



A TRUSTED KNOWLEDGE PARTNER

Agri Value Chain Services Pvt Ltd,  
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### **A trusted knowledge partner.**

Agri Value Chain Services Private Limited (AVC) is a design, engineering and project management consulting firm established in 2014 at Chennai, India. AVC encourages and guides cold chain & food processing industry project investments in Agriculture, Horticulture, Dairy, Poultry and Fishery sector. AVC has the expertise and knowledge to setup projects across in India, Asia and Africa.

**INTEGRATED COLD CHAIN AND PACKHOUSES SOLUTIONS**



## Our Mission

To improve the **“Availability and Affordability”** of food by reduction in post harvest and supply chain losses.

### **Improving food and Nutrition security**

Guiding private and public sector investments in post-harvest management, integrated cold chain, food processing and process cooling.

### **Skill development & capacity building**

Strengthening institutional capacity through skill development programs in post-harvest, Agri logistic management.

### **Protecting our planet**

Institutional support to NGO's, state, government & international organizations for reducing climate change & environment impact in the ago-food supply chain through energy-efficiency and renewable energy solutions.

### **Global Value chain development**

Global value chain development and International Cooperation for reducing poverty and malnutrition.

## Our mission goals and pillars



# Business Area of Expertise



Cold Store Facilities



Food processing plants



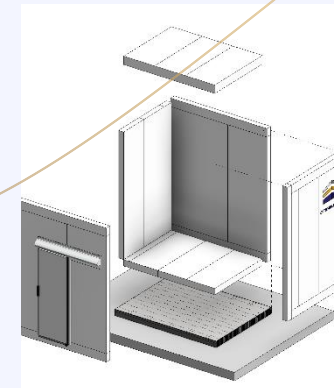
Warehouses and Distribution Centers



Port Temperature Controlled Logistics



Packhouses for Horticulture Products



Modular Cold Rooms





## End-to-End Services: From concept to Turnkey Project

### CONSULTATION



### DESIGN



### PROJECT MANAGEMENT



### TRAINING



Agrivaluechain Services offers comprehensive solutions, ranging from concept to complete turnkey.





# Integrated planning & Design of Post Harvest Management Infrastructure

Expertise in integrating science, engineering, and green technology to create value chain projects:

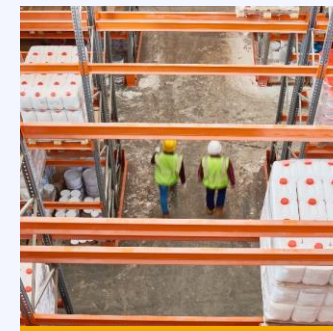
- Post-Harvest Management System
- Integrated Cold Chain Infrastructure
- Agri Logistics and distribution center
- Ripening and de-greening systems
- Agro Cluster Development



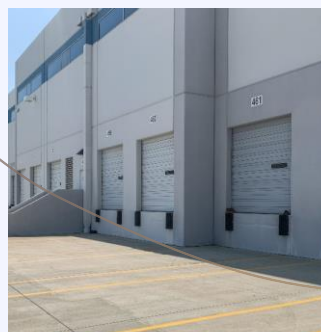
Packhouses



Insulated Building



Material Storage System



Docking Area



Refrigeration Plant



Solar Panels





# Post harvest Management Solution



1. Pack house Infrastructure design
2. Post harvest Process Plan
3. Post harvest protocols for domestic and export markets



# Integrated Cold Chain Facility and Distribution center - Project References

## Location: Tamil Nadu

Year of completion: 2014

Client: NSR Farm Fresh

Project Value: 30 Crores

## PROJECT FACTS

Building Floor Area: 80000sqft

Capacity of Cold Storage: 8000 MT

Cold Rooms: 8 Rooms

Temperature: +20°C to -20°C

## SCOPE OF SERVICES

- Turnkey Design
- Project Management consulting services for Insulated building
- Docking system
- Freon Split Refrigeration plant
- Control system and Automation system

## TYPE OF FACILITY

- Short construction time
- New concept as regards Docking Stations
- Very low energy consumption
- Hygienic and easy to clean



Material Storage



Material Handling



Racking System



Docking System





# Gati Kausar Cold Chain

Location: Haryana

Year of completion: 2015

Client: Gati Kausar Cold Chain  
Dharuhera

Project value: 40 Crores

## PROJECT FACTS

Building Floor Area: 50000sqft

Capacity of Cold Storage: 5400 Pallets

No of Cold Rooms: 8 Rooms

Temperature: +2° to -20°C

Refrigeration plant: Ammonia  
centralised system

Product Stored: Fresh and Frozen  
Products

## SCOPE OF SERVICES

- Design
- Project Management
- Consulting services for Refrigeration plant, and Automation system.

## TYPE OF FACILITY

Integrated Cold Chain and 3PL  
Distribution centre



Material Handling



Material Storage



Evaporator Unit



Refrigeration System





# Integrated Cold Chain with CA technology

**Location:** Uttar Pradesh

Year of completion: 2016

Client: MKC Agro Fresh

Project value: 30 Crores

## PROJECT FACTS

Building Floor Area: 50000sqft

Capacity of Cold Storage: 3000 Pallets

Cold Rooms: 14 Rooms

Storage: Controlled Atmosphere for apples

Ripening Chambers: 80 MT per day

Refrigeration plant: Brine Circulation system

## SCOPE OF SERVICES

- Design
- Project Management
- Consulting services for Refrigeration plant of CA storage
- Ripening Rooms
- Automation system

## ACHIEVEMENT

- Turnkey project features over 12,000 sqm facility including ripening facilities, pre-cooling, packing area and cold storage.
- Focus on developing local teams' skills for installation, enhancing operational efficiency and driving economic growth.



Processing Hall



Sorting



Packing



Electric Control Panel



# TNWC Cold Storage

## Location: Tamil Nadu

Year of completion: Ongoing

Client: Tamilnadu Warehousing Corporation

Project Value: 4 Crores

## PROJECT FACTS

Building Floor Area: 10000sqft

Capacity of cold storage: 500 MT

Cold Rooms: 8 Rooms

Temperature: 2°C to 15°C

Relative Humidity: 85% to 90%

Solar Pv panel: 50 Kwp

Products stored: Fruits and Vegetables

## SCOPE OF SERVICES

- Turkey Design
- Project Management
- Consulting services for Insulated building
- Freon Split Refrigeration plant
- Solar Pv system
- Automation system

## TYPE OF FACILITY

Solar Supported Cold storage for Fruits and Vegetables



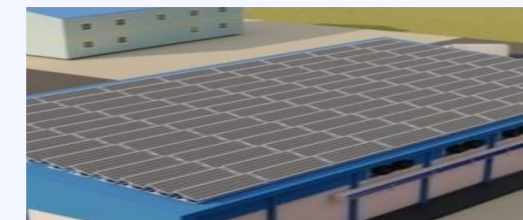
Solar Pv System



Side View



Back View



Top View





# Distinct Snow Land Cold Chain

**Location:** Tamil Nadu

Year of completion: 2020

Client: **Distinct Snow Land**

**Project Value: 15 Crores**

## PROJECT FACTS

Cold Storage Floor Area: 7000 sqft

Room Temperature: 1°C to 10°C

Distribution Centre Area: 8000 sqft

Solar PV Panel capacity: 75 Kwp

Refrigeration Capacity: 160kw

No. of Cold Rooms: 6

No. of Pre cooling Room: 2

## SCOPE OF SERVICES

- Cladding and roofing.
- Turnkey Design and Project Management Consulting services for Insulated building
- Docking system
- Refrigeration plant
- Control system
- Automation system

## TYPE OF FACILITY

Integrated Cold Chain Facility and Distribution centre - Solar Energy Supported with PV panels



**Material Storage**



**Refrigeration System**



**Material Handling**



**Electronic Control Panel**





# Integrated Cold Chain and Distribution Center

**Location: Pattambi, Kerala.**

Year of completion: 2024

Client: AMA International

Project Value: 15 Crores

## PROJECT FACTS

Capacity: 30 to 40 Metric tons per day turnover of distribution with storage capacity of 1500 pallets

## SCOPE OF SERVICES

- Logistic Systems: Docking, Double deep racking, barcoding, palletizing, and traceability.
- Thermal Building: Kingspan Quad core technology & automatic high-speed doors
- Refrigeration: Eurovent certified equipment to maintain temperature and high RH.

## ACHIEVEMENTS

- Energy Efficiency through Automatic electronic controllers and Central monitoring & control system
- Planted trees around for green cover, Rainwater harvesting, integrated with Roof top Solar PV system of 150 kWp to reduce carbon footprint



**Material Storage**



**Thermal Insulation**



**Refrigeration System**



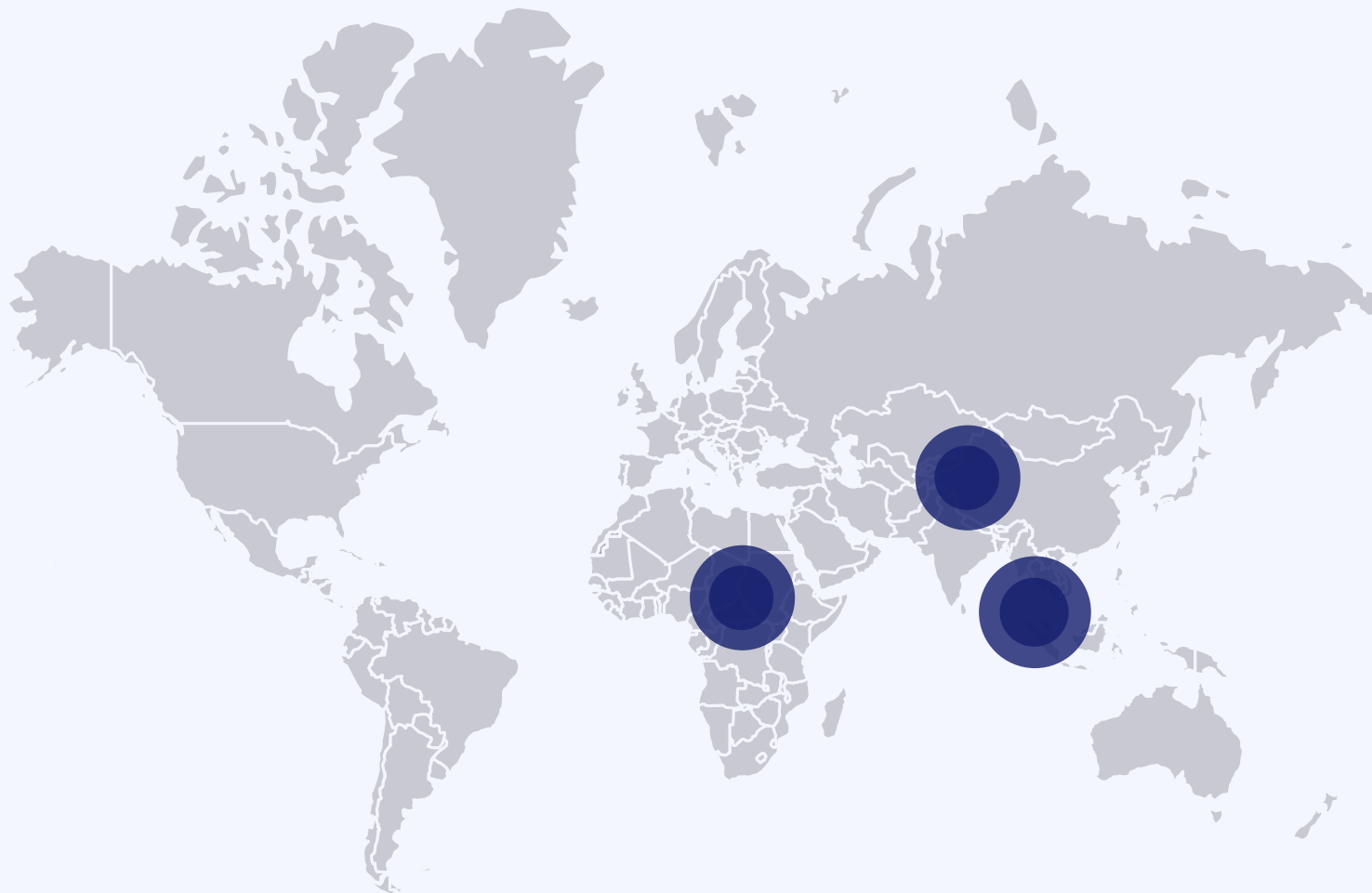
**Logistic System**



# Global Reach

## In-house Expertise.

We specialize in tackling challenging ambient conditions in **Asia, Africa and Middle East**, providing efficient, sustainable solutions every time.





# PHM operations in a pack house



Receiving from Farm



Washing



Drying



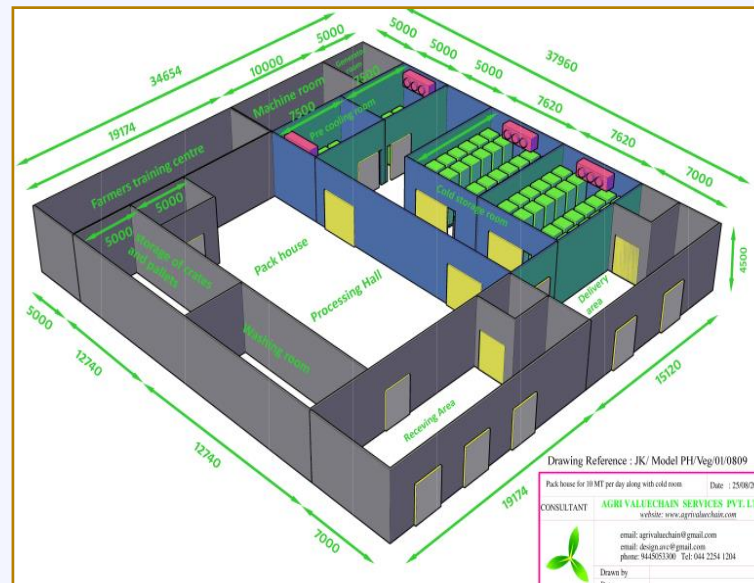
Sorting & Grading



Quality Checking



Domestic & Export Packing



Multi-Vegetables Pack-House



Holding in Cold room



Pre-Cooling





## Case Study

# Environmental Impact of Solar panel Integration in Cold Chain project

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**Year:** 2020

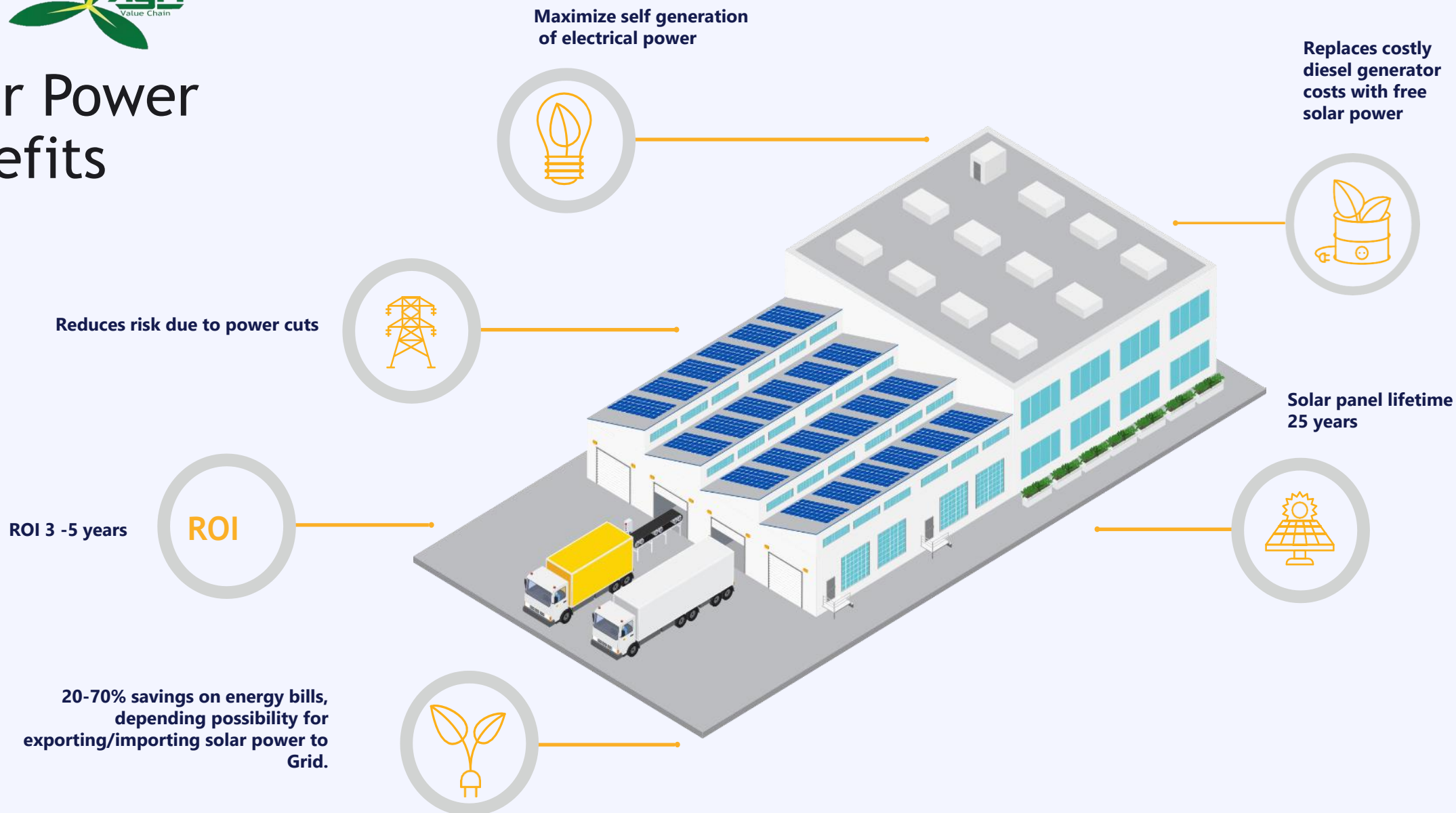
**Client:** Distinct Snowland Cold Chain

**Location:** Erode, Tamil Nadu





# Solar Power Benefits





# Distinct Snow land Cold Chain

Solar Integration in cold storage and Environmental Impact

*Installed Capacity : 75 kwp*

Year	kWh Generated	CO2 reduction	No of Trees Saved
2021	97.20 mwh	470 metric tonnes	64000 trees
2022	110.12 mwh		
2023	92.88 mwh		
2024	112.47 mwh		

