



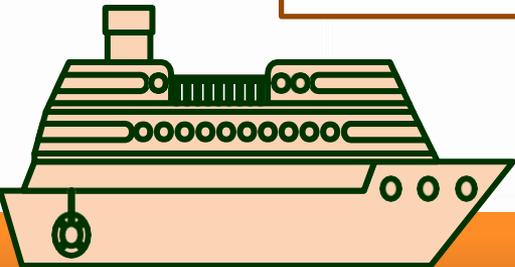
**APEDA'S ROLE : POST -HARVEST  
/ PROCESSING INFRASTRUCTURE**

**AGRI-EXPORT & IMPORT MANAGEMENT TRAINING  
PROGRAM  
(MODULE 1 – SESSION 4)**

**Dr. Sudhanshu  
Secretary, APEDA**

# CONTENTS

1. Integrated Packhouse
2. Post-harvest Treatment facilities
3. Reefer Van
4. Processing units
5. Meat Plants
6. Testing Laboratories
7. CPC
8. Flower Auction Centre



# RATIONALE FOR COLD CHAIN & POST HARVEST INFRASTRUCTURE



Absence of Cold chain leads to...





## RATIONALE FOR COLD CHAIN & POST HARVEST INFRASTRUCTURE

- **Challenges faced**
  - Pest and Diseases
  - Pesticide Residue
- **Bans imposed / Warnings issued –**
  - Curry leaves - UAE (Pesticide residue)
  - Mango, Chilli and Cucumber - UAE (Pesticide residue)
  - Mangoes and four vegetables - EU countries (Pest and diseases)
  - Green chilli - Saudi Arabia & Kuwait (Pesticide Residue)
  - Potatoes - Russia (Pest and Diseases)
- The bans imposed create a negative publicity among the importing countries. The other countries become more cautious in importing fresh produce from India also imposing checks in import.

## INTEGRATED PACKHOUSE

Infrastructure set up by APEDA	Government	Exporters	Total
<a href="#">List of APEDA Recognized Pack houses</a>	60	183	213

- APEDA has initiated several steps like helping exporters with Financial assistance for setting up specialised Pack houses for Horticulture products as per international standards
- These packhouses are also processing fruits (Mangoes, Pomegranate & Vegetables) etc. for export to EU, Japan, Korea, China, USA, Australia.
- In addition to private sector pack houses, the State Government agencies in UP, Maharashtra, Andhra Pradesh, Rajasthan, Kerala etc. have also facilitated large number of exporters by providing common infrastructure projects (Pack Houses).



Common Pack house for Mangoes at Ratnagiri, Maharashtra



# COMMON INFRASTRUCTURE SET UP CREATED BY APEDA

INFRASTRUCTURE SETUP BY APEDA UNDER THE OLD COMMON INFRASTRUCTURE SCHEME			
Total Pack houses	60		
States /UT	Qty	States /UT	Qty
Maharashtra	17	Assam (Amingaon, Karimganj)	2
Himachal Pradesh	7	West Bengal	2
Karnataka	6	Tamil Nadu	1
Andhra Pradesh	5	Kerala	1
Gujarat	4	Mizoram (Aizawl)	1
Rajasthan	4	Sikkim (Rangpo)	1
M.P	3	Odisha	1
Punjab	2	J&K	1
U.P	2		

## STATE OF THE ART PACK-HOUSE INFRASTRUCTURE



- In order to establish quality standards at par with Intl. standards like Codex, EU, USDA, APEDA has established accreditation of Packhouses and Peanut units in association with NPPO, Ministry of Agriculture so as to achieve acceptance of high standard products in EU, Australia, USA, Japan, China & S.Korea.

# Common Integrated Packhouse - MSAMB, Navi Mumbai Vegetable Processing Facility (VPF)



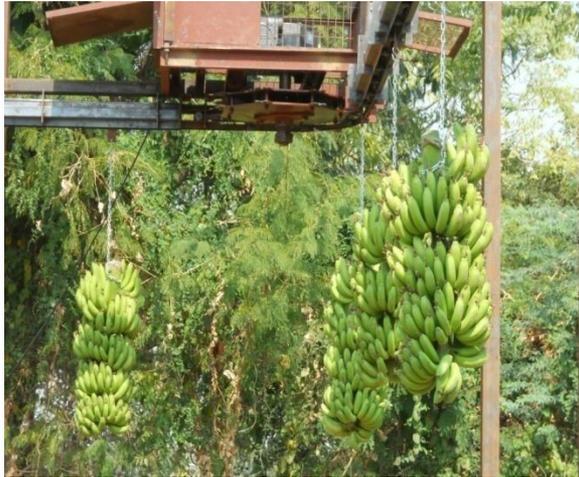
# Snapshot- Integrated Packhouse



# Post Harvest infrastructure – Mango



# Post harvest Processing – Banana



# Post harvest Supply Chain - Grapes



# Post harvest handling – Vegetables for EU



# Post harvest processing line – Baby Corn



# Inspection of Fresh produce at Packhouse



# CA Store Facility



# Walk in Cold Store, Saharanpur (U.P.)





## POST-HARVEST TREATMENT FACILITIES

# Hot Water Dip Treatment (HWT)

Infrastructure set up by APEDA	Government	Exporters	Total
HWT facilities	6	18	24



# Vapour Heat Treatment (VHT)

Infrastructure set up by APEDA	Government	Exporters	Total
Vapor Heat Treatment Plants	4	2	6

Sr. No.	State	Packhouse	Location
1	Andhra Pradesh	A.P. Agro Integrated Pack House & VHT System	Agriculture Market Yard, Thiruchanur Road, Tirupati Chittoor District 517501 Andhra Pradesh, Tirupati,517501
2		A P State Agro Industries Development Corporation	APIIC Industrial Park, Auto Nagar, Dist. Krishna, Nuzvid-521201
3	Maharashtra	MSAMB VHT Facility center	Export Building, APMC Vegetable market, Sector no. 19A, Vashi, Navi Mumbai,400705
4		Nikko Namdhari Food Pvt. Ltd.	Gat No.1398, At post-Sayyed Pimpri, Taluk/District- Nashik -422003
5	Uttar Pradesh	Mango Pack House Lucknow	Krishi Utpadan Mandi Samiti, Sitapur Road Lucknow Uttar Pradesh-226021
6		Mango Pack House Saharanpur	Naveen Mandi Sthal Chilkana Road, Saharanpur-247001
7		Misra Automatics Pvt. Ltd	Khasra Number 2772, Aam Ka Road, Dhoom Manikpur Village, Near Radha Soami Satsang, Gautam Budh Nagar, Dadri- 203208

# Vapour Heat Treatment (VHT)



# Vapour Heat Treatment (VHT)

## Procedure for Exports to Japan/S.Korea

- Farm Registration
- Pre Harvest Process
- Post Harvest Process
- Desapping of Fruits
- Cleaning & Washing of Fruits
- Sorting & Grading
- Packaging, Labelling/ Marking
- Inspection by NIPPO
- Issuance of PSC
- Loading, sealing of vehicle & transport to airport
- Loading to aircargo

Initiating submission of documents of VHT facility to APQA, South Korea and MAFF, Japan for approval of the facilities for export of mangoes to respective countries every year



# Vapour Heat Treatment (VHT)



# Irradiation Facility

Infrastructure set up by APEDA	Government	Exporters	Total
Irradiation Units (Nashik, Vashi, Malur, Ahmedabad)	3	1	4



# Irradiation Facility

- APEDA signed Cooperative service Agreement with USDA APHIS for cooperative export of fruits from India to USA.
- Coordinated with USDA for invitation, stationing of USDA officials to three Irradiation plants



# Reefer Van

Financial assistance for Purchase of insulated, reefer transport /mobile pre-cooling units including special vehicle for livestock carriers

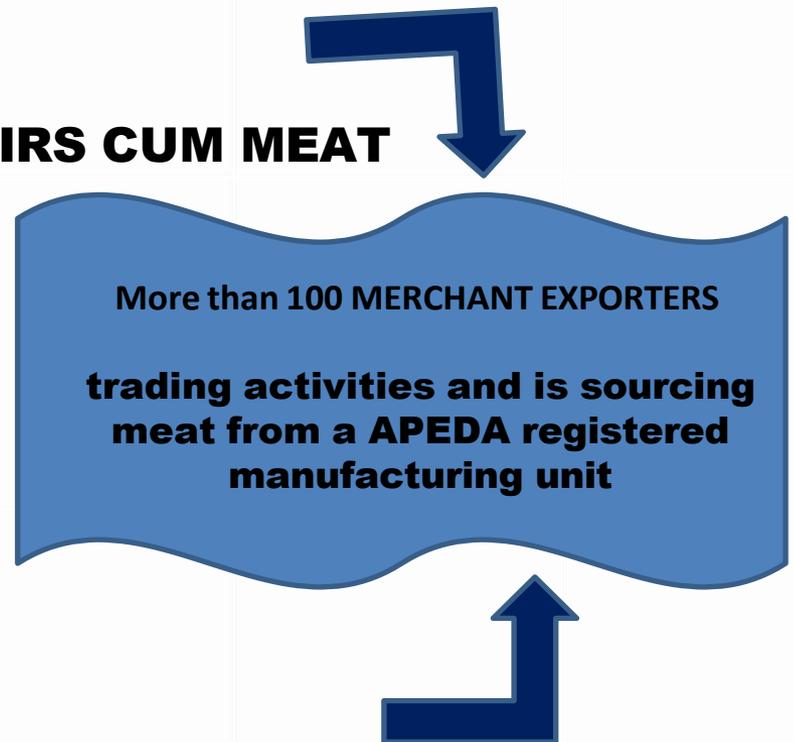


# Peanut Processing unit



# REGISTRATION OF MEAT PLANTS

- **71 APEDA INTEGRATED ABATTOIRS CUM MEAT PROCESSING PLANTS**
- **17 APEDA REGISTERED MEAT PROCESSING PLANTS**
- **6 STAND-ALONE ABATTOIRS**



# Modern state of art Abattoirs cum Meat Processing Plants



# Modern state of art Abattoirs cum Meat Processing Plants



# Food Testing Laboratory



# Food Testing Laboratory



There are **122 commercial food testing laboratories (NABL accredited) & ISO-17025** authorized by APEDA in 18 States for quality certification for its scheduled products.

## Centre for Perishable Cargo (CPC)

Infrastructure set up by APEDA	Government	Exporters	Total
Centers for Perishable Cargo	12	-	12

Infrastructure like CPC/specialized cargo handling facilities at major airports i.e. Delhi, Mumbai, Chennai, Bengaluru, Hyderabad and Thiruvananthapuram have been set up.



- Integrating NPPO documents, its issuance by e-Phyto markets in Government and private sector,
- AAI facilitating exports by upgradation of cold chambers,
- upgrading skills of handling perishables,
- E- processing of documents to save crucial time

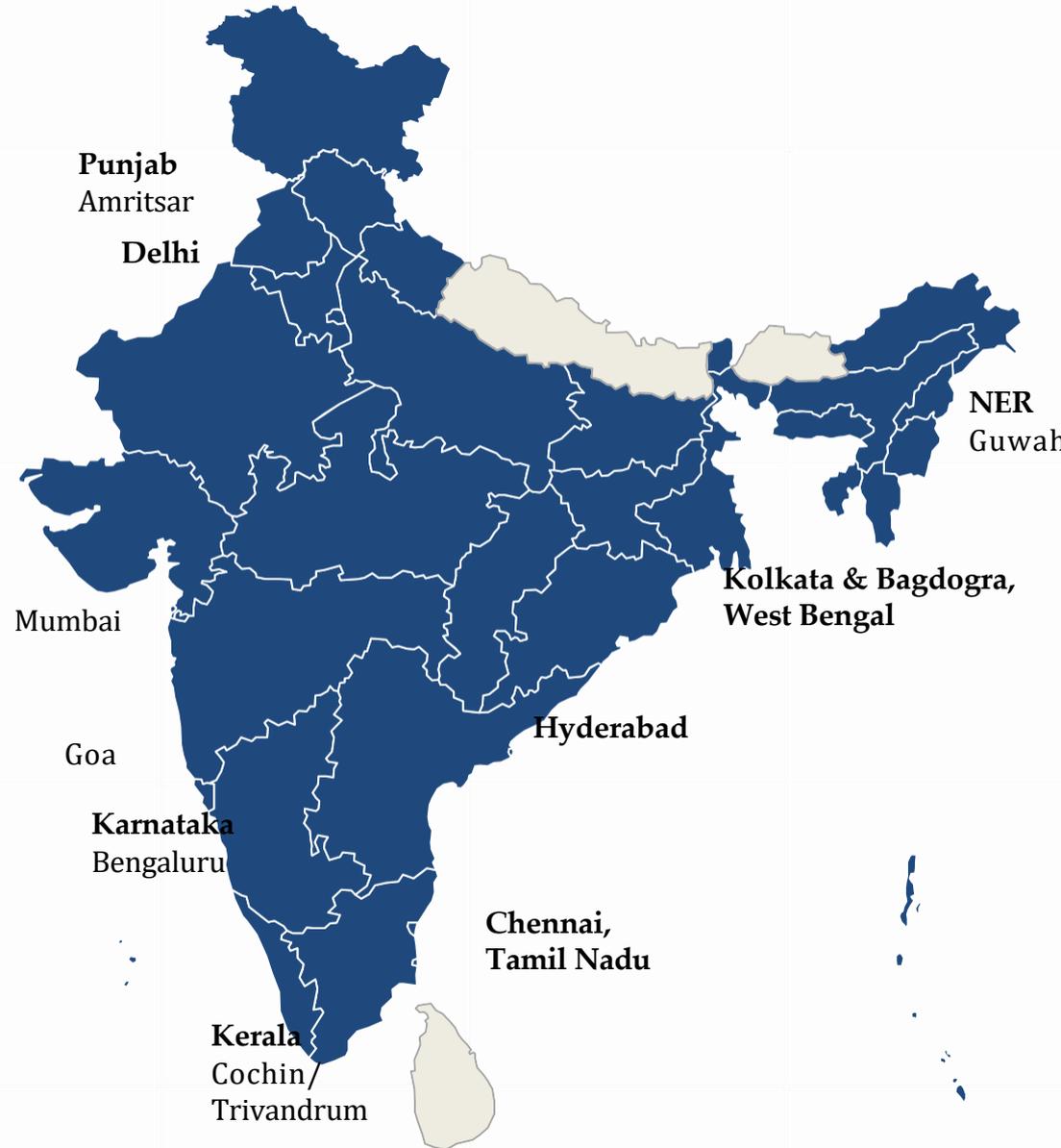
# CPC Mumbai



# CPC Cochin



# Centre for Perishable Cargo (CPC) at key Airports



# FLOWER AUCTION CENTERS

Infrastructure set up by APEDA	Government	Exporters	Total
Flower auction Centers	3	-	3



**International Flower Auction, Hebbal (Bengaluru) offers the largest global market for selling all cut/dried flowers and live plants, also equipped with an efficient and competent supply chain**

# FLOWER AUCTION CENTERS





**THANK YOU**