



Coldkat
REFRIGERATION

**COLDKAT REFRIGERATION,
Bangalore, India**

**Highly Customer-Centric, Customer-Oriented Organisation
Providing High-End Refrigeration Cold Chain Solutions To Our
Customers**

**We Offer Turnkey Solutions For Refrigeration Industry Which involves
Innovative Design, World-Class Products, Adopting Best Practices in
Installation Standards, Spares & Aftersales Support**

**We Comply With Safety Standards, Ensuring Safety Of Our Team &
Ours & Our Customers Assets; & Ethics our core value.**

**Our Infrastructure Is Being Built Focussing on Innovative Design,
Integration, Manufacturing, Installation & Aftermarket services PAN-
INDIA**

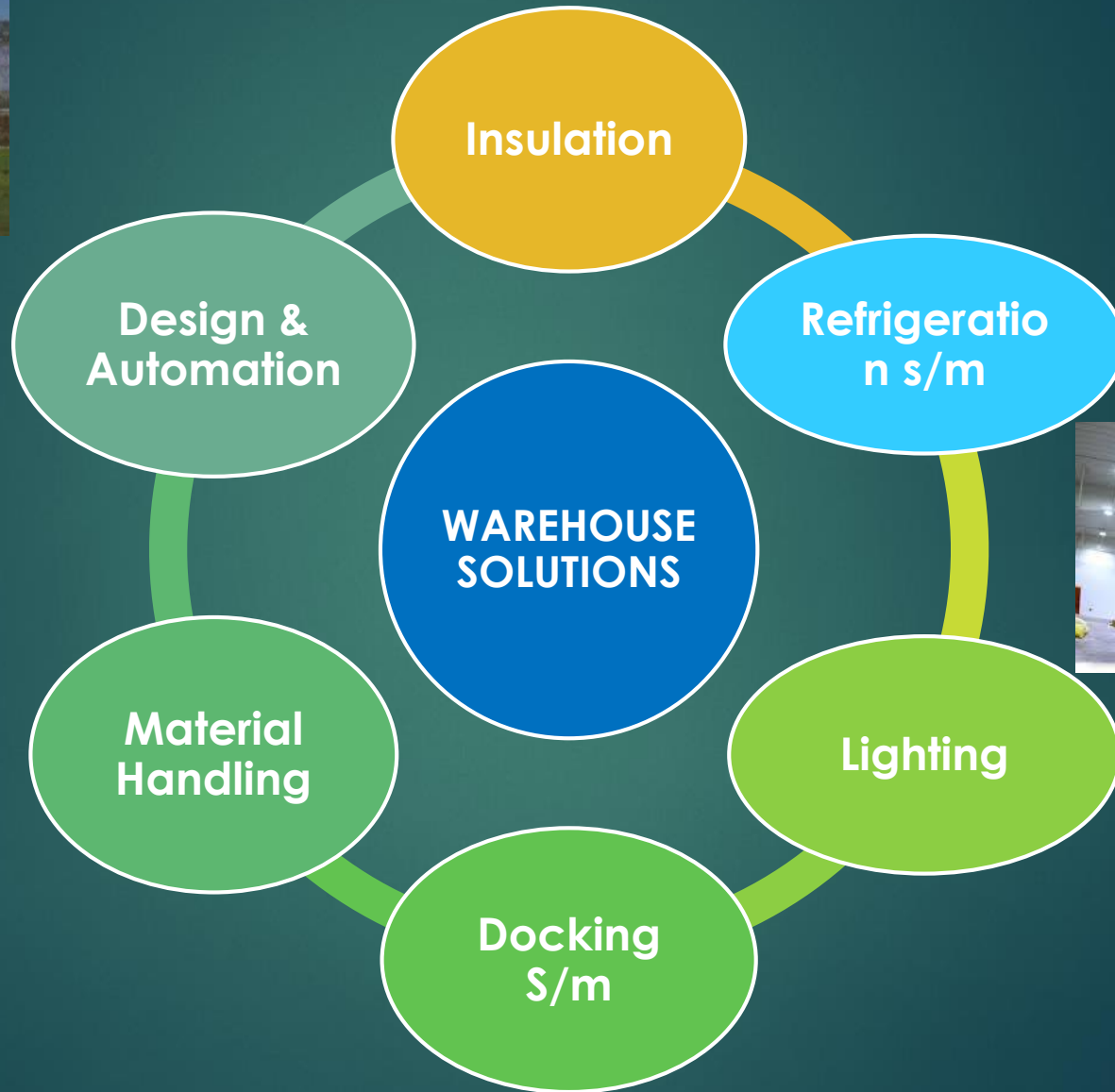
HONESTY

**HIGHEST
STANDARDS**

PROGRESSIVENESS

CUSTOMER FOCUSED

Refrigeration Solutions



Project Management



Our Mission

▶ **Become one of the Top 5 Customer-Preferred Cold Chain Refrigeration Solutions Company in India, Employing people Who Take Pride In Delivering World-Class Quality Projects with Innovative Designs & Technology; adhering to Ethical Business Practices & Safe-Guarding The Environment Around Us; Thereby Exceeding Customer's & Stakeholder's Expectations.**

What we believe in..

- ▶ **Customer focus**
- ▶ **Leadership**
- ▶ **Involvement of people**
- ▶ **Process approach**
- ▶ **Continual improvement**
- ▶ **Fact based decision-making**
- ▶ **Mutually beneficial supplier relationships**
- ▶ **Creating Value**

Leadership

Sanjeev KL

23 Years Experience in Refrigeration;
Handling High-End Refrigeration Products &
Projects



Professional Experience

Blue Star Ltd – 08 Yrs

Ingersoll Rand / Thermoking – 05 Yrs

Carrier Refrigeration (United Technologies) – 07 Yrs

Own Business – 03 Yrs

Member : ISHRAE

Our Associated Brands



Compressor Racks

- ▶ BITZER/EMERSON
COPELAND
Compressors
- ▶ 1-Stage, 2-Stage &
Screw Options
- ▶ Air-Cooled & Water-
Cooled
- ▶ Fully Integrated
Control Systems
- ▶ Auto/Manual
Operation
- ▶ High COP, ENERGY
Saving Designs



Air-Cooled Condensers

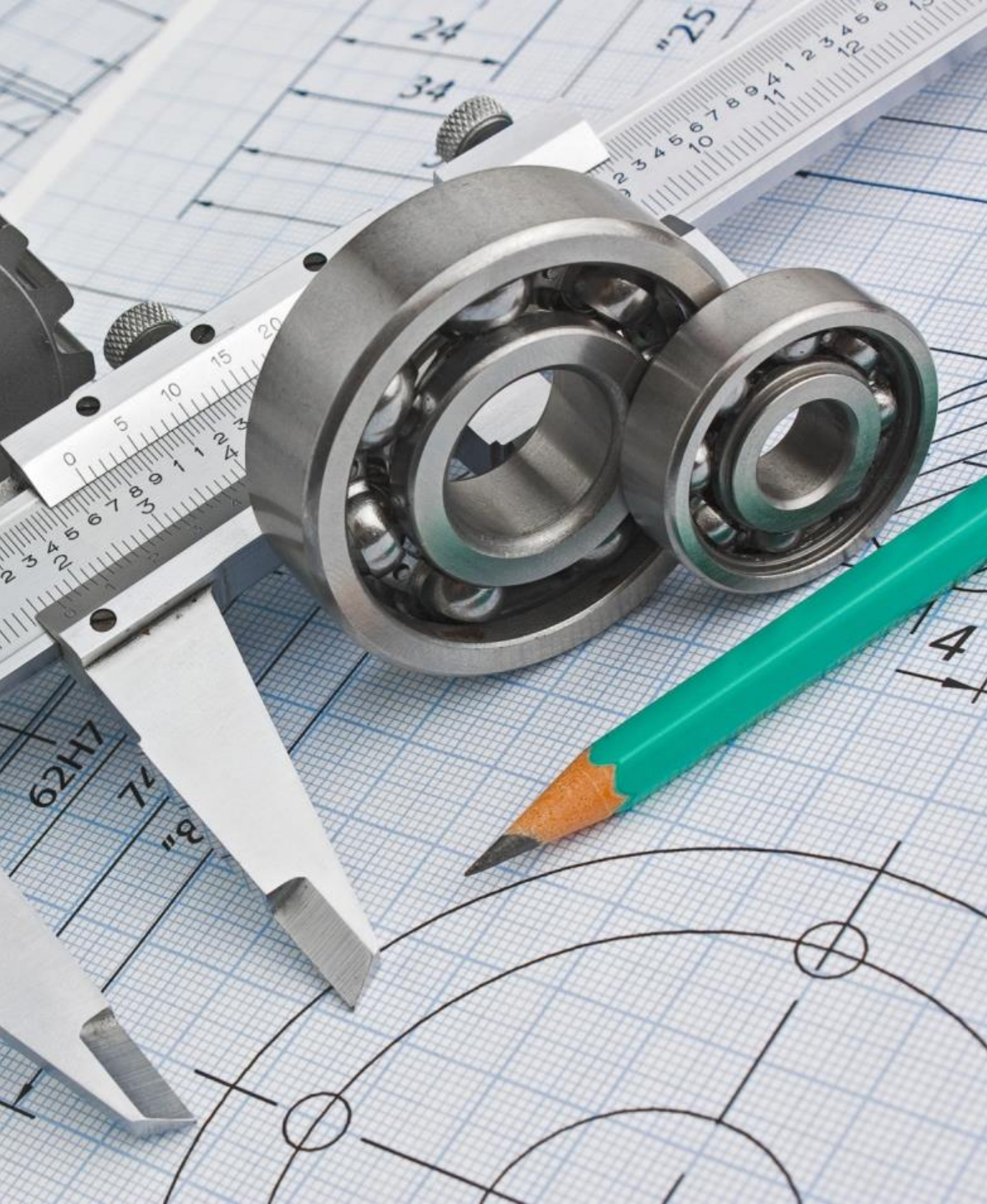
- ▶ BLUE-FIN Condenser FINS
- ▶ Inner-Grooved Copper Tubes
- ▶ Sub-cooling Options
- ▶ Energy Efficient Fans
(Zeil-Abegg, EBM, Favilley)
- ▶ 40KW to 600KW Capacity
- ▶ Horizontal & Vertical Discharge options



Air-Cooled Condensing units

- ▶ High Ambient Design
- ▶ 10KW TO 45KW
- ▶ Inner-grooved Copper Tubes
- ▶ Blue Fin Condensers
- ▶ BITZER / EMERSON Compressors
- ▶ Space Saving Design
- ▶ Compressor Health-check module
- ▶ VFD Options





Design & Estimations

Heat Loads & Designs

- ▶ Peak Load at High Ambient
- ▶ Heat Load Safety – Min 10%
- ▶ Compressor Safe Operating Range
- ▶ Condenser Excess Cap. – Min 30%
- ▶ Evaporator Air-Flow /Air-Throw
- ▶ Piping Design – Optimum Pressure Drop Calculations
- ▶ Compressor Health-check module
- ▶ VFD Options

Equipment Selection & Makes

COMPRESSOR RACKS



- ▶ Compressors – BITZER/Copeland, Semi-Hermetic, Reciprocating
- ▶ Operating Range – (-)45 C to 10 Deg C
- ▶ Design Running Hours – 18-20 Hours per Day
- ▶ Controls – Complete Safety Features
- ▶ Voltage Spike Protection, Single Phasing Preventers
- ▶ DUAL OPERATION - Auto & Manual Mode
- ▶ Suction Accumulator Vessel & Receivers STD.
- ▶ Oil Management System, Oil Reservoirs, Safety
- ▶ HP/LP Switches & Gauges
- ▶ NRVs & Vibration Absorbers for each Compressor
- ▶ SubCoolers STD for Capacity & COP Improvement
- ▶ Heavy Gauge Copper Tubes used in the Rack Piping
- ▶ Fault Indication Lamps

Equipment Selection & Makes

EVAPORATORS



- ▶ Evaporators – GUNTNER/THERMOFIN etc
- ▶ FIN SPACING : FREEZER – 4FPI, CHILLER – 6FPI
- ▶ Defrost : Coil - Hot Gas, Tray - Electric Heaters
- ▶ Design TD – FREEZER – 5-6 K, CHILLER – 6-8 K
- ▶ Air Throw – Length + Height
- ▶ Aluminum Fins
- ▶ Inner-Grooved Copper Tubes



Equipment Selection & Makes

AIR-COOLED CONDENSERS



Condensers – GUNTNER, THERMOFIN etc

Condensing : 52 Deg C

Excess Capacity Safety : 30% Minimum

Subcooling in Condenser

Inner-Grooved Copper Tubes

Horizontal / Vertical Air-Throw options

Zeil –Abegg / EBM/Eqvt Fans



Installation Standards



Copper Pipes & Fittings	14-16 Guage thickness
K-TYPE	ASTM B280



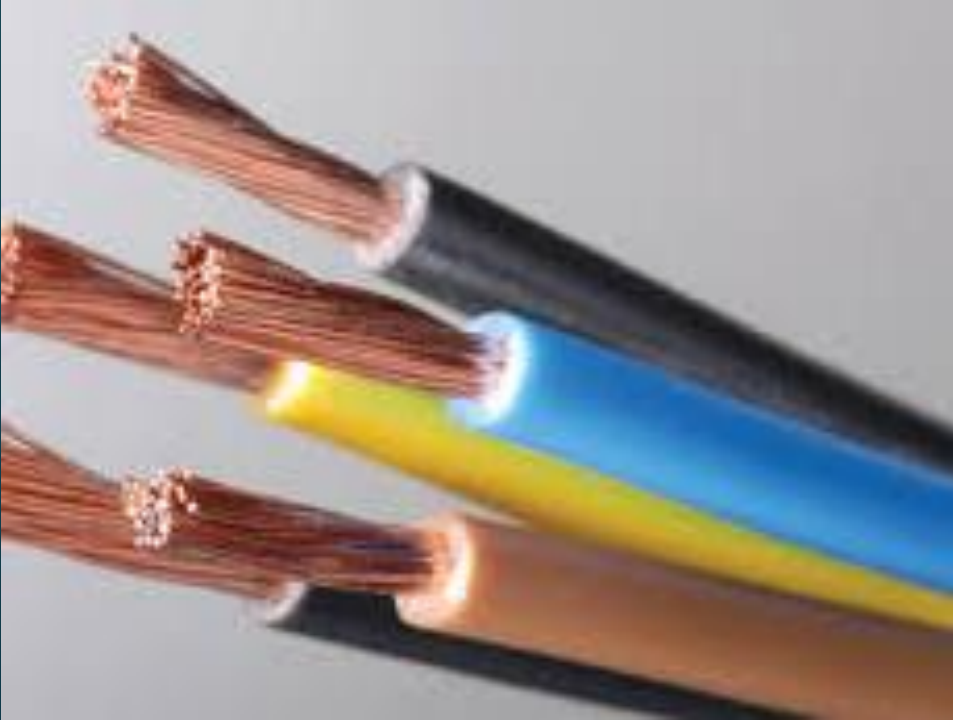
Brazing – Nitrogen Flushed Brazing

- Flux
- High Quality Brazing Rods
- Silver Rods for Multi-Metal Brazing



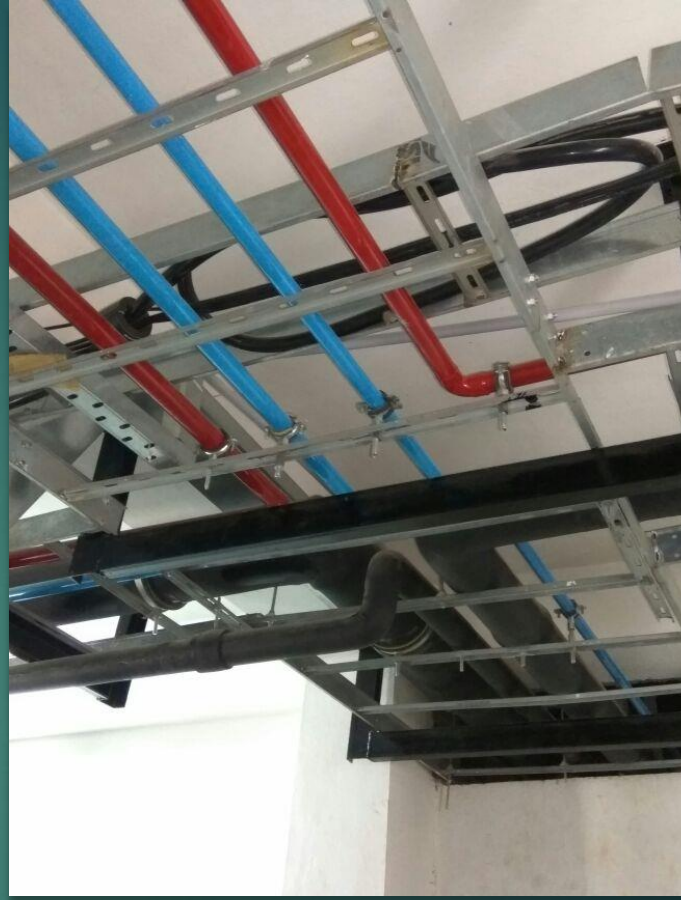
Pipe Insulation

Freezer Pipes : Min 25mm
Chiller Lines : Min 19mm



Electrical Cables & Wires

ISI Quality
Armoured Cables
High Quality Wires

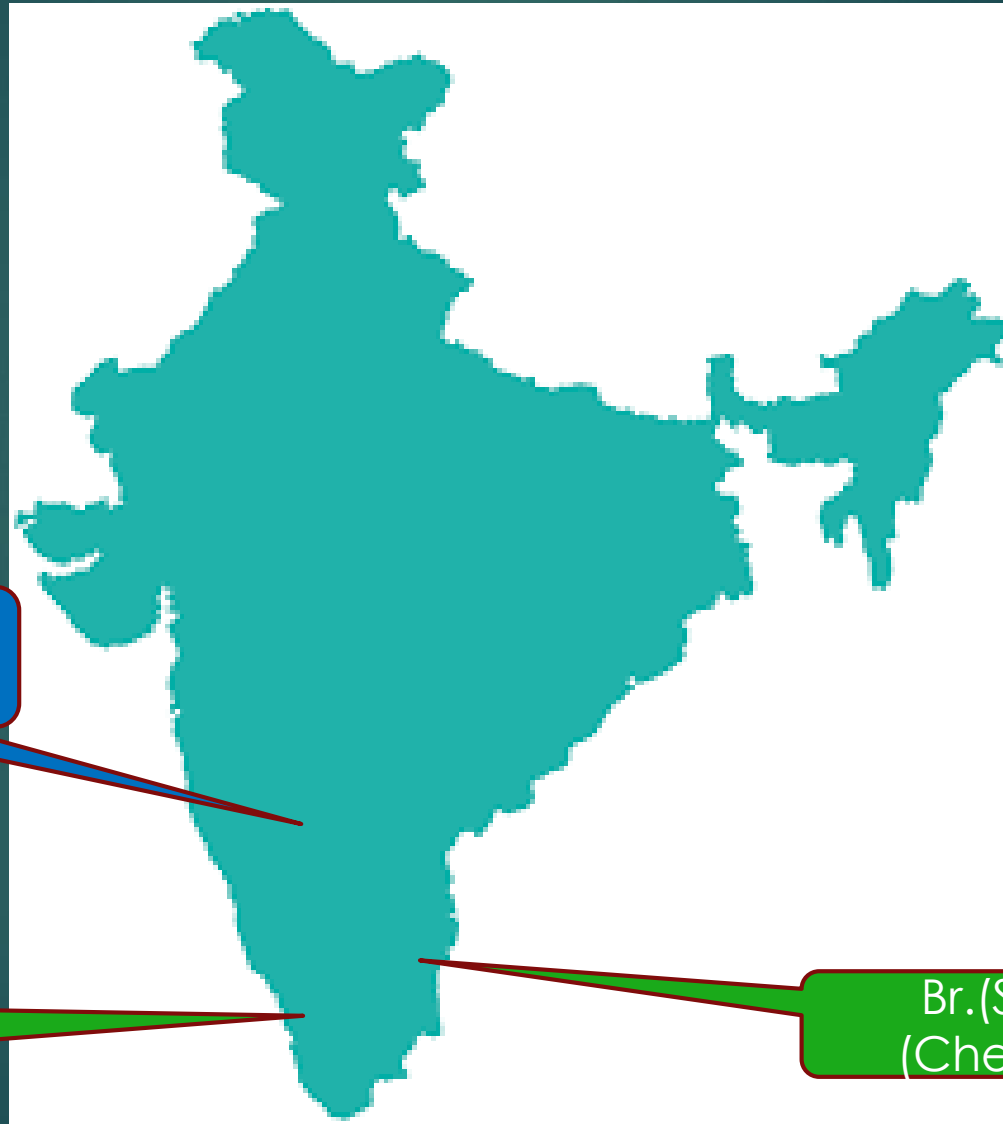


Piping & Supports

Other Features offered

- ▶ **2 Year Warranty** for the Entire System supplied & Installed by US.
- ▶ 3rd Year Warranty @ 3% of the Order Value; paid in Advance
- ▶ CAMC Contracts
- ▶ We assign 1 Plant Operator at our cost on 1-Shift basis during the Warranty Period for Plant Monitoring & Preventive Maintenance
- ▶ Following **REPORTS** Shall be generated during the warranty period
 - Monthly Report on Temperature, Power Consumption etc
 - Quarterly Report of Overall Plant Operation/Maintenance
 - Yearly Reports of Temperature, Power, UP/Down times, Health of the Plant & Machinery etc
 - Preventive Maintenance Reports

Our Network



Head Office
(Bangalore)

Br.(Serv)
(Kochi)

Br.(Serv)
(Chennai)

CUSTOMER FIRST



After-Sales Support



Some of Our esteemed Customers

NAME	LOCATION
Chennai Leisure	Chennai
Triviron Pharma (Denmark group)	Chennai
Frozen Fruits	Mettuppalayam, Theni
Your Door Steps	Bangalore
Prasad Seeds & Frozen Store	Hyderabad
MFC Chicken	Thirupati
Snowman Logistics	Ahmedabad, Vizag, Chennai
Mumbai Leisure	Mumbai
Hyson Logistics	Nellore
PR International	Kolkatta
Dept of Fisheries	Kenya, Africa
Priyanka Enterprises	Nellore
Sankethi Agro	Bangalore
IISC	Bangalore
Snow Bee cold store	Kochi
Heritage Foods	Hyd, Tirupathi