associations and industry executive get together, share information, exhibit new products, meet clients, social network, discuss solutions and make deals.

## Technical Study Tour Visits:

- Visit to China FVF Trade Fair, China National Convention Center, Beijing
- Meeting with the Indian Embassy – Discussion on India China Direct Agri Trade
- Meeting with the China Chamber of Commerce for Import & Export of foodstuffs, Native
- Visit to the Hui yuan Fruit Juice Factory
- Visit to the Beijing Organic and Beyond Corporation Ltd
- Visit the Shanghai Urban Vegetable Garden
- Visit Shanghai Bright Dairy & Food Co.
- Visit to Silk factory
- Visit to Agritech Park
- Agri. Nursery & local farm Visits
- Sunqiao Modern Agriculture Development Zone



## Prospective Outcome

- Meet, discuss and explore the India-Sino agricultural export - import areas with top 500 Chinese corporations and importers of agricultural industry
- Meeting with over 5000 producers, exporters, manufacturers, farmers and importers from all over China
- Offering meeting opportunities in Indian embassy and china chambers of commerce to discuss India China Direct Agri trade.
- Understand the latest technologies for agricultural and horticultural crop productions, their processing and marketing strategies in order to replicate the same in India



# Food Exhibition Tour To France (Paris)



## Food & Beverage (F&B) Sector in France: A Snapshot

France is the second largest F&B industry in Europe and is the fifth largest exporter of F&B products worldwide. Important contributory factors include increased purchasing power, a strong local agriculture sector, and state-of-the-art infrastructure. France also boasts several large multi-billion retailers such as Carrefour, Auchan and Leclerc. Due to their size, these mass-market retailers are very demanding regarding their suppliers and very influential in the French F&B market which is mature, structured and highly regulated. The largest industry segments by production value are meat and sausage products, dairy products, baked goods, and confectioneries.



## About SIAL

The Global Food Marketplace (French: Salon International de l'alimentation, or SIAL) is a trade fair held every two years, which specializes in the food processing industry. SIAL Paris is a global showcase for the food industry that brings the key producers and buyers together with a focus on the world's major challenges and reveals the trends and innovations that shape the food industry of tomorrow.

## Technical Study Tour Visits:

- Visits with Parisian food merchants: It will be a half day tour to stir your marketing and culinary senses, visits & tastings in specialized settings.
- One-day retail study tour: It will include visits to most innovative food stores in Paris among the best French retailers: Convenience Stores, Supermarkets, Hypermarkets, Organic, and Snacking, Soft Discount etc. to get an overview of the newest and most innovative concepts in terms of customer service, dramatization, offering, layout and entertainment.
- Visit Rungis Market: It is the largest fresh produce market in the world which caters fish, meats, fruit & vegetables, dairy products and flowers.
- Visit to France F&B biggies like DANONE and LACTALIS (dairy products) and Pernod Ricard (wines and spirits)

## Prospective Outcome

- A unique opportunity for discussion and cooperation between politicians, decision-makers and personalities from the food industries.
- It is also a global business hub with a good quality buyer-visitor base: 1 visitor out of 3 is prepared to sign deals at the exhibition, a unique, real-life "market test" opportunity where a wide range of buyers available for the new products exhibited.
- SIAL is useful even indispensable for all the SMEs that really want to grow, change and open up to the world.
- Essential meeting place for market professionals and innovation trends.
- Actions, their processing and marketing strategies in order to replicate the same in India

EVENTS COINCIDING:

**SIAL**  
INSPIRE FOOD BUSINESS

# Sugarcane Tour to Brazil (Brazil)



## Sugarcane Industry in Brazil: A Snapshot

Brazil is the largest sugar producer country in the world and accounted for 25% of the world sugar production and 50% of world exports. It is the second largest producer of ethanol in the world and accounted for 20% of the world ethanol production. In 2012, the sugarcane sector contributed US\$36 billion to Brazil's gross domestic product (GDP) – equivalent to almost 1.6% of the entire Brazilian economy and higher than the GDP of a European country like Latvia (US\$29.7 billion). Brazilian Sugarcane Industry has 413 mills, 70,000 growers. The modernization process of the sugar alcohol industry is based in genetic improvement and cultural practices. The technological developments of sugarcane in Brazil is based on genetic improvement or transgenic programs, which have made possible to obtain new varieties that are more productive and resistant to pests and diseases, and that have higher adaptability to several weather conditions.



## About Agrishow:

Agrishow is one of the world's largest and most comprehensive agricultural technology trade shows. This is a trade fair where you can find a huge variety of products and services that caters to all farmers regardless of the size of the property and culture. Agrishow is host of the success of Brazilian agribusiness.

## Study Tour Visits

- Visit to UNICA (Brazilian Sugarcane Industry Association). It's the largest organization in Brazil representing sugar, ethanol and bioelectricity producers.
- Visit at COSAN, largest Sugarcane producers and processing company in Brazil.
- Visit to Copersucar-the world's largest sugar and Ethanol Company.
- Visit to cane technology center. It's a not for profit organization, which is applying technology and innovation to the sugarcane
- Visit to sugarcane farms
- Sugarcane Research centre CTC, Piracicaba, sao paulo

## Prospective Outcome

- Learn latest innovations in Sugarcane cultivation.
- Know about various new varieties adaptable to different climatic adversities.
- Know about the value chain and different by-products of the industry and their usefulness.
- Explore networking with the industry professionals and official
- Find the scope for the growth of Indian Sugarcane industry
- Explore possibilities of joint ventures, technology collaboration, investment promotion, market linkages, export and import.

EVENTS COINCIDING:





# Horticulture Tour to China (Beijing)



## Horticulture in China: A Snapshot

China has wide spectrum of climates and soils favorable for the production of a variety of high quality tropical, subtropical and temperate fruit, vegetables, and flowers suitable for domestic consumption and export. Major fruits produced in China are apple, citrus, pear, melon; grape, banana, pineapple, litchi and longan, while the main vegetables produced are Chinese and European cabbages, tomato, Chinese radish, bean, capsicum, mushroom, asparagus, potato and onion. China also has a variety of unique flowers and plants suitable as cut flower, pot plant and other ornamental, landscaping and environmental protection purposes. China with the increasing purchasing power offers many opportunities, particularly in the field of propagation materials and horticulture-supporting industries.



## About Hortifloorexpo IPM – Beijing

HortifloorexpoIPM in China is a leading platform for horticulture & floriculture in Asia. This is the largest and most authoritative international trade show that involves floriculture, horticulture and gardening industry in China. Being the largest horticulture trade fair in Asia hortifloorexpoIPM offers to introduce latest biotechnology, advanced equipments, new varieties of seeds & propagation materials, new garden technology and products into the huge horticultural market and enhances the chances to explore more business avenues to increase your share in Chinese market.

## Prospective Outcome:

- Learning of latest technologies being used in horticultural crop production, processing etc.
- Acquaintance of knowledge of Chinese gardening procedures and practices
- Explore the possibilities for collaboration and tie ups
- Exposure to the innovative floriculture practices
- Learning of modern methods of flower arrangement techniques

## Technical Study Tour Visits:

- Visits to Hortifloorexpo IPM-2016, Beijing, China
- Visit to the lingering garden in order to learn modern horticultural technologies
- Visit to the Beijing Tuanli silk mill to get an exposure of silk production techniques
- Interactions with exhibitors, industry professionals to explore possibilities of collaborations and partnerships in china and the worldwide as well
- Visit to Beijing Botanical garden
- Visit to Beijing Huiyuan Bevarges & food Group Co Ltd
- Specially arranged meetings with experts in Chinese chambers of commerce and industry.

**EVENTS COINCIDING:**



# Dairy Tour to Netherlands



## Dairy Farming in Netherlands: An Overview

The dairy sector is one of the most important engines of the Dutch economy with one third of the total surface of the country occupied by dairy farming. The Netherlands is a dairy country as dairy sector makes an important contribution to the Dutch economy. The dairy sector is characterized by a high degree of specialization, horizontal concentration, vertical integration and growing globally. The Netherlands counts 20 dairy companies with 52 plants. Having 11 million tons of milk, after Germany, France, the UK and Poland the Netherlands is the fifth largest milk producer country in European Union. The Dutch dairy sector trades with more than 150 countries around the world and in 2014 the sector exported EUR 7 billion. The Dutch dairy sector not only exports dairy products, but also provides expertise and technology to dairy farmers.



## Technical exposure Visits:

- Visit to Friesland Campina which is one of the World's largest five dairy company in the world
- Visit to the Henri wiling Cheese Farm
- Visit to de Jong farm
- Visit to 3-way crosses on Henk Schoonvelde's dairy farm in Holland
- Visit to Dairy - Holland, Stokman Farm
- Visit to Veeopro Holland which provides complete information about the Netherlands Dairy farms, technology and provides Support to dairy related projects.

## Prospective outcomes

- Get exposed to the cutting edge inventions, innovations and creative solutions in modern dairy setting
- Get an exposure to the latest developments in the dairy industry
- Get trained to the use of modern tools and dairy equipments
- Learn the problem and difficulties in dairy farming and finding suitable solutions to them
- Apply the acquired knowledge and innovative ideas for the betterment of Indian dairy sector



# COTTON TOUR TO EGYPT



## Egyptian cotton Industry: An Overview

Egypt is known as the exporter of best quality cotton in the world. Cotton plays an important role in the country's economy by meeting the domestic and export demand, contributing significantly to the country's agriculture. Egypt is the largest producer of cotton in Africa and worldwide of long and extra-long staple cotton, accounting for approximately 50% of the world production. It has built a brand reputation for its quality of cotton. Furthermore, Egypt has a vertically integrated textile and apparel industry, 90% of spinning and weaving companies are publicly owned. The Egyptian government is targeting the encouragement of private investments in the up-stream industry as well as the down-stream industries. The US and Europe are Egypt's textile and clothing exports' primary markets with a market share of 35% and 46%, respectively. The Egyptian textile industry is enhancing its competitive position by new investments and adopting the latest technology in all phases of the production process.



## Technical Study Tour Visits

- Visit to Central Research Institute, Giza to understand ways and means of improving yields, enhancing resistance to pest and disease, design and implement soil research and plant physiology.
- Visit to Cotton Arbitration and Testing General Organization (CATGO), Alexandria, Egypt to understand the regulatory and quality enforcement aspects.
- Visit to Arab Cotton Ginning Company, Cairo Egypt. The company is engaged in cotton ginning as well as trading of its product domestically as well as internationally.
- Visit to cotton Ginning Factories at Cairo, Egypt
- Visit to Egyptian Agriculture University and to cotton fields in major cotton growing areas of the country

## Prospective outcome

- Study the latest practices in cotton cultivation
- Learn the systems of marketing of raw and value added cotton
- Learn the ginning and other post production techniques.
- Networking with the cotton industry professionals and Egyptian officials to find the scope for the growth of Indian cotton farmers and industry
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion and market linkages.

# WHEAT TOUR TO AUSTRALIA



## Wheat Industry in Australia: An Overview

Wheat which is grown as a major winter crop in Australia, accounts for most of Australia's grain production. Australia produces 3% of the world's wheat but accounts for 18% of the world's 100 million ton annual global wheat trade. The high production is achieved by employing latest farm management practices and improved crop cultivation techniques. Complementing these mechanical advancements, research into new wheat varieties that are suitable to the Australian environment and more resistant to diseases also play a significant role in the production. Australia exports about 80% of its total wheat crop each year.



## Technical Tour Visits

- Visit to the Wheat Quality Australia (An independent not for profit company), Gordon which works on quality standards with the support and involvement of all sectors in the value chain.
- Visit to Australian Export Grain Innovation Centre, Sydney the body which supports the trade and of Australian Grain around the world through cutting edge grain quality and processing technology and market innovations
- Visit to Wellard Agri. Fremantle WA It has a wheat farm size of 33000 hectares located in the western Australia's vast Agricultural landscape
- Visit to Grain Growers also Known as Prime Wheat Association. It's a passionate group of grain producers in Narrabri in North West, which produces high protein wheat.
- Visit to Manildra Group of Companies, Sydney it is the largest user of wheat for industrial purpose processing about 1 million tons of wheat per Annum.
- Visit to the Agriculture Universities in different States in Australia and large mechanized wheat farms
- To meet Federal Government officials in Canberra and State Agriculture officials to understand the extension system and various support programs and schemes being executed for wheat and other crops and the support to the farmers.
- Faculty of Agriculture and Environment, University of Sydney

## Prospective Outcome

- Understanding on the latest solutions in wheat processing technology and market innovations and strategies.
- Explore Australian farming systems and wheat cultivation techniques.
- Networking with the industry professionals and federal government officials in order to explore the scope for the growth of Indian Wheat Sector.
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import in Wheat sector.



# CORN TOUR TO IOWA (USA)



## Corn Industry in Unites States: An Overview

Corn plays a major role in the economy of the United States with 96,000,000 acres (39,000,000 ha) of land reserved for corn production. The United States ranked first in the world in corn production, and 20% of its annual yield is exported. Corn is the most widely produced feed grain in the United States, accounting for more than 90 percent of total value and production of feed grains. Around 80 million acres of land are planted to corn, with the majority of the crop grown in the Heartland region. Most of the crop is used as the main energy ingredient in livestock feed. Corn is also processed into a multitude of food and industrial products including starch, sweeteners, corn oil, beverage and industrial alcohol, and fuel ethanol. The United States is a major player in the world corn trade market, with approximately 20 percent of the corn crop exported to other countries.



## Study tour Visits

- Visit to Kentucky Corn Growers Association Eastwood KY which is dedicated to growing opportunities of corn farming Industry.
- Visit to IOWA corn production board which brings corn growers together and manages the issues of corn industry
- Visit to Monsanto which is world's leading company and playing a vital role by providing the latest technology and seed inputs to the farming community
- Visit to American Corn Growers Association -a commodity and advocacy association founded in 1987 which represents the interests of corn (maize) producers in the United States, where corn is used for human and animal food and to produce ethanol.
- Visit to Archer Daniel Midland Company turn crops into renewable products at more than 270 processing plants to meet the demands of a growing world.

## Prospective outcome

- Learning new technologies that will help farmers achieve greater yields while reducing environmental impact and protecting and improving the image of agriculture and farmers through consumer education
- Identify different hybrids and disease resistant varieties which could be domesticated in India
- Networking with the industry professionals and officials and to explore the scope for the growth of Indian Corn Sector.
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion and market linkages.



## **Stevia cultivation in China: an Overview**

China, the largest stevia sweetener production base and supplier in the world, has witnessed significant development within the industry in the past years. It caters to almost the entire world's consumption as of today. China is an emerging consumption country for stevia sweetener. Most of the processing of stevia leaves happens in China. Stevia sweetener can be used in all fields needing sucrose, such as food beverage, medicine, Agriculture, animal feedstuff, as well as personal care and skin care products. Stevia sweeteners are receiving more attention from the world's food and beverage industry when it was used by Pepsi Co Inc. and The Coca Cola Company in 2014, as CCM once predicted. The period from 2015 to 2017 will witness huge development of the stevia sweetener industry in China and even in the world.

India has eventually become the hotspot for diabetes and obesity. There is hence a big demand for a product that can satiate the sweet tooth without sacrificing health aspect. Stevia is gaining wide popularity as a healthy alternative to sugar. Globally the sweetener market is expected to reach at USD 95.9 billion by 2020, thus India which consumes about 2.6 cr tons of sugar annually would benefit from healthier alternatives of sugar. The states like Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Karnataka and Andhra Pradesh have already expressed their interest in stevia cultivation.



## **Technical Study tour visits**

- Visit to GLG Naturals China's largest Stevia processing Company, Beijing
- Visit to Shandong Huaxian Stevia Company which produces 1,000 MTs of refined stevia per year
- Visit to PureCircle Co. Ltd. which is the industry leader in Stevia production
- Visit to Qufu Haigen Stevia Products Co. Ltd. Shandong
- Visit to the stevia growing farms and the company owned farms
- Visit to privately owned and Company owned Stevia Farms
- Meeting and Discussion with researchers and industry experts

## **Prospective Outcome**

- Learning of latest technologies and local practices involved in the cultivation of the stevia crop
- Learning of the methodical and hi tech agriculture of China
- Training of farmers in scientific farming of the crop in order to improve their earnings and quality of life
- Learn about the methods and practices of post-harvest management and processing of the crop
- Find out the business opportunities and linkages for the growth of Indian stevia market
- Involve more farmers to cultivate the stevia crop for high economic benefits.



# FRUIT TOUR TO US (CALIFORNIA)



## Fruit Industry in US: An Overview

In the year 2013 the total US fruit production linger around 30675 thousand tones. California accounts for about half of U.S. bearing fruit acreage, Florida almost one-fourth, and Washington around one-tenth. Michigan, New York, Oregon, Pennsylvania, and Texas are also important fruit-producing States and together account for over one-tenth of the Nation's fruit acreage. Nearly two-thirds of California's agricultural crop value comes from fruit and tree nut production (\$20.3 billion average for 2012-14). California is the largest producer of grapes, strawberries, peaches, nectarines, kiwifruit, prunes, and plums; is a major producer of a variety of other non- citrus fruits like apples, pears, and sweet cherries; and ranks second in citrus production. California's fruit-friendly climate gives it an advantage over other fruit-producing States. California also produces almost all of the country's almonds, apricots, dates, figs, kiwi fruit, nectarines, olives, pistachios, prunes, and walnuts. It leads in the production of avocados, grapes, lemons, melons, peaches, plums, and strawberries



## Study Tour Visits

- Visit to Washington fruit and produce co. Yakima, WA
- Visit to united fresh produce Association
- Visit to Vannas tropical Fruits and vegetables
- Visit to California tropical Fruit trees.
- Visit at Dole food Company
- Specially arranged dinner meeting with Indo – American Chamber of Commerce.

## Prospective Outcome

- Learn about modern fruit processing technologies, Value addition and their marketing.
- Exposure to a variety of fruits cultivation suited to different agro climatic situations.
- Develop networking with the industry professionals and officials to find the space for the growth of Indian fruit industry
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import of fruits and fruit varieties

# Olive Oil tour to Spain



## Olive in Spain: an overview

Spain is undoubtedly the world leader when it comes to olive production. The huge climatic diversity of Spain produces a wide variety of olives which naturally produces an extensive variety of olives and olive oils which are the two most important products of the country's agricultural industry. In recent years the industry has grown to see Spain as the world's biggest producer and exporter of olives and olive oil. Totaling about 2.4 million hectares of land is under the cultivation of this valuable crop in Spain. The two primary olive producing areas are Andalusia and Extremadura. Spain has over 52 percent of the olive acreage and 67 % of the olive producing trees in the world. There are about 1,777 mills, 80 refineries and 500 packing plants.



## Study tour Visits

- Visit to olive growing foundation.
- Visit to the olive oil Agency.
- Visit to international Olive Council Madrid.
- Visit to Andalucía that occupies southern part of the peninsula and produce about 75% of the olive oil produced in Spain
- Visit to Castilla located in the center of the peninsula and produce about 14 % of the total olive produced in Spain
- Visit to Extremadura Located in south eastern part of the peninsula and produce 6 % of the total Olive produced in the country
- Visit to Technical University of Madrid

## Prospective Outcome

- Learning of local practices in olive cultivation
- Exposure to latest technologies in post harvest and value addition of Olive
- Learn about the farming and harvesting and bottling equipments
- Networking with the industry professionals and officials
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import of olive and olive oil





## Medicinal plants in China: an Overview

Medical and pharmaceutical traditions of China have evolved over the centuries as essential parts of its civilization and are widely recognized today as representing its rich cultural and scientific heritage. As this medical knowledge and expertise were built on a land endowed with an abundance of varied flora, it is not surprising that medicinal plants play a central role in Chinese medicine and the country's achievement in the utilization of its native plants in health care delivery has been admired and acknowledged throughout the world. China possesses a diverse and rich flora to form the basis of traditional Chinese medicine. At least 5,000 of plant species are used as medicinal plants in China. In China, plant-based medicines are the backbone of the health-care for a billion people. Medicinal plants are used by 40 per cent of Chinese urban patients and over 90 per cent of rural patients for the primary health-care needs. In the traditional medicines as well as in the officially decreed medicines, huge quantities of plant materials are used. According to a Chinese proverb, "Every plant is a medicinal herb."



## Study Tour Visits

- Visit to Institute of medicinal plant development, Beijing
- Visit to Chinese medicinal plant authentication centre at Royal Botanical Garden
- Visit to Jiangsu Institute of Botany (Nanjing Botanical Garden)
- Visit to South china botanical gardens
- Visit to Chinese medicinal herb farm
- Visit to Beijing medicinal Botanical Garden

## Prospective Outcome

- Learn about technologies related to the cultivation of the medicinal crops
- Acquire knowledge of various medicinally important plants and their uses
- Interaction with growers to understand the cultivation of medicinal crops on commercial scale
- Acquire knowledge the development of a herbal garden
- Exposure to new innovations and organic cultivation of crops
- Visit to high tech demonstration units

# LIVESTOCK FARMING TOUR TO KENYA AND ETHIOPIA



## Livestock Industry in Kenya and Ethiopia

Livestock is the main household asset and a key productive resource for pastoralist communities living in the border areas of Kenya and Ethiopia. The livestock sector in Kenya contributes 12% of total GDP and 42% of agricultural GDP. Ethiopia is home to the largest population of livestock in Africa. The animals are kept mainly for food or income generation. The major types of commercial livestock farming includes large scale dairy farming, where cattle are solely used for production of milk for sale, accounts for 20% of national milk production, while small scale dairy farming accounts for 80%. Almost the entire rural population was involved in some way with animal husbandry, whose role included the provision of draft power, food, cash, transportation, fuel, and, especially in pastoral areas, social prestige. In the highlands, oxen provided draft power in crop production. In pastoral areas, livestock formed the basis of the economy.



## Study Tour Visits

- Visit to Kenya Dairy Board
- Visit to Kenya Meat Commission
- Visit to local Dairy and Animal husbandry institutes of Kenya and Ethiopia
- Visit to major food and meat processing Companies like Alpha fine foods Ltd, Key meat suppliers etc.
- Visit to Ethiopian meat and dairy Industry development Institute (EMDIDI)
- Visit to Almi dairy and milk processing company

## Prospective outcome

- Exposure to different kind of breeds of livestock
- Build a better networking with the industry professionals and officials
- Interaction with Dairy Board official, Private dairy operators to discuss and understand the policies and management of large dairy farms
- Explore possibilities of joint ventures, business deals, technology collaboration, investment, promotion, market linkages, export and import of animal products and animals



# PRECISION FARMING TOUR TO ISRAEL



## Precision Farming in Israel: an overview

Precision farming aims to optimize field-level management with regard to the Crop management, Environmental protection and Economics. Israeli start-up companies are coming up with breakthrough technologies that are gaining the attention of investors around the globe. Israeli companies are developing new technologies in diverse fields, from breeding new crop varieties to sustainable crop-protection and post-harvest technologies, livestock health, feed solutions, aquaculture, soil-less agriculture, and on to irrigation technologies, precision agriculture and even energy production from second generation agriculture. The agricultural sector's high level of development is due to the close cooperation and interaction between scientists, extension advisers, farmers, and agriculture-related industries. The result is modern agriculture in a country, half of which is defined as desert.



## Study Tour Visits

- Visit to Netafim headquarters Tel Aviv, Israel
- Visit to Metzarpas, a kibbutz-based industry of micro-irrigation products and various types of pipelines
- Visit to Hishtil seedling Grafting technology
- Visit to Israel Bio organic Agriculture Association
- Visit to Haifa Chemicals Ltd- it's a global leading supplier of potassium nitrate and Specialty fertilizers

## Prospective Outcome

- Learning of precision farming techniques
- Know the latest developments in drip and micro irrigation
- Exposure to live demonstration of different farm equipment and machinery used by the farmers
- Networking with the industry professionals in order to upgrade the Indian agriculture sector.

# Horticulture Study Tour to Israel: Tel Aviv



## Israel Horticulture: an overview

Israel, the world leader in applying high-tech system to agriculture is one of the important exporters of the horticultural produce in the European market. Right from the computerized irrigation system which also distribute fertilizers to genetically developed varieties of seeds and livestock Israeli researchers and farmers have successfully produced world record yield in many sectors. New subtropical and tropical species were introduced and a few were established successfully like avocado, persimmon and mango. The expansion of vegetable crops to whole year supply was developed rapidly by utilizing warm regions in winter and by growing winter crops in polyethylene greenhouses and tunnels. The ability to produce vegetables in the warm valleys of Israel in the winter led to the establishment of an export effort of winter vegetables to Europe describing Israel as the "greenhouse of Europe". A success story was the establishment of bananas for local consumption in specific areas under intensive irrigation and fertilization. Wide introduction of date palm plants established a strong industry that opened the market to export of dry or semi-dry fruit.



## Study Tour Visits

- Visit to The National Institute for Biotechnology in the Negev, Ben – Gurion University of the Negev
- Visit to Hazera Genetics Ltd
- Visit to Netafim Irrigation for irrigation implement and their demonstration, Telaviv,
- Visit to Hishtil seed grafting Technology, Moshav Nehalim
- Visit to Naan Dan Agro Private Limited.
- Visit to Agriculture Research organization and CINADCO Headquarters Bet Dagan

## Prospective Outcome

- Exposure to local practices of cultivation and crop management
- Learning of value additions for field crops, fruits, vegetables and dairy products
- Learning of modern green house technology and machinery, water conservation technologies
- Visit to sites of micro-irrigation and resource management centre
- Exposure to latest high tech horticulture and precision farming systems
- knowledge sharing on innovative ideas to develop Indian horticulture to meet the future demands



# Biosaline Agriculture Study tour to UAE



## Biosaline Agriculture in UAE: An Overview

Biosaline agriculture is a relatively new way of dealing with salinity in agriculture. It develops cropping systems for saline environments, using the capacity of certain plants to grow under saline conditions in combination with the use of saline soil- and water-resources and improved soil and water management. As salinity is influencing our environment more and more, there is urgency in developing cropping systems that can produce in saline conditions. A strong point of biosaline agriculture is that it does not depend on fresh water, but uses unconventional saline water resources. Setting up of the International Research and Training Centre for Below Sea Level Farming at Moncompu in Kerala indicates the importance of biosaline agriculture in India. Apart from IRTC, The Central Salt and Marine Chemical Research Institute (CSMCRI) Bhavnagar (Gujrat) conducts most of the research relating to halophyte cultivation in India.



## Study Tour Visits

- Visit to International Centre for Biosaline Agriculture and interaction with the scientists
- Farm visits and interaction with farmers.(Mirak Farms in DXB), the Mirak Group is the leading grower of high quality fruits, vegetables, flowers, indoor plants and many other high value crops in the UAE
- Visit to Dubai's farmers' market
- Visit to date palm orchard and company (Al foah- the largest date company in the world) in Al Ain
- Visit to Al Ghurair food processing unit, (DXB)
- Visit to Al Ain Dairy farm

## Prospective Outcome

- Exposure to advanced technologies involved in biosaline agriculture.
- Study the value additions for field crops, fruits, vegetables and dairy products
- Learn the water management and micro irrigation system and latest dairy practices
- Exposure to the latest food processing technologies
- Learning of greenhouse development to enable farmers to design their own climatic conditions



## **Agriculture in Thailand & Malaysia: An Overview**

The agriculture in Thailand is highly competitive, diversified and specialized and its exports are very successful internationally. Rice is the country's most important food crop. Thailand is a major exporter in the world rice market. Other agricultural commodities produced in significant amounts include fish and fishery products, tapioca, rubber, grain, sugar and black tiger prawns. Exports of industrially processed foods such as canned tuna, pineapples and frozen shrimp are on the rise.

Agriculture is an important sector in Malaysia contributing 12% of the nation's GDP. Sixteen percent of the population of Malaysia is employed through some sort of agriculture especially from the rural areas. Malaysia is well-endowed with natural resources in areas such as agriculture, forestry and minerals. In terms of agriculture, Malaysia is one of the top exporters of natural rubber and palm oil, which together with sawn logs and sawn timber, cocoa, pepper, pineapple and tobacco dominate the growth of the sector. Palm oil is also a major generator of foreign exchange.



## **Technical Tour Visits**

- Agriculture Department of Kasetsart University, Bangkok
- Ministry of Agriculture and Rural Development
- Agri Export Organization
- Chamber of Commerce and Industry of Thailand
- Fisheries and poultry farms in Bangkok.
- Malaysian Agricultural Research and Development Institute (MARDI)
- University Putra Malaysia, A leading agriculture university in Malaysia.

## **Potential Benefits of the Visit**

- Acquaintance with Thai and Malaysian Agricultural practices.
- Learning of latest technologies and innovations in crop production, processing, packaging, transportation, value chain and marketing
- Develop networking with the industry professionals and officials and to make inroads for Indian agricultural produce export and technology transfer
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkage



# ANIMAL HUSBANDRY STUDY TOUR TO DENMARK & HOLLAND



## Animal Husbandry in Denmark: An Overview

Denmark is generally regarded as the world's outstanding example of intensive animal husbandry. It maintains a uniformly high standard of operations, combining highly skilled labor, scientific experimentation and research, modern installations and machinery, and versatility in farm management and marketing, the excellent co-operative system guarantees the quality of every product of its members. Meat, dairy products, and eggs contribute a most important share of Danish exports. There is a close relationship between cost of feed and export prices.

World-renowned Dutch dairy products outrank all other agricultural produce, and livestock provides two-thirds of total agricultural value. In 2005 there were 3.86 million head of cattle, 11.1 million pigs, 1.2 million sheep, and 86 million chickens. Milk production in 2005 totaled 10.5 million tons. Meat production in 2005 was 2.35 million tons (including pork, 1,299,000; beef and veal, 388,000; and poultry, 646,000). Butter production was 102,000 tons; cheese, 671,000 tons.



## Technical Tour Visits

- Danish institute of Agricultural sciences
- National Veterinary Institute.
- Research Institute for Animal Husbandry, Lelystad.
- VION food group.

## Potential Benefits of the Visit

- Learn about recent innovations in terms of livestock products, equipment and services.
- Learn about the latest technologies and innovations in cattle breeding, rearing, Health maintenance, transportation, packaging of their products, value chain and the marketing
- Build a better networking with the industry professionals and officials to possibilities to upgrade Indian animal husbandry industry.
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import of animal products and animals

# RICE & SUGARCANE STUDY TOUR TO MAURITIUS AND MADAGASCAR



## Agriculture in Mauritius & Madagascar: An Overview

Agriculture plays a vital role in the country's economy and has largely determined its ethnic makeup. Agriculture occupies around 44% of the arable land area. In Mauritius, sugar accounts for 90%. Tea 1%, other crops 9% of the agricultural production. The island nation of Mauritius derives the largest share of its export income from the production of sugarcane.

Madagascar's economy is essentially agriculture based. Agriculture accounts for 30% of GDP and employs about 75% of the work force. Large-scale plantations dominate the production of sisal, sugarcane, tobacco, bananas, and cotton, but, overall, agriculture is dependent mainly on small-scale subsistence farmers cultivating less than one ha (2.47 acres) of land.

Rice is the staple food, covering 1.34 million hectares throughout the country – with the exception of some semi-arid areas in the South and in the South-West - under both rain-fed and irrigated systems



## Technical Tour Visits

- Visit the Mauritius Sugar Industry Research Institute, Mauritius.
- Meeting with the officials of Chamber of Agriculture. Mauritius
- Visit to food and Agricultural Research Council (FARC), Mauritius.
- Visit to Agricultural Research & Extension Unit (AREU), Mauritius.
- Visit regional training center capacity development of Sugarcane, Mauritius.
- Visit to L'Aventure du Sucre, Mauritius
- Visit to national center for applied Research on Rural development (FOFIFA) Antananarivo, Madagascar.
- Visit to the rice field in Madagascar.

## Potential Benefits of the Visit

- Learning of recent technological innovations in the cultivation of Sugarcane and advancement in sugar industry.
- Learning of latest technologies involved in production, processing, packaging, transportation, value chain and marketing of rice and sugarcane.
- Build a better networking with the industry professionals and officials and to explore the scope for the growth of Indian sugarcane industry.
- Explore possibilities of joint ventures, business deals, technology collaboration, investment promotion, market linkages, export and import.



# Coffee and Soybean tour to Brazil



## Coffee and Soybean in Brazil: an overview

**Soybean:** Brazil, the second largest soybean producing country in the world, continues to see strong growth in their agricultural sector. A mid western state, Mato Grosso produces over 30% of Brazil's soybeans, and 9% of the world's soybeans. Brazil's soybean area in 2014-15 is estimated to rise 7 percent, 2 million hectare or 5 million acres, as a result of favorable economics for soybeans versus corn. Exports of soybeans, soybean meal, and soybean oil from Brazil have steadily been increasing since the 1990's, but the export pace accelerated during the 2000's with increased demand from China. During the first five months of 2014, exports of soybeans, soybean meal, and soybean oil totaled US\$ 15.53 billion or 17% of Brazil's total exports.

**Coffee:** Coffee took an essential part of the Brazilian history. The plant, originally from Ethiopia, was first brought to Brazil by some French settlers who established in the state of Pará in the early 18th century. Brazil is the world's largest coffee producer and exporter. The golden grain controls around 30% of international production. There are two types of coffee in Brazil i.e. Arabica and Robusta. Brazilian coffee crop invariably casts a strong impact on world Coffee prices. Coffee exports generated \$5.15 billion revenue for Brazil in 2013.



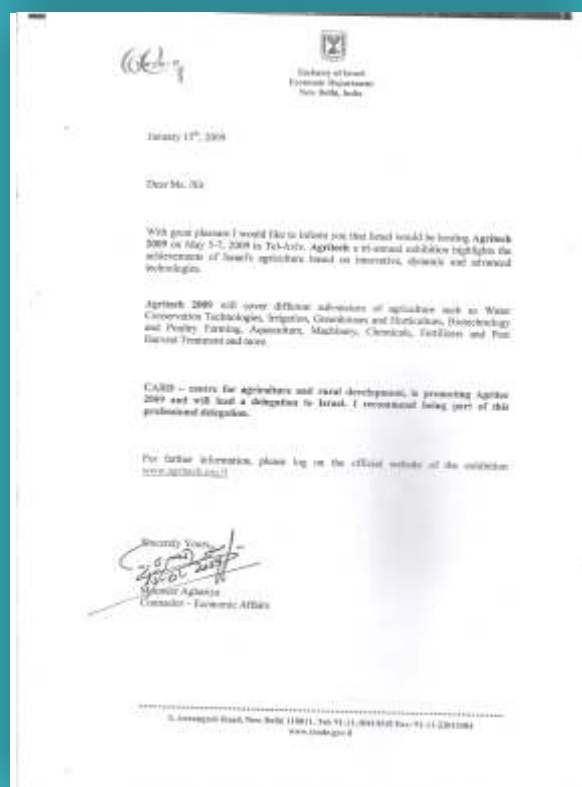
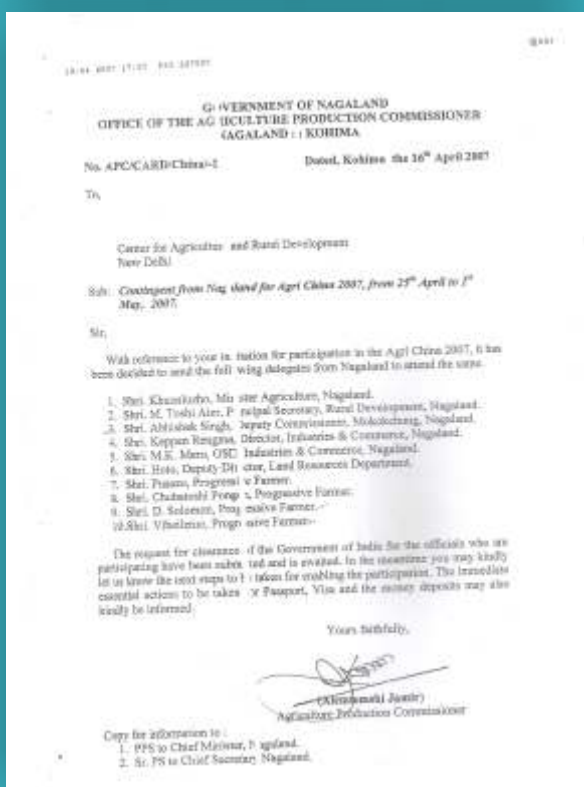
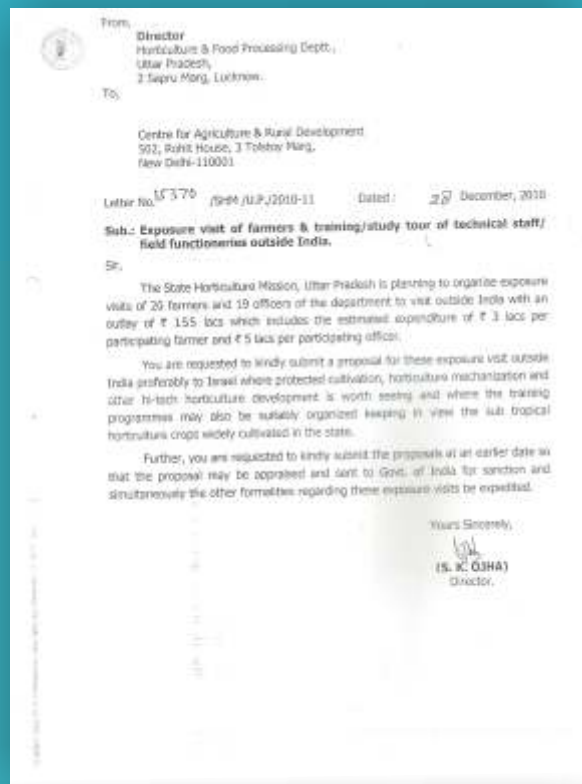
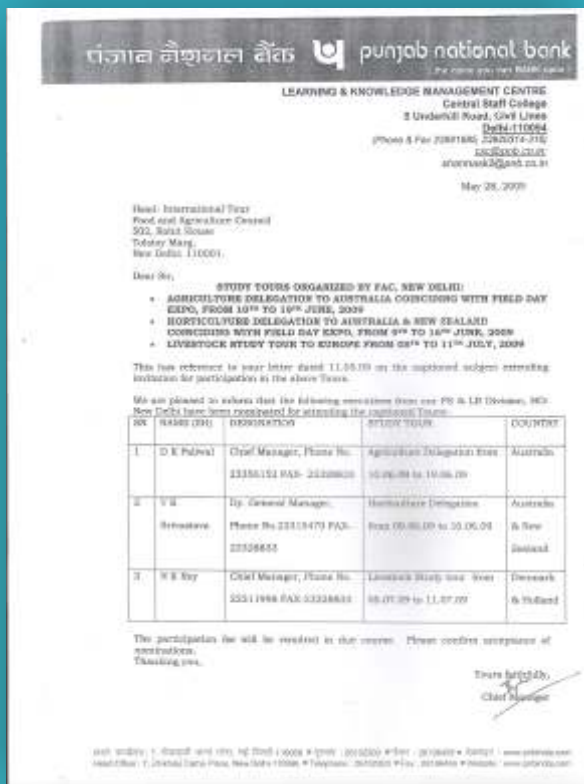
## Technical Tour Visits

- Visit to pedrigulho alta mogiana region Sao Paulo state
- Visit to the Soybean Institute, Embrapa
- Coffee and Soybean farm visits and interaction with farmers.
- Specially arranged meeting in Indian consulate/ Agricultural organizations
- Visit to college of Agriculture, university of Sao Paulo
- Visit to CEAGESP, the large warehouse terminal in São Paulo. They are the largest suppliers of fruits, vegetables, flowers and fish in Latin America

## Prospective Outcome

- Develop a deep understanding about coffee and soybean cultivation
- Learn different ways of value additions for Soybean and coffee,
- Exposure to the Brazilian food processing industry
- To find out more avenues of Collaborations, Tie ups and MoUs from the perspective of Indian coffee industry.

## Support Letters





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**C A R D**

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organization focuses on training,  
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by organizing various training and exposure  
visits, business seminars, technical  
conferences, farmers' workshops, agro  
trade fairs, conducting surveys &  
studies and adopting villages for  
their sustainable development.  
CARD has organized  
hundreds of rural expos,  
farmers' seminars and  
workshops and  
participated in  
field  
projects.