Crystal
Cold Chain Solution Company

CRYSTAL GROUP

QUATRE AGRO ENTERPRISES PRIVATE LIMITED

India's Pioneer in End-to-End Cold Chain Solutions

| Est. 1962 | Strategic Briefing 2026

Delivering Reliable Cold Chain Solutions Across Industries



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INDIA'S END-TO-END COLD CHAIN PARTNER

One Partner. Every Cold Chain Need.

We build it, store it, move it and process it, so your cold chain never breaks at a hand-off.

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01

BUILD

Designed around your business.

- Built-to-Suit (BTS)
- EPC turnkey facilities
- Build & Lease
- Build + 3PL

90 days brief to live



02

STORE

Your product, in safe hands. Across India.

- Cold storage & 3PL
- Reefer containers
- Superstores & super freezers
- Dry containers & ISO tanks

24,000 pallets · 9 facilities



03

MOVE

Cold chain that moves as fast as your business.

- Reefer trucks, 10–40 ft
- Primary & secondary
- Last-mile delivery
- Live GPS & temperature

130 reefer vehicles



04

PROCESS

From farm to shelf, freshness intact.

- Blast freezer containers
- Blast freezing services
- Quick freezing & chilling
- Controlled thawing

−40°C blast freezing

Backed across every line by • **Crystal Smart** 24/7 IoT monitoring • **AMC / CMC** field service • **OPEX** lease or **CAPEX** purchase

TRUSTED BY INDIA'S MOST DEMANDING BRANDS · 400+ clients served

amazon · Flipkart · Reliance RETAIL · blinkit India's Last Minute App · bigbasket A TATA Enterprise · Licious · Amul · ITC Limited · Jubilant FoodWorks · LUPIN PHARMACEUTICALS, INC. · Dr.Reddy's

Crystal Group · Est. 1962 · Mumbai & Kolkata

"Your Product, We Secure."

The Architecture, Layer by Layer

Seven operating layers — from blast processing through to lifecycle service support

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01
Processing & Blast Model

Blast infrastructure
Quick freezing and chilling down to −40°C
Controlled thawing
Controlled pull-down and defrost cycles
Target applications
Seafood exports, meat & poultry, IQF fruit and veg

02
Primary Logistics

Marine-grade fleet
ISO containers, 32 ft and 40 ft, multi-temperature
Liquid bulk transport
ISO tanks — food grade, chemicals, petrochemicals
Dry intermodal cargo
High-cube and GP containers, non-perishables

03
Warehousing & 3PL Hubs

3PL storage operations
Multi-temp chambers −18°C to +25°C
BTS — built-to-suit
Asset-light build and lease for rapid scaling
EPC infrastructure
Turnkey build and handover, live in 90 days

04
Portable Cold Storage

Plug & play fleet
Reefers and super freezers, ultra-low to −70°C
High-bay modular units
Superstores — 2 to 15 expandable bays
Specialised fleet
Dual-machinery reefers, redundant backup

05
Last Mile & Urban Distribution

Secondary fleet
Small reefer vehicles, 8 / 10 / 20 ft, city logistics
Micro-fulfilment
Hub-to-dark-store replenishment
Final delivery
Dark store to end-consumer delivery

06
Customisation & Engineering

Redundancy systems
Dual units, dual defrost and 2.5 kW heaters
Thermal integrity
Anti-rooms, with or without cooling units
Fleet modifications
Flat-floor mods (SWL-rated), data loggers

07
Lifecycle Management

Maintenance contracts
AMC (annual) and CMC (comprehensive)
Asset support
OEM genuine spares, 24/7 field service
Smart telematics
Crystal Smart IoT — temperature, GPS, alerts

Seven layers.
One partner.
One contract.

We engineer, manufacture, deploy, monitor and maintain every node in the chain — so the cold chain never breaks at a hand-off.

"Your Product, We Secure."

Implant Storage Solutions

Plug-and-play cold storage deployed on your site in hours — no civil works, no permits, no capital lock-up

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MODULE SIZE

Per module, before bays are added

MODULE	EXT LENGTH	EXT HEIGHT	INT LENGTH
20 FT	6.06 m	2.60 m	5.44 m
40 FT	12.19 m	2.90 m	11.26 m

WHY CLIENTS CHOOSE IT

Independent bays
Each bay runs its own set point

−25°C to +25°C
Frozen, chilled and ambient side by side

One unit, lower draw
Cheaper than running separate reefers

Wide door openings
Fast loading; customisable interiors

THE IMPLANT RANGE

OPEX or CAPEX

Reefer Container



10 · 20 · 40 ft | −25°C to +25°C
Dairy · FMCG
Fresh Produce

Blast Freezer



10 · 20 · 40 ft | Up to −40°C
Seafood · Meat
Bakery · IQF

Super Freezer



10 · 20 ft | Up to −70°C
Vaccines · Biologics
Clinical Research

Dual Machine Reefer



20 · 40 ft | Two full units
Pharma · Seafood
Long ocean legs

Dry Container



GP · HC · OT · HT · FR
Manufacturing · Retail
E-commerce

ISO Tank



T11 · T14 · T20/T22 · T50
Chemicals · Petrochem
Food Grade Liquids

−70°C to +25°C | **10 · 20 · 40 FT** | **2 – 15 Bays** | **380–460V, 3-Ph**

OPEX | **CAPEX**

BTS, Cold Rooms & Cold Storage

Custom cold rooms, multi-temperature warehouse hubs and built-to-suit facilities — designed, built and handed over tested



COLD ROOM SPECIFICATION

Standard or customised

PARAMETER	VALUE
Temperature range	−25°C to +25°C — standard builds at +4°C chilled and −18°C frozen
Room size	100 to 1,000 sq. ft. — off-the-shelf sizes or built to your dimensions
Panel insulation	Conductivity 0.22 W/m²K · Density 40–42 ± 2 kg/m³
Refrigeration	Integrated or remote, energy-efficient and state-of-the-art
Installation	Crystal technicians handle initial setup through to rigorous testing

BUILT-TO-SUIT ENGAGEMENT MODELS

Live in 90 days

- **BT — Build & Transfer**
- **BOT — Build, Operate & Transfer**
- **Build + 3PL**
- **Build & Lease**
- **Cold Room Solutions**

WAREHOUSE NETWORK

Pallet positions · chambers · range

City	Facility Type	Capacity / Size
Kolkata	Multi-client facility	12,000 pallet capacity
	Facility 2	1,10,000 sq. ft.
Ahmedabad	Multi-client facility	5,000 pallet capacity
	Facility 1	30,000 sq. ft.
	Facility 2	75,000 sq. ft.
Mumbai	Facility	1,20,000 sq. ft.
Noida	Facility	75,000 sq. ft.
Pune	Facility	30,000 sq. ft.
Bhubaneswar	Multi-client facility	7,000 pallet capacity

NETWORK TOTAL	9 Facilities	24,000 Pallets	4,40,000 Sq. Ft.

COLD ROOMNETWORK

Site · floor area · machines

Site	Floor Area
Kolkata	37,566 sq. ft.
Ludhiana	10,796 sq. ft.
Bhubaneswar	9,883 sq. ft.
Bhopal	3,928 sq. ft.
Raipur	3,800 sq. ft.

−25°C to +25°C · **100 – 1,000 sq. ft.** · **26,000+ pallet positions** · **Live in 90 days** · **OPEX** · **CAPEX**

Transportation

Anintegratedlogisticsserviceprovider—refrigerated transport, warehousing and distribution across India



OUR SERVICES

SERVICE	WHAT IT COVERS
Pan-India transportation	Nationwide refrigerated movement — primary and secondary
Cold logistics	Storage and distribution handled as one chain
Customised solutions	Contract logistics, distribution services and innovation-driven cold chain design
Fleet & team	130 refrigerated vehicles, 10 ft (1 MT) to 40 ft (28 MT), run by experienced logistics professionals
Value added services	GPS tracking, live temperature, 24x7 control tower — faster transit that protects shelf life
Segments we serve	Ice cream, dairy, QSR, frozen & processed foods, pharmaceuticals, fruits & vegetables, confectionery & bakery, FMCG, quick commerce

WHY CLIENTS CHOOSE US

Delivering trust, end to end

COMMITMENT	WHAT IT MEANS
Comprehensive cold logistics	Any temperature range, handled with care
Wide range of vehicles	10 ft to 40 ft, tailored to cargo size and need
End-to-end pick & drop	Reliable, timely, delivered safely
Real-time monitoring	Live temperature and GPS, full transparency
Expert handling	Trained team, precision and safety
Product safety & care	Strict cold chain protocol the whole journey

130 VEHICLES | **10 – 40 FT | 1 – 28 MT** | **Pan-India** | **Live temp + GPS 24x7**

OPEX | **CAPEX**

Lifecycle Service & Digital Assurance

AMC / CMC maintenance and Crystal Smart IoT — the layer that keeps the chain unbroken between hand-offs

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AMC & CMC Preventive and corrective maintenance, around the clock



WHAT AN AMC COVERS

Nine services in one contract

- Preventive maintenance
- Repairs & replacements
- Genuine spare parts
- 24/7 emergency support
- Compliance & safety
- Energy optimisation
- Flexible service plans
- Dedicated manager
- Written service reporting

SPARE PARTS & OEM COVERAGE

Carrier
Original and refurbished parts at competitive rates

Thermo King
Original and refurbished parts, certified repairs

CRYSTAL SMART 24/7 IoT monitoring and real-time tracking



WHAT IT WATCHES

Containers, rooms, warehouses, fleet

Temperature
Live reading against set point, with deviation alerts

Location
GPS position and progress along the route

Alarms
Excursion and equipment faults raised as they happen

COMPLIANCE IT SUPPORTS

WHO-GDP · GxP · 21 CFR Part 11

Data monitoring
Continuous capture, not spot readings at handover

Data integrity
Records cannot be altered after the fact

Audit trails
Every reading traceable to a time and a user

Electronic signatures
Approvals carry legal weight without paper

Access control
Only authorised users can view or change settings

System validation
The system itself is qualified, not just the data

24 / 7 field support · **OEM genuine spares** · **Live GPS + temperature** · **Audit-ready records**

OPEX · CAPEX

Certified Globally. Trusted at Scale.

Eightregulatedsectors·Fortune500andglobalpharmaceuticalaccounts·accredited to international standards

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OUR ESTEEMED CLIENTS

Pharma & life sciences · Dairy · Meat, seafood & export · Chemicals · FMCG · Q-commerce · Logistics· Infrastructure

PHARMA & LIFE SCIENCES

Dr.Reddy's
Cipla
HETERO
LAURUS Labs
LUPIN
Divi's
Biocon
Biological E
AUROBINDO
glenmark
Sai
MSN
eugia
MARKSANS
Aj
Aptar
CURIA
GENNOVA
JUBILIANT GENERICS
OneSource
Aspiro

DAIRY

Amul
MOTHER DAIRY
HATSUN
Akshayakalpa Organic
NATURALS
ITC Limited
Prabhat DAIRY
Nandini
BARODA DAIRY
Kanhaiyya
MILK MANTRA
Mahanand
BDF
Country Delight
ALPHA
Shuddh

MEAT, SEAFOOD & EXPORT

Licious
FAIR EXPORTS
Godrej Tyson FOODS
StarAgro Marine Exporters
Verka
Allana
NATIONAL
Venky's
Fresh2Home SEAFOOD
PONNUS

CHEMICALS & PETROCHEMICALS

HUNTSMAN
deccan Fine Chemicals
PI Industries Ltd.
NAVIN FLUORINE International Limited
CHEMPLAST SANMAR
asianpaints
LAXMI ORGANIC INDUSTRIES LTD
ION EXCHANGE
MARS
INDIAN EMULSIFIERS
Easton energy
Reliance Industries Limited

FMCG & FOOD

epigamia
PARLE
ITC Limited
Reliance Consumer Products Limited
JUBILANT FOODWORKS
FERRERO
AAK
Mapro
AGRANA
NEWLY WEDS FOODS
Jain Farm Fresh Foods
Motherhood FOOD
more

Q-COMMERCE & RETAIL

blinkit
zepto
SWIGGY
zomato Hyperpure
Reliance RETAIL
Reliance RETAIL VENTURES LIMITED
Instakart by Flipkart
qwik SUPPLY CHAIN
DMart
bigbasket A TATA Enterprise

LOGISTICS & SUPPLY CHAIN

DHL SUPPLY CHAIN
DSV
UPS Supply Chain Solutions
DP WORLD
RHENUS LOGISTICS
AGILITY
OM LOGISTICS LTD.
Softbox
WFS A SATS COMPANY
GMR CARGO

INFRASTRUCTURE & ENERGY

SIEMENS Ingenuity for life
LARSEN & TOUBRO
TATA PROJECTS
Bharat Petroleum
adani Energy Solutions
MICHELIN
kirloskar Corrocoat
Godrej APPLIANCES
MRPL Mangalore Refinery and Petrochemicals Limited
POWERGRID

CERTIFICATIONS & ACCREDITATIONS

Bureau Veritas · MPEDA · EIC· ISO 9001:2015 · FSSAI · ABS · NCCD · Govt. of West Bengal

BUREAU VERITAS
ISO 9001:2015
fssai
ABS
NCCD

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Thank You

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CRYSTAL GROUP · Cold Chain Solution Company · Established 1962

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