

Agri Value Chain Service Private Limited

Project References



Agrivaluechain Services Pvt Ltd.

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About Agri Value Chain

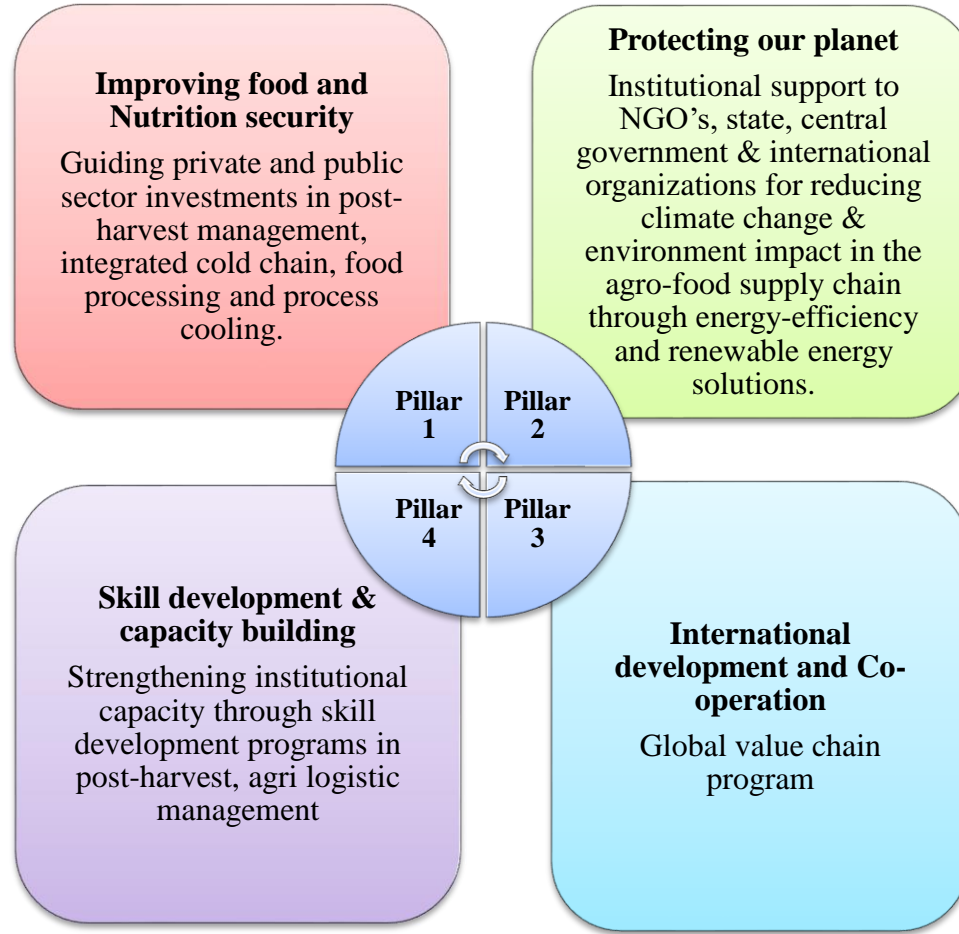
AVC:

- 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.

AVC Mission:

To improve the availability and affordability of food by reduction in post harvest and supply chain losses.

Reaching our mission goals through AVC pillars:-



AVC's innovative approach in project designs and protocols

Core competency in application of crop science, value engineering, adoptive green technology and project management consulting services for

- Post-Harvest Management System.
- Integrated Cold Chain Infrastructure
- Agri Logistics and distribution center.
- Tropical fruits ripening and de-greening systems.
- Fruits and vegetable Wholesale Market.
- Agri Knowledge Park.

Integrated planning & Design of Post Harvest Management Infrastructure



Pack House



Integrated cold chain infrastructure



Insulated Building



Refrigeration Plant



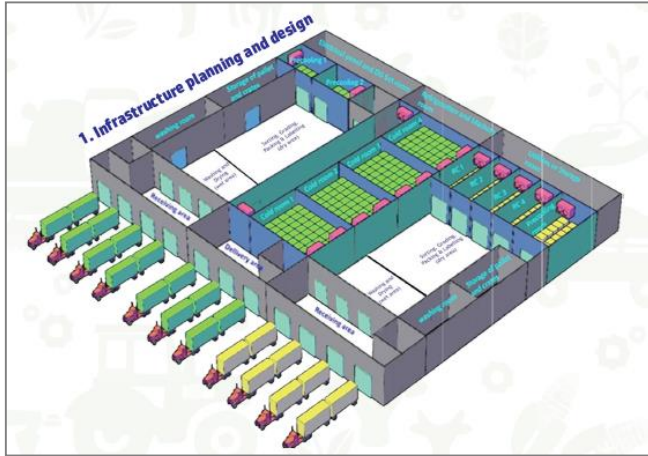
Material Storage System



Solar Panels

Post Harvest Management solutions

Scope of services



Sorting



Grading



Precooling



Barcoding



Packing

Scope of PHM

1. Pack house infrastructure design
2. Post harvest process planning
3. Post harvest protocols

AVC-List of Key Project References

1. Distinct Snow Land, Erode, Tamil Nadu
2. Gati Kausar Cold Chain, Haryana
3. MKC Agro Fresh, Uttar Pradesh
4. NSR Farm Fresh, Dindugul, Tamil Nadu
5. Tamil Nadu Warehousing Corporation, Theni, Tamil Nadu
6. Uniliver Oleo Chemicals, Indonesia
7. AMA International, Kerala

DISTINCT SNOW LAND

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



Project Name & Location	DSL ((Erode, Tamil Nadu)
Year of completion	2020
Project Value (Rs)	15 Crores
AVC Scope	Turkey Design and Project Management consulting services for Insulated building, Docking system, Refrigeration plant, Control system and Automation system
Cold Storage Floor Area	7000 sqft
Room Temperature	1° to 10°C
Distribution Centre Area	8000 sq.ft
Solar PV Panel capacity	75 Kwp
Refrigeration Capacity	160kw
No. of Cold Rooms	6
No. of Pre cooling Room	2



Refrigeration System



Material Handling



Material Storage



Electronic Control Panel



Solar System

GATI KAUSAR COLD CHAIN

Integrated Cold Chain and 3PL Distribution centre



Project Name & Location and year of completion	Gati Kausar Cold Chain Dharuhera, Haryana 2015
Project Value (Rs)	40 Crores
AVC Scope	Design and Project Management consulting services for Ammonia Refrigeration plant, Control Atmosphere system and Automation system.
Building Floor Area	50000sqft
Capacity of Cold Storage	5400 Pallets
No of Cold Rooms	08 Rooms
Temperature	+2° to -20°C
Refrigeration plant	Ammonia centralised system
Product Stored	Fresh & Frozen Products



Refrigeration System



Evaporator unit



Material Handling



Material Storage

MKC AGRO FRESH

Integrated Cold Chain with CA technology for Cold stores



Project Name & Location and year of completion	MKC Agro Fresh Greater Noida, Uttar Pradesh 2016
Project Value (Rs)	40 crores
AVC Scope	Design and Project Management consulting services for Refrigeration plant of CA storage, Ripening Rooms and Automation system
Building Floor Area	50000sqft
Capacity of Cold Storage	3000 Pallets
No of Cold Rooms	14 Rooms
Storage	Controlled Atmosphere Storage for apples
Ripening Chambers	80 MT per day Ripening Capacity
Refrigeration plant	Brine Circulation system



Processing Hall



Sorting



Packing



Electric Control Panel

NSR FARM FRESH

Integrated Cold Chain Facility and Distribution centre



Project Name& Location and year of completion	NSR Farm Fresh Dindugal, Tamil Nadu 2014
Project Value (Rs)	30 crores
AVC Scope	Turkey Design and Project Management consulting services for Insulated building, Docking system, Refrigeration plant, Control system and Automation system
Building Floor Area	80000sqft
Capacity of Cold Storage	8000 MT
No of Cold Rooms	08 Rooms
Temperature	+20°C to -20°C
Refrigeration plant	Freon Split Refrigeration plant



Out side view



Material Storage



Material Handling



Racking System



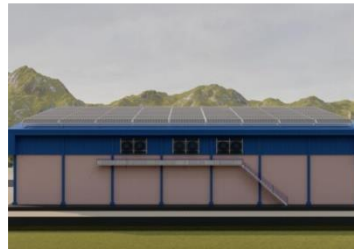
Docking System

TAMILNADU WAREHOUSING CORPORATION

Solar Supported cold storage for Fruits and Vegetables



Top View



Back View



Side View

Project Name & Location	TNWC Cold Storage Mettupalayam, Tamil Nadu
Project Value (Rs)	4 Crores
AVC Scope	Turkey Design and Project Management consulting services for Insulated building, Refrigeration plant , solar pv system and Automation
Building Floor Area	10000sqft
Capacity of cold storage	500 MT
No of Cold Rooms	08 Rooms
Product stored	Fresh fruits and Vegetables
Temperature	2 °to 15°C
Refrigeration plant	Freon Split Refrigeration plant
Relative Humidity	85% to 90%
Solar Pv panel	50 Kwp

UNILIVER OLEO CHEMICALS, INDONESIA

Ware House air conditioning



Project Name & Location	Unilever Oleo Chemicals, Medan, North Sumatra in Indonesia , 2021
Year of completion	
Project Value	USD 400,000
AVC Scope	Design of Ware House HVAC plant
Building Floor Area	7000 sqft
Capacity of warehouse	800 pallet position
Product stored	Soaps and Chemicals
Temperature	20°C to 22 °C
Relative Humidity	50 to 60%
Refrigeration plant	Chilled water system
Refrigerant	R1234 Ze



Material Storage



Warehouse



Chilled water circulation



Chiller package

AMA International, Pattambi, Palakkad, Kerala, India

Integrated Cold chain and Distribution centre



Project Name & Location	AMA International, Pattambi, Palakkad, Kerala, India.
Project Value	15 crores
Capacity	30 to 40 Metric tons per day distribution with storage capacity of 1500 pallets
Logistics 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.
Energy Efficiency	Automatic electronic controllers and Central monitoring & control system
Environment Sustainability	Planted trees around for green cover, Rainwater harvesting, integrated with Roof top Solar PV system of 150 kWp to reduce carbon footprint
Year of Completion	2024