



# ADIABATIC COOL CRAFT PVT. LTD.

## FPC INFRASTRUCTURE DEVELOPMENT PROGRAM

Helping Farmer Producer Companies Build Profitable Agri Infrastructure Businesses



### TURN YOUR FPC INTO A REVENUE-GENERATING BUSINESS PLATFORM

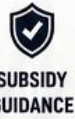
Cold Storage • Banana Ripening • Packhouse • Pre-Cooling



PROJECT CONSULTANCY



BANK LOAN ASSISTANCE



SUBSIDY GUIDANCE



TURNKEY EPC EXECUTION



AMC & TECHNICAL SUPPORT



BUSINESS DEVELOPMENT SUPPORT



FPC-FOCUSED INFRASTRUCTURE MODELS



IF YOUR FPC WANTS TO BUILD A REAL BUSINESS — CONNECT WITH US TODAY.

### IS YOUR FPC FACING THESE PROBLEMS?

COMMON FPC PROBLEMS	RESULT
✗ No business activity	Low farmer confidence
✗ No infrastructure	Product loss
✗ No cold storage	Distress selling
✗ No technical knowledge	No growth
✗ No market linkage	Low profitability
✗ No funding support	Project delays
✗ No project planning	Business uncertainty

### WE UNDERSTAND YOUR CHALLENGES

#### MOST FPCS HAVE:

- Farmers
- Agricultural products
- Local trust
- Registered company structure

#### BUT MANY LACK:

- Infrastructure
- Technical support
- Bankable project planning
- Execution capability
- Long-term business strategy

### PROJECTS WE HELP

#### Banana Ripening Project



#### Cold Storage Project



#### Packhouse Infrastructure



#### Button Mushroom Project



#### Block Ice Plant



#### Ice Cream Project



### HOW WE HELP YOUR FPC COMPLETE SUPPORT UNDER ONE ROOF

SERVICE	WHAT WE DO
Market Research	Identify business opportunity
DPR Preparation	Prepare bankable project report
Financial Planning	ROI, DSCR & viability study
Loan Assistance	Support bank loan process
Subsidy Guidance	Help identify schemes
Engineering Design	Technical planning & layout
EPC Execution	Complete project installation
AMC Support	Long-term maintenance
Staff Training	Operational support

#### OUR OBJECTIVE

We Do Not Just Build Projects — We Help Build Sustainable FPC Businesses.™

### BUSINESS OPPORTUNITIES FOR FPCS

FPC TYPE	RECOMMENDED PROJECT
Banana FPC	Ripening Chamber
Potato FPC	Cold Storage
Vegetable FPC	Pre-Cooling + Storage
Fishery FPC	Frozen Storage
Dairy FPC	Milk Chilling Unit
Fruit FPC	Ripening + Packhouse

#### BENEFITS TO FPCS

With Proper Infrastructure, FPCS Can:

- ✓ Reduce product spoilage
- ✓ Improve farmer pricing
- ✓ Store products scientifically
- ✓ Create regular business activity
- ✓ Generate monthly revenue
- ✓ Build market linkage
- ✓ Increase member confidence
- ✓ Improve long-term sustainability

### FUNDING SUPPORT MODELS

"No Land? No Investment? No Technical Knowledge?" We Can Still Explore Practical Business Models.

MODEL	EXPLANATION
Cluster Model	Shared infrastructure for multiple FPCs
Investor Partnership	Investor + FPC + EPC model
Small Starter Project	Low-investment pilot model
Revenue Sharing	Infrastructure partnership model
Lease Model	Operate without large ownership burden

#### WE HELP FPCS WITH

- Project Structuring
- Technical Planning
- Financial Guidance
- Operational Planning
- Long-Term Maintenance

### WHY FPCS TRUST US

- ✓ Complete Cold Chain Expertise
- ✓ Refrigeration Engineering Experience
- ✓ FPC-Focused Development Approach
- ✓ Long-Term Technical Support
- ✓ Energy-Efficient Design
- ✓ Professional Documentation
- ✓ End-to-End Project Management
- ✓ Practical Ground-Level Understanding

### OUR SUPPORT JOURNEY



### OUR VISION FOR FPCS

"Transforming Farmer Producer Companies Into Sustainable Agri Business Enterprises."

We believe that:
• modern infrastructure,
• scientific storage,
• refrigeration technology,
• and long-term technical support can help FPCs become stronger business organizations.

#### FUTURE OPPORTUNITIES

- ✓ Regional cold-chain networks
- ✓ Scientific banana ripening systems
- ✓ Farmer supply-chain platforms
- ✓ Agri processing infrastructure
- ✓ Market linkage systems
- ✓ Long-term farmer income growth



### LET'S BUILD YOUR FPC BUSINESS TOGETHER

Contact Us Today For:

- ✓ Free Initial Discussion
- ✓ Project Concept Support
- ✓ Technical Consultancy
- ✓ FPC Development Planning

### ADIABATIC COOL CRAFT PVT. LTD.

Complete Cold Chain & Refrigeration Infrastructure Partner

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#### TAGLINE

From Concept to Commissioning — And Beyond.



# ADIABATIC COOL CRAFT PVT. LTD.

FROM CONCEPT TO COMMISSIONING AND BEYOND

## COMPLETE SOLUTION FOR FRUIT RIPENING PROJECTS



DESIGN



ENGINEERING



INSTALLATION



AMC & SUPPORT

# FRUIT RIPENING CHAMBER SOLUTIONS

Smart Ripening. Better Quality. Higher Value.

Advanced ethylene-based ripening technology designed for uniform ripening, extended shelf life and maximum profitability.



**UNIFORM RIPENING**  
Even ripening with controlled Ethylene & Temperature



**BETTER QUALITY**  
Enhances color, taste and overall fruit quality



**HIGHER PROFIT**  
Reduces wastage & increases market value



**EXTENDED SHELF LIFE**  
Improves storage life and supply chain efficiency



**ENERGY EFFICIENT**  
Optimized systems for low power consumption & high performance

### OUR COMPLETE RIPENING PROJECT SOLUTIONS



Project Consultancy



Engineering & Design



Turnkey EPC Execution



Refrigeration & HVAC



Automation & Controls



Testing & Commissioning



AMC & Technical Support

### RIPENING CHAMBER PROJECTS WE OFFER

#### BANANA RIPENING CHAMBER



Perfect yellow bananas with longer shelf life and excellent quality

#### MANGO RIPENING CHAMBER



Uniform ripening with natural color, aroma & sweetness

#### PAPAYA RIPENING CHAMBER



Controlled ripening for better quality & market value

#### MULTI FRUIT RIPENING CHAMBER



Ripening solutions for multiple fruits as per requirement

#### ETHYLENE GENERATION SYSTEM



Safe & efficient ethylene generation for consistent ripening performance

### THE RIPENING PROCESS WORKFLOW

1

**LOADING**  
Fresh fruits are loaded into chamber



2

**ETHYLENE DOSING**  
Ethylene gas introduced in controlled level



3

**TEMPERATURE & HUMIDITY CONTROL**  
Ideal conditions maintained for perfect ripening



4

**RIPENING PROCESS**  
Uniform ripening with color, aroma & taste



5

**UNLOADING & DISPATCH**  
Ready for market with premium quality



#### WHY PARTNER WITH US?

- ✓ 15+ Years of Industry Experience
- ✓ 100+ Successful Projects Pan India
- ✓ Advanced Technology & Energy Efficient Systems
- ✓ End-to-End Project Execution

- ✓ FPC / FPO Friendly Models
- ✓ Bank Loan & Subsidy Assistance
- ✓ Long Term AMC & Support
- ✓ From Concept to Commissioning and Beyond

#### IDEAL FOR

FPCs | FPOs | Cooperatives  
Agri Entrepreneurs | Exporters  
Fruit Traders | Food Processing Units



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PROFITABLE INFRASTRUCTURE  
TOGETHER



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**ADIABATIC**  
COOL CRAFT PVT. LTD.

FROM CONCEPT TO COMMISSIONING AND BEYOND

COMPLETE TURNKEY SOLUTION FOR  
**COLD STORAGE PROJECTS**



DESIGN



ENGINEERING



INSTALLATION



AMC & SUPPORT

# MULTI PURPOSE COLD STORAGE PROJECTS

SMART STORAGE. MAXIMUM VALUE.

Advanced technology, energy efficient systems and customized solutions for safe, hygienic and long-term storage of your valuable products.



## IDEAL FOR STORING



FRUITS & VEGETABLES



DAIRY PRODUCTS



FISH & MEAT



ICE CREAM & FROZEN FOODS



PHARMACEUTICALS & HEALTHCARE



FOOD PROCESSING INDUSTRIES

### PROJECT INFRASTRUCTURE

- PUF Insulated Panels
- High Efficiency Refrigeration System
- Energy Efficient Condensing Units
- Advanced Evaporator Units
- Smart Automation & Control Panel
- Humidity & Temperature Control
- Dock Levelers & Loading Area
- Fire Safety & Security Systems

### TYPES OF COLD STORAGE

- Pre-Cooling Room
- Chiller Room (0°C to +5°C)
- Frozen Storage (-18°C to -25°C)
- Blast Freezer
- Ripening Chamber
- Multi Commodity Storage
- Controlled Atmosphere Storage

### CAPACITY OPTIONS

- 5 MT**  
Small Scale Storage
- 10 MT**  
Medium Scale Storage
- 25 MT**  
Commercial Storage
- 50 MT**  
Large Scale Storage
- 100 MT+**  
Industrial Scale Storage
- MODULAR EXPANSION**  
As per Future Requirement

### INDUSTRIES WE SERVE

- FPC / FPO
- Agriculture & Horticulture
- Food Processing Units
- Dairy Industry
- Fisheries & Marine
- Pharmaceuticals
- Ice Cream Industry
- Retail & Distribution

### OUR COMPLETE PROJECT WORKFLOW



CONSULTATION



SITE SURVEY



DPR PREPARATION



DESIGN & ENGINEERING



INSTALLATION



TESTING & COMMISSIONING



AMC & SUPPORT



**ENERGY EFFICIENT**  
Lower Power Consumption



**MAXIMUM SHELF LIFE**  
Better Quality & Freshness



**HYGIENIC & SAFE**  
International Standards Compliance



**HIGH ROI**  
Better Returns & Business Growth



**COMPLETE TURNKEY**  
End-to-End Execution & Support

LET'S BUILD YOUR  
COLD STORAGE PROJECT  
TOGETHER!

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QUICK RESPONSE | EXPERT SUPPORT

SMART STORAGE TODAY, STRONGER BUSINESS TOMORROW



# ADIABATIC COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

COMPLETE TURNKEY SOLUTIONS FOR

# POST HARVEST PROJECTS

YOUR PROFESSIONAL PARTNER

FOR POST HARVEST PROJECTS

We are a professionally managed engineering company engaged in turnkey solutions for a wide range of post harvest projects. Our mission is to deliver smart, sustainable and profitable infrastructure solutions that add value to your business and strengthen the agri supply chain.



ADVANCED  
TECHNOLOGY



ENERGY  
EFFICIENT



HYGIENIC  
& SAFE



LONG TERM  
RELIABILITY

## OUR POST HARVEST PROJECTS



### COLD STORAGE

Safe storage for fruits, vegetables & more



### MULTI PURPOSE COLD STORAGE

Multi-commodity storage with precision temperature



### FRUIT RIPENING PROJECTS

Controlled ripening for Banana, Mango, Papaya & more



### BUTTON MUSHROOM PROJECTS

Complete solution for modern mushroom cultivation



### BLOCK ICE PROJECTS

High quality block ice for industrial & commercial use



### SMALL ICE CREAM PROJECTS

Compact & efficient solutions for ice cream production



### OUR SERVICES

- ✓ Project Design & Engineering
- ✓ Material Supply
- ✓ Project Supervising
- ✓ Project Run & Commissioning
- ✓ AMC Service & Maintenance



### PROJECT CONSULTANCY

- ✓ Project Consultancy & DPR
- ✓ Detailed Project Report (DPR)
- ✓ Financial Loan Assistance
- ✓ Subsidy Support & Guidance
- ✓ Market Study & Viability Analysis



### WHY CHOOSE US?

- ✓ Turnkey Solutions Under One Roof
- ✓ Latest Technology & Energy Efficient Systems
- ✓ Timely Delivery with Quality Assurance
- ✓ Strong After Sales & AMC Support
- ✓ Customer Satisfaction Is Our Priority



### OUR COMMITMENT

## QUALITY TRUST INNOVATION

We are committed to creating world-class infrastructure that enhances shelf life, reduces post harvest losses and maximizes your profitability.



TURNKEY  
EXECUTION



ADVANCED  
TECHNOLOGY



ENERGY  
EFFICIENT



COST  
EFFECTIVE



SUSTAINABLE  
SOLUTIONS

LET'S BUILD  
YOUR SUCCESS  
TOGETHER

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SMART SOLUTIONS FOR A STRONGER TOMORROW



# ADIABATIC COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

# BLOCK ICE PROJECTS

ADVANCED ICE SOLUTIONS FOR  
INDUSTRIAL & COMMERCIAL NEEDS



We deliver complete turnkey Block Ice Projects designed for maximum performance, durability and energy efficiency.



HIGH ICE  
CLARITY



ENERGY  
EFFICIENT



HEAVY DUTY  
PERFORMANCE



ENVIRONMENT  
FRIENDLY



LOW POWER  
CONSUMPTION

## OUR BLOCK ICE PROJECT SOLUTIONS



### INDIAN MADE ICE MACHINE

High efficiency, low power consumption & robust Indian made machine.



### PURE & CLEAR BLOCK ICE

Crystal clear, solid block ice suitable for industrial, commercial & marine applications.



### CUSTOMIZED SOLUTIONS

Tailor-made solutions based on capacity requirement & site conditions.



### ENERGY EFFICIENT SYSTEMS

Optimized refrigeration systems for low power consumption & high output.



### STRONG & DURABLE CONSTRUCTION

Built with high quality materials for long-lasting performance in tough environments.



### WIDE RANGE OF APPLICATIONS

Ideal for fisheries, dairy, concrete cooling, food processing, hotels & more.

### PLANT CAPACITY OPTIONS



1 TON / DAY  
Small Scale Unit



5 TON / DAY  
Medium Scale Unit



10 TON / DAY  
High Capacity Unit



20 TON / DAY & ABOVE  
Industrial Scale Unit



### OUR TURNKEY SERVICES

- ✔ Project Consultation & Feasibility Study
- ✔ Plant Design & Engineering
- ✔ Equipment Manufacturing & Supply
- ✔ Installation & Commissioning
- ✔ Training & Operational Support
- ✔ After Sales Service & AMC Support



### WHY CHOOSE US?

- ✔ Indian Made Advanced Technology
- ✔ Timely Project Delivery
- ✔ Skilled Technical Team
- ✔ Quality Assured Equipment
- ✔ Cost Effective Solutions
- ✔ Customer Satisfaction Guaranteed

### APPLICATIONS



FISHERIES



CONCRETE  
COOLING



DAIRY  
INDUSTRY



FOOD  
PROCESSING



HOTELS &  
HOSPITALITY



CHEMICAL  
INDUSTRY



TRANSPORT  
COOLING



### OUR COMMITMENT

We are committed to delivering world-class ice plant solutions with superior quality, excellent service and long-term reliability.

LET'S BUILD YOUR  
NEXT BIG PROJECT  
TOGETHER!

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SUSTAINABLE FUTURE



BUILT FOR PERFORMANCE



TRUSTED FOR GENERATIONS



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ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

# BUTTON MUSHROOM PROJECTS

## COMPLETE TURNKEY SOLUTIONS

### ADVANCED TECHNOLOGY FOR HIGH QUALITY & MAXIMUM YIELD

We deliver end-to-end Button Mushroom Projects designed for optimal growing conditions, higher productivity, energy efficiency and long-term profitability.



OPTIMAL  
GROWTH  
CONDITIONS



ENERGY  
EFFICIENT  
SYSTEMS



HIGHER  
PRODUCTIVITY  
& YIELD



RELIABLE  
& LONG TERM  
PERFORMANCE



## OUR TURNKEY PROJECT PHASES

### PHASE 1: BUNKER (COMPLETE VIEW)



- Insulated Bunker Construction
- Temperature & Humidity Control
- Strong & Durable Structure
- Optimal Conditions for Cultivation

### COMPOST YARD (COMPLETE VIEW)



- Proper Aeration & Moisture Management
- Hygienic & Well-Designed Compost Yard
- Efficient Waste Management System
- Consistent Quality Compost for Better Yield

### PHASE 2: TUNNEL (CORRIDOR VIEW)



- Corridors Connecting All Rooms
- Easy Material & Trolley Movement
- Maintains Hygiene & Cleanliness
- Insulated Panels for Energy Efficiency

## OUR BUTTON MUSHROOM PROJECT SOLUTIONS



### GROWING ROOM DESIGN

Well-insulated rooms with precise control of temperature, humidity, CO<sub>2</sub> & ventilation.



### CLIMATE CONTROL SYSTEMS

Smart HVAC & refrigeration systems for ideal growing environment and consistent performance.



### SS / GI CULTIVATION RACK SYSTEMS

Heavy-duty SS / GI racks for maximum space utilization and higher production capacity.



### COMPOSTING & SPAWN ROOMS

Optimized composting & spawn room solutions for healthy cultivation cycle and better yield.



### AUTOMATION & CONTROL PANELS

Smart automation for accurate monitoring, control & energy savings.



### HARVESTING & POST HARVEST

Best practices for harvesting, cooling, packing and better shelf life for premium market quality.

### PLANT CAPACITY OPTIONS

- 500 kg / day  
Small Scale Unit
- 1000 kg / day  
Medium Scale Unit
- 2000 kg / day  
Large Scale Unit
- 5000 kg / day & above  
Commercial Scale Unit



### OUR TURNKEY SERVICES

- ✔ Project Consultation & Feasibility Study
- ✔ Project Design & Engineering
- ✔ Equipment Manufacturing & Supply
- ✔ Installation & Commissioning
- ✔ Training & Operational Support
- ✔ After Sales Service & AMC Support



### WHY CHOOSE US?

- ✔ Indian Made Advanced Technology
- ✔ Timely Project Delivery
- ✔ Skilled Technical Team
- ✔ Quality Assured Equipment
- ✔ Cost Effective Solutions
- ✔ Customer Satisfaction Guaranteed



### APPLICATIONS



FRESH MUSHROOM  
PRODUCTION



CONTROLLED ENVIRONMENT  
FARMING



SUPER MARKET &  
RETAIL SUPPLY



FOOD PROCESSING  
INDUSTRY



HOTELS & RESTAURANT  
SUPPLY



EXPORT  
MARKET



### OUR COMMITMENT

We are committed to delivering world-class mushroom project solutions with superior quality, excellent service and long-term reliability.

LET'S BUILD YOUR  
NEXT BIG PROJECT  
TOGETHER!

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INNOVATIVE SOLUTIONS

SUSTAINABLE FUTURE

TRUSTED BY GENERATIONS



# ADIABATIC COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

YOUR PROFESSIONAL PARTNER  
FOR POST HARVEST PROJECTS

# PACK HOUSE COMPLETE PROJECT

## COMPLETE TURNKEY SOLUTIONS

End-to-end Pack House Solutions designed for quality handling, grading, packing, cooling and better shelf life to deliver maximum value from farm to market.



BETTER  
QUALITY



LONGER  
SHELF LIFE



HIGHER  
RETURNS



GLOBAL  
STANDARDS

### OUR PACK HOUSE PROJECT WORKFLOW



#### RECEIVING

Quality intake & inspection of produce



#### PRE COOLING & WASHING

Remove field heat & ensure cleanliness



#### SORTING & GRADING

Advanced sorting for uniform quality



#### PACKING

Hygienic packing as per buyer requirement



#### COLD STORAGE & PRESERVATION

Optimum storage for extended shelf life



#### DISPATCH & LOGISTICS

Timely delivery with complete traceability

### OUR PACK HOUSE SOLUTIONS



#### RECEIVING & PRE COOLING AREA

Well-designed receiving area with pre-cooling facility to maintain produce freshness.



#### WASHING & SANITIZATION

Efficient washing systems to ensure clean & safe produce.



#### SORTING & GRADING LINE

Advanced sorting & grading systems for accurate size and quality selection.



#### PACKAGING SOLUTIONS

Customized packing solutions using modern packing tables & machinery.



#### COLD STORAGE SYSTEMS

Reliable refrigeration systems for longer shelf life and quality preservation.



#### DISPATCH & LOGISTICS AREA

Smooth dispatch management for timely delivery to local & export markets.

#### INFRASTRUCTURE WE PROVIDE

- ☑ Insulated Panel Construction
- ☑ Temperature Controlled Rooms
- ☑ Pre Cooling Chambers
- ☑ Cold Storage Rooms
- ☑ Ripening Chambers
- ☑ Packaging Material Storage
- ☑ Drainage & Flooring Solutions
- ☑ Electrical & Control Systems

#### EQUIPMENT & MACHINERY

- ☑ Pre Cooling Units
- ☑ Washing & Sanitizing Systems
- ☑ Sorting & Grading Machines
- ☑ Conveyor Systems
- ☑ Packing Tables
- ☑ Weighing Scales
- ☑ Sealing & Labelling Machines
- ☑ Material Handling Equipment

#### OUR TURNKEY SERVICES

- ☑ Project Consultation
- ☑ Project Planning & Designing
- ☑ Equipment Selection
- ☑ Supply & Installation
- ☑ Testing & Commissioning
- ☑ Staff Training
- ☑ After Sales Service & AMC



#### WHY CHOOSE US?

- ☑ Complete Turnkey Solutions
- ☑ Advanced Technology
- ☑ Customized Designs
- ☑ High Quality & Durability
- ☑ Energy Efficient Systems
- ☑ Timely Project Delivery
- ☑ Excellent After Sales Support



#### IDEAL FOR



FRUITS & VEGETABLES



FLOWERS & PLANTS



SPICES & HERBS



FOOD PROCESSORS



EXPORT ORIENTED  
UNITS



FARM PRODUCER  
ORGANIZATIONS (FPO/FPC)

LET'S BUILD YOUR  
PACK HOUSE PROJECT  
TOGETHER!

From Concept to Commissioning  
and Beyond.



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ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

## SMALL ICE CREAM COMPLETE PROJECT

### COMPLETE TURNKEY SOLUTIONS

End-to-end Small Ice Cream Plant Solutions designed for premium quality, consistent taste, and higher profitability. From concept to commissioning – we build your success.



PREMIUM QUALITY



CONSISTENT TEXTURE



HIGHER PROFITABILITY



COMPLETE RELIABILITY

### OUR ICE CREAM PRODUCTION PROCESS



MIXING & INGREDIENT PREPARATION



PASTEURIZATION & HOMOGENIZATION



COOLING & AGING



FREEZING & OVERRUN



FILLING & PACKING



COLD STORAGE



DISPATCH & DISTRIBUTION

### COMPLETE PLANT & MACHINERY



MIXING TANK



PASTEURIZER HOMOGENIZER



AGING TANK



ICE CREAM FREEZER



FILLING & PACKING MACHINE



BLAST FREEZER



COLD STORAGE ROOM

### OUR TURNKEY SERVICES

- ✔ Project Consultation & Feasibility Study
- ✔ Plant Layout & 3D Designing
- ✔ Equipment Manufacturing & Supply
- ✔ Installation & Commissioning
- ✔ Testing & Trial Production
- ✔ Training & Operational Support
- ✔ After Sales Service & AMC Support



### WHY CHOOSE US?

- ✔ Complete Turnkey Solutions
- ✔ Advanced & Energy Efficient Technology
- ✔ Hygienic & Food Grade Construction
- ✔ High Quality & Durable Equipment
- ✔ Timely Project Delivery
- ✔ Cost Effective Solutions
- ✔ Customer Satisfaction Guaranteed



### PLANT CAPACITY OPTIONS



50 – 100 LITERS / BATCH  
Small Scale Unit



100 – 300 LITERS / BATCH  
Medium Scale Unit



300 – 500 LITERS / BATCH  
High Scale Unit



500 LITERS & ABOVE  
Customized Solutions



### WIDE RANGE OF ICE CREAM PRODUCTS



CUP ICE CREAM



CONE ICE CREAM



STICK & KULFI



FAMILY PACK



SUNDAES



PREMIUM PACKS

### IDEAL FOR



ICE CREAM STARTUPS



DAIRY FARMERS



FMCG BRANDS



CAFES & RESTAURANTS



HOTELS & RESORTS



DISTRIBUTORS & SUPPLIERS

LET'S BUILD YOUR  
ICE CREAM PLANT  
TOGETHER!

From Concept to Commissioning  
and Beyond.

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COMPLETE  
TURNKEY  
PROJECT

ON TIME, EVERY TIME



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BUILT FOR PERFORMANCE



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# ADIABATIC COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

# VACUUM FREEZE DRYING COMPLETE PROJECT

## COMPLETE TURNKEY SOLUTIONS

Advanced Freeze Drying Solutions for a Wide Range of Industries. From Concept to Commissioning – We Deliver Excellence in Every Project.



PREMIUM  
QUALITY



OPTIMAL  
PERFORMANCE



ENERGY  
EFFICIENT



MAXIMUM  
RETENTION  
OF NUTRIENTS



LONGER  
SHELF LIFE

### OUR FREEZE DRYING PROCESS



**1. PRE FREEZING**  
Quick & uniform freezing to preserve quality & structure



**2. PRIMARY DRYING (SUBLIMATION)**  
Ice is removed under vacuum by sublimation



**3. SECONDARY DRYING (DESORPTION)**  
Removal of residual moisture for long shelf life



**4. CONDENSER**  
Vapor is captured in the condenser at -50°C or below



**5. PACKING**  
Hygienic packing in moisture-proof materials



**6. STORAGE & DISTRIBUTION**  
Stored in optimal conditions for maximum product life

### WIDE RANGE OF APPLICATIONS



FRUITS & VEGETABLES



MEAT, FISH & SEAFOOD



PHARMACEUTICALS



COFFEE & BEVERAGES



HERBS & FLOWERS



BIOTECH & CULTURES

### COMPLETE PLANT & MACHINERY



VACUUM FREEZE DRYER



PRE FREEZING SYSTEM



CONDENSER UNIT



VACUUM SYSTEM



CONTROL PANEL



CIP SYSTEM



INSTALLATION & PIPING

### OUR TURNKEY SERVICES

- ✓ Project Consultation & Feasibility Study
- ✓ Process & Plant Designing
- ✓ Equipment Manufacturing & Supply
- ✓ Installation & Commissioning
- ✓ Testing & Validation
- ✓ Training & Operational Support
- ✓ After Sales Service & AMC Support



### WHY CHOOSE US?

- ✓ Advanced Technology & Innovation
- ✓ High Quality & Reliable Equipment
- ✓ Energy Efficient & Eco Friendly Solutions
- ✓ Hygienic Design & International Standards
- ✓ Timely Project Delivery
- ✓ Experienced Technical Team
- ✓ Customer Satisfaction Guaranteed



### PLANT CAPACITY OPTIONS

- 5 KG / BATCH  
Laboratory Scale Unit
- 25 KG / BATCH  
Pilot Scale Unit
- 50 – 100 KG / BATCH  
Small Scale Production
- 200 – 500 KG / BATCH  
Commercial Production
- 500 KG & ABOVE  
Industrial Scale Solutions



### KEY FEATURES

- LOW TEMPERATURE OPERATION
- HIGH VACUUM TECHNOLOGY
- GENTLE DRYING PROCESS
- HIGH PRODUCT QUALITY
- EXTENDED SHELF LIFE
- RETAIN NUTRITION, COLOR, FLAVOR & TEXTURE

### IDEAL FOR

- FOOD PROCESSORS
- PHARMA COMPANIES
- HEALTH & NUTRITION BRANDS
- RESEARCH & LABORATORIES
- HERBAL & AYURVEDIC INDUSTRY
- DEFENCE & SPACE APPLICATIONS



### LET'S BUILD YOUR FREEZE DRYING PLANT TOGETHER!

From Concept to Commissioning and Beyond.

- 9836408742
- adiabatic.sales@gmail.com
- adiabaticcoolcraftpvtltd.com
- 124B, Lenin Sarani, Kolkata - 700013



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ON WHATSAPP





# ADIABATIC COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

# AIR & WATER COOLED CHILLER COMPLETE PROJECT

## COMPLETE TURNKEY SOLUTIONS

High efficiency. Maximum reliability. Built for performance. We deliver end-to-end Air Cooled & Water Cooled Chiller Projects with advanced technology, superior quality and unmatched after sales support.



ENERGY EFFICIENT



PREMIUM QUALITY



RELIABLE PERFORMANCE



LOWER OPERATING COST



LONGER SERVICE LIFE

## AIR COOLED CHILLER



## WATER COOLED CHILLER



### OUR CHILLER SOLUTIONS



#### AIR COOLED CHILLER

- Capacity: 10 TR – 500 TR
- Designed for tough ambient conditions
- Low maintenance
- Easy installation



#### WATER COOLED CHILLER

- Capacity: 10 TR – 5000 TR
- High efficiency & silent operation
- Compact design
- Suitable for indoor installation



#### SCREW CHILLER

- High performance screw compressor
- Precise temperature control
- Robust & durable
- Energy saving



#### CENTRIFUGAL CHILLER

- Capacity: 100 TR – 5000 TR
- Ideal for large scale applications
- High COP & reliability
- Advanced control system



#### MODULAR CHILLER

- Flexible & scalable design
- Redundancy for uninterrupted operation
- Easy maintenance
- Space saving

### WIDE RANGE OF APPLICATIONS



PLASTIC & RUBBER INDUSTRY



PHARMACEUTICAL INDUSTRY



FOOD & BEVERAGE INDUSTRY



HVAC SYSTEMS



CHEMICAL INDUSTRY



HOTELS & HOSPITALITY



DATA CENTERS

### OUR TURNKEY SERVICES

- ✓ Project Consultation & Feasibility Study
- ✓ System Design & Engineering
- ✓ Equipment Supply
- ✓ Installation & Commissioning
- ✓ Testing & Validation
- ✓ Operation & Maintenance
- ✓ AMC & After Sales Support



### WHY CHOOSE US?

- ✓ Advanced Technology
- ✓ High Energy Efficiency
- ✓ Customized Solutions
- ✓ Quality Assured Products
- ✓ On-Time Project Delivery
- ✓ Expert Engineering Team
- ✓ 24/7 After Sales Support



### PLANT CAPACITY OPTIONS



10 TR – 50 TR  
Small Scale Applications



50 TR – 200 TR  
Medium Scale Applications



200 TR – 1000 TR  
Large Scale Applications



1000 TR – 5000 TR  
Industrial Applications



### KEY FEATURES



HIGH COP & ENERGY SAVING



PRECISE TEMP. CONTROL



LOW NOISE & VIBRATION



SMART MICROPROCESSOR CONTROL



ENVIRONMENT FRIENDLY



SAFE & RELIABLE OPERATION



EASY INSTALLATION & MAINTENANCE

LET'S BUILD YOUR  
NEXT CHILLER PROJECT  
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COMPLETE  
TURNKEY  
PROJECT

ON TIME, EVERY TIME



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INNOVATIVE SOLUTIONS



SUSTAINABLE FUTURE



BUILT FOR PERFORMANCE



TRUSTED BY GENERATIONS



**ADIABATIC**  
COOL CRAFT PVT. LTD.

ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS



# SOLAR COLD ROOM COMPLETE PROJECT

## COMPLETE TURNKEY SOLUTIONS

Sustainable. Reliable. Cost-Effective.  
Solar Cold Room Solutions for a Greener Tomorrow.  
From design to commissioning –  
we deliver end-to-end solar powered  
cold storage projects.



100% SOLAR  
POWERED



ENERGY  
SAVING



LOWER  
OPERATING COST



RELIABLE &  
DURABLE



ECO FRIENDLY  
SOLUTION

### OUR TURNKEY PROJECT PROCESS



**1. CONSULTATION**  
Understanding your  
requirement



**2. DESIGN &  
ENGINEERING**  
Customized solar cold  
room design



**3. SOLAR SYSTEM  
INSTALLATION**  
High efficiency solar  
power setup



**4. COLD ROOM  
MANUFACTURING**  
Premium quality panels  
& components



**5. INSTALLATION &  
INTEGRATION**  
Seamless installation  
& system integration



**6. TESTING &  
COMMISSIONING**  
Rigorous testing  
& handover



**7. AFTER SALES  
SUPPORT**  
24/7 support &  
maintenance

### WIDE RANGE OF APPLICATIONS



FRUITS &  
VEGETABLES



DAIRY  
PRODUCTS



MEAT, FISH &  
SEAFOOD



FLOWERS &  
NURSERY



PHARMA &  
HEALTHCARE



AGRI & SEED  
STORAGE



FOOD & BEVERAGE  
INDUSTRY

### OUR SOLAR COLD ROOM FEATURES

- ☑ Solar Powered – Zero or Low Grid Dependency
- ☑ High Performance Insulated Panels
- ☑ Energy Efficient Refrigeration System
- ☑ Precise Temperature & Humidity Control
- ☑ Smart Monitoring & Temperature Alerts
- ☑ Long Shelf Life & Better Product Quality
- ☑ Environment Friendly & Sustainable



### WHY CHOOSE US?

- ☑ Advanced Technology
- ☑ Customized Solutions
- ☑ High Quality Materials
- ☑ Expert Engineering Team
- ☑ Timely Delivery
- ☑ Cost Effective Solutions
- ☑ Excellent After Sales Support



### PLANT CAPACITY OPTIONS



5 MT – 25 MT  
Small Scale Units



25 MT – 100 MT  
Medium Scale Units



100 MT – 500 MT  
Large Scale Units



500 MT & ABOVE  
Industrial Scale Solutions



### KEY HIGHLIGHTS



SOLAR  
POWERED



ENERGY  
EFFICIENT



LOWER CARBON  
FOOTPRINT



SMART  
MONITORING



RELIABLE  
PERFORMANCE



LONG TERM  
SAVINGS

### IDEAL FOR



FARMERS &  
FPOs



COOPERATIVES



PROCESSORS &  
EXPORTERS



RETAIL CHAINS



GOVT. PROJECTS &  
NGOs

LET'S BUILD YOUR  
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SUSTAINABLE FUTURE



BUILT FOR PERFORMANCE



TRUSTED BY GENERATIONS



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ENGINEERING | REFRIGERATION | POST HARVEST SOLUTIONS

# LARGE COLD STORAGE PROJECT

COMPLETE TURNKEY SOLUTIONS

End-to-end Large Cold Storage Solutions designed for maximum capacity, superior preservation and energy efficiency. From concept to commissioning – we build your reliability.



PREMIUM INSULATION



ENERGY EFFICIENT



RELIABLE PERFORMANCE



LONG TERM DURABILITY



LOWER OPERATING COST

## OUR TURNKEY PROCESS



01

CONSULTATION



02

DESIGN & ENGINEERING



03

MANUFACTURING



04

INSTALLATION



05

TESTING & COMMISSIONING



06

HANDOVER & AFTER SALES SUPPORT

## WIDE RANGE OF APPLICATIONS



FRUITS & VEGETABLES



MEAT, FISH & SEAFOOD



DAIRY PRODUCTS



PHARMA & HEALTHCARE



AGRI & SEED STORAGE



FOOD & BEVERAGE INDUSTRY

## COLD STORAGE WITH RACKING SYSTEM



SPACE OPTIMIZATION



HIGH STORAGE CAPACITY



BETTER AIR CIRCULATION



EASY INVENTORY MANAGEMENT



FORKLIFT FRIENDLY



ENHANCED SAFETY

## OUR COLD STORAGE FEATURES

- ✓ High Performance Insulated Panels
- ✓ Precise Temperature & Humidity Control
- ✓ Advanced Refrigeration Technology
- ✓ Energy Efficient & Cost Effective
- ✓ Large Storage Capacity
- ✓ Food Safety & Quality Assurance
- ✓ 24/7 Monitoring & Smart Control
- ✓ Hygienic & Environment Friendly



## WHY CHOOSE US?

- ✓ Complete Turnkey Solutions
- ✓ Customized Design & Engineering
- ✓ High Quality Equipment
- ✓ Experienced Project Team
- ✓ Timely Delivery
- ✓ Excellent After Sales Service



## CAPACITY OPTIONS

500 MT – 1000 MT  
Small Scale Unit

5000 MT – 20000 MT  
Large Scale Unit

1000 MT – 5000 MT  
Medium Scale Unit

20000 MT & ABOVE  
Mega Scale Solution



## KEY HIGHLIGHTS

OPTIMAL CAPACITY UTILIZATION

CONSISTENT TEMPERATURE

ENERGY SAVINGS

SMART MONITORING

FASTER ROI

SAFE & SECURE STORAGE

SUSTAINABLE SOLUTION

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INNOVATIVE SOLUTIONS



SUSTAINABLE FUTURE



BUILT FOR PERFORMANCE



TRUSTED BY GENERATIONS

END-TO-END TURNKEY SOLUTIONS

# FROZEN COLD STORAGE & BLAST FREEZER PROJECTS

Built for Performance. Designed for Perfection.

Advanced refrigeration technology delivering ultra-low temperatures, energy efficiency & food safety for a wide range of industries.



**FROZEN COLD STORAGE**  
-25°C TO -40°C

**BLAST FREEZER**  
-35°C TO -45°C

- PREMIUM INSULATION**
- ENERGY EFFICIENT**
- PRECISE TEMP. CONTROL**
- RAPID FREEZING**
- FOOD SAFETY COMPLIANT**
- RELIABLE & DURABLE**

### OUR TURNKEY PROCESS



### WIDE RANGE OF APPLICATIONS



### FROZEN COLD STORAGE

- ✔ Temperature Range: -25°C to -40°C
- ✔ High Density PU Insulated Panels
- ✔ Energy Efficient Refrigeration Systems
- ✔ Precise Temperature & Humidity Control
- ✔ Customizable Storage Solutions
- ✔ Hygienic, Safe & Durable Construction
- ✔ 24/7 Monitoring & Alarm Systems



### BLAST FREEZER

- ✔ Temperature Range: -25°C to -45°C
- ✔ Rapid Freezing to Lock Freshness
- ✔ High Air Velocity for Uniform Freezing
- ✔ Stainless Steel Interior Construction
- ✔ User Friendly Control & Monitoring
- ✔ Reduced Freezing Time
- ✔ Improves Shelf Life & Quality



### WHY CHOOSE US?

- ✔ End-to-End Turnkey Solutions
- ✔ Experienced Engineering Team
- ✔ Advanced Technology & Equipment
- ✔ Customized & Scalable Solutions
- ✔ On-Time Delivery & Installation
- ✔ Excellent After Sales Support
- ✔ Energy Efficient & Cost Effective



### CAPACITY OPTIONS

- 50 MT – 200 MT**  
Small Scale Units
- 200 MT – 1000 MT**  
Medium Scale Units
- 1000 MT – 5000 MT**  
Large Scale Units
- 5000 MT & ABOVE**  
Mega Scale Solutions



### OUR INFRASTRUCTURE & EQUIPMENT



**LET'S BUILD YOUR NEXT BIG PROJECT TOGETHER!**

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# PREMIUM REFRIGERATION EQUIPMENTS

ENGINEERED TO PERFORM. BUILT TO LAST.

High performance refrigeration equipments for industrial cold storage, food processing, pharmaceuticals, and beyond.

- ENERGY EFFICIENT
- RELIABLE PERFORMANCE
- ADVANCED TECHNOLOGY
- LONG SERVICE LIFE
- GLOBAL QUALITY STANDARDS



## OUR PREMIUM EQUIPMENT RANGE

### IQF / TUNNEL FREEZER

- Quick freezing to lock freshness & nutrients
- Uniform air flow for consistent product quality
- Stainless steel construction
- Energy efficient operation

### SPIRAL FREEZER

- Compact design saves space
- Continuous freezing for high output
- Low energy consumption
- Ideal for a wide range of products

### COMPRESSOR RACK

- High efficiency & reliability
- Low vibration & noise
- Easy maintenance & service access
- Custom built for your capacity

### EVAPORATIVE CONDENSER

- Efficient heat rejection
- Saves water & energy
- Low operating cost
- Environment friendly solution

### INDOOR UNIT (AIR COOLER)

- High heat transfer efficiency
- Low noise operation
- Corrosion resistant materials
- Long lasting performance

### VALVES

- Wide range of refrigeration valves
- Precise flow & pressure control
- Durable & leakage proof
- Suitable for all refrigerants

### DRYERS (FILTER DRIER)

- Removes moisture & contaminants
- Protects system components
- Improves efficiency & reliability
- Solid core & desiccant type

### EXPANSION DEVICES

- Precise refrigeration control
- Stable & reliable performance
- Compatible with all major systems
- Thermostatic & Electronic options

### OIL SEPARATORS

- Efficient oil removal
- Improves system efficiency
- Reduces maintenance cost
- High pressure resistance

### RECEIVERS

- Stores refrigerant safely
- Multiple capacity options
- Durable & tested design
- ASME certified

### SOLENOID VALVES

- Automatic operation
- Fast & reliable response
- Energy efficient
- Wide voltage range

### CONTROL PANEL

- Intelligent control & protection
- User friendly interface
- Custom built solutions
- Reduces downtime

## COMPLETE REFRIGERATION SOLUTIONS UNDER ONE ROOF

- CUSTOM ENGINEERING SOLUTIONS
- ENERGY SAVING TECHNOLOGIES
- GLOBAL QUALITY STANDARDS
- EXPERT TECHNICAL SUPPORT
- AFTER SALES SERVICE

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TRUSTED BY INDUSTRIES ACROSS THE GLOBE

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# OUR SERVICES

COMPLETE SOLUTIONS.  
LASTING PERFORMANCE.

From expert consultancy to reliable after-sales support, we deliver end-to-end refrigeration solutions that keep your business running at peak efficiency.



EXPERTISE  
YOU CAN TRUST



QUALITY  
YOU DESERVE



UPTIME  
YOU RELY ON



SUPPORT  
YOU CAN COUNT ON

## OUR SERVICES



### AMC SERVICES



- Preventive maintenance
- Regular inspection & check-ups
- Performance optimization
- Reduced breakdown & downtime
- 24/7 support & rapid response



### FABRICATION JOBS



- Custom fabrication as per requirement
- SS, MS, Aluminium fabrication
- High-quality welding & finishing
- Precision & durability assured
- On-time delivery



### PROJECT CONSULTANCY



- Requirement analysis
- System design & planning
- Cost estimation & budgeting
- Energy-efficient solutions
- End-to-end project guidance



### SPARE PARTS SUPPLY



- Genuine & high-quality parts
- Wide range of refrigeration spares
- Reliable & long-lasting performance
- Quick availability
- Best value for money



### INSTALLATION & COMMISSIONING



- Professional installation
- System testing & validation
- Smooth commissioning
- Performance & safety assurance
- Timely project handover



### AFTER SALES SUPPORT



- 24/7 customer support
- Troubleshooting & issue resolution
- On-site assistance
- Service whenever you need
- Your satisfaction, our priority

## WHY CHOOSE US?



EXPERIENCED  
PROFESSIONALS



QUALITY  
ASSURED



TIMELY  
DELIVERY



COST EFFECTIVE  
SOLUTIONS



TRUSTED BY  
INDUSTRIES



DEDICATED  
SUPPORT

ONE PARTNER. END-TO-END SOLUTIONS. COMPLETE PEACE OF MIND.

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