



BRIEF OF THE PROJECT

PUN/ECS/0948/22-23-Refrigeration R02
30th September 2022

To,
Shree Agro Food Producers Co Ltd
Dahiwadi
Dist Satara

Mr Shashank

Sub :- Proposal for PUF Panels and Accessories with Doors

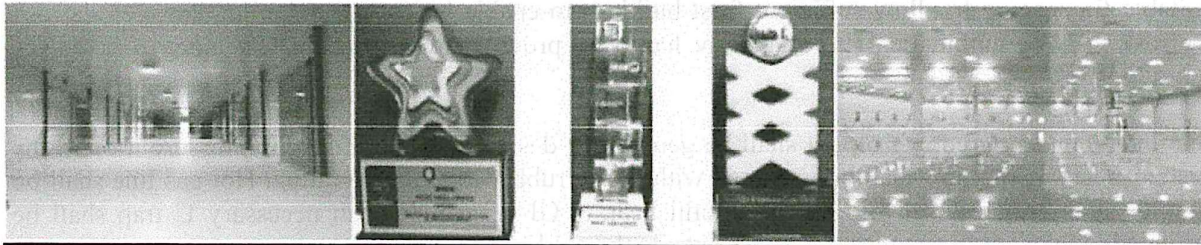
We have great pleasure in proposing our offer regarding your requirement. The same is enumerated below for your kind perusal.
For your easy evaluation we have segregated the proposal as below;

1. Company Profile
2. Bill of quantity & price schedule
3. Commercial Terms and conditions.
4. Scope of Work – Warranty Service
5. Exclusions

In case of any clarifications, please feel free to get in touch with us.
We trust our offer is in line with your requirement and look forward for your valued order.
Thanking and assuring you of our best attention and service at all times.

Yours Faithfully
For RINAC INDIA LIMITED

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BRIEF OF THE PROJECT

In this proposal, we have considered supply and installation of refrigeration systems for the below mentioned equipment/room:-

- **Grapes Precooling Unit 1 & 2 - Room external dimensions 6.1 x 9 x 4 m with room temperature of 0°C.**
- **Cold Room for Grapes - Room external dimensions 12.9 x 9 x 3 m with room temperature of 0°C.**
- **Fresh Fruit Processing Area for Grapes - Room external dimensions 25 x 14.5 x 3 m, 12 x 12 x 3 m with room temperature of (+)20°C.**
- **Arils Processing Area - Room external dimensions 14.1 x 27 x 3 m with room temperature of (+)15°C.**
- **Juice Pulp Processing Area - Room external dimensions 34 x 18.3 x 3 m, 14.5 x 9.3 x 3 m with room temperature of 24°C.**

We have considered supply of Freon-based split type refrigeration systems the room. All civil & structural works including finished floor, secondary roofing etc. shall be in the scope of customer / other agencies.

General Specifications

The refrigeration system shall be Freon based split type of suitable capacity with Air Cooled Condensing Units located outside the room and the Evaporator Units located inside the room. The condensing unit shall house suitable capacity Semi-Hermetic compressor for the negative rooms and Hermetic for Positive Rooms, condenser coil and fans. Weather proof electrical starter panel for the full unit shall be mounted inside the condensing unit.

The evaporator shall be with GI casing & condenser cabin shall be constructed using GI casing. All the refrigerant tubes shall be with copper construction & Al fins. The evaporator shall be provided with suitable fin spacing to allow sufficient frost build up to enable longer operation hrs between defrost. Defrost shall be automatic. The drain tray has been provided with additional heaters to avoid ice buildup.

The interconnecting copper piping shall be generously designed to minimize the pressure drop in the system. The suction line shall be insulated with Nitryl rubber to avoid sweating. Hot gas line shall be suitably hot insulated to avoid loss of useful heat. A GI drain pipe with necessary U trap shall be provided to take out the condensate water outside the cold rooms.

The compressor on/off based on the load shall be controlled by a micro processor based digital temperature controller which shall also control the defrost cycle, on/off of fans, fault indications etc, thereby controlling the entire refrigeration system.

BILL OF QUANTITY & PRICE SCHEDULE

SI No	Part No / Description	Qty	UOM	Supply & Inst. [INR]	Value
A Grapes Precooling Unit 1&2					
1	Air-Cooled Condensing Unit having 66 kW capacity, R404a, with Hermetic Compressor, for 0 deg C Room Temperature, suitable for High Ambient Conditions	2	Nos	12,20,000	24,40,000
2	Evaporator Unit having 66 kW capacity, which is suitable for positive room with GI Casing	2	Nos	8,64,750	17,29,500
3	Interconnecting Piping & Wiring between Outdoor and Indoor Units for a maximum distance of 12 RMT	2	Lot	3,03,500	6,07,000
4	Hooter and Switch	2	Nos	873	1,745
B Cold Room For Grapes					
1	Air-Cooled Condensing Unit having 12 kW capacity, R407C, with Hermetic Compressor, for 0 deg C Room Temperature, suitable for High Ambient Conditions	1	Nos	1,23,425	1,23,425
2	Evaporator Unit having 12 kW capacity, which is suitable for positive room with GI Casing	1	Nos	98,250	98,250
3	Interconnecting Piping & Wiring between Outdoor and Indoor Units for a maximum distance of 12 RMT	1	Nos	66,420	66,420
4	Hooter and Switch	1	No	873	873
C Fresh Fruit Processing Area					
1	Air-Cooled Condensing Unit having 15 kW capacity, R407C, with Hermetic Compressor, for (+)20 deg C Room Temperature, suitable for High Ambient Conditions	2	Nos	1,20,500	2,41,000
2	Evaporator Unit having 15 kW capacity, which is suitable for positive temperature with GI Casing	2	Nos	1,01,175	2,02,350
3	Interconnecting Piping & Wiring between Outdoor and Indoor Units for a maximum distance of 12 RMT	2	Lot	60,480	1,20,960
D Arils Processing Area					
1	Air-Cooled Condensing Unit having 16 kW capacity, R407C, with Hermetic Compressor, for (+)15 deg C Room Temperature, suitable for High Ambient Conditions	2	Nos	1,20,500	2,41,000
2	Evaporator Unit having 16 kW capacity, which is suitable for positive temperature with GI Casing	2	Nos	1,05,000	2,10,000
3	Interconnecting Piping & Wiring between Outdoor and Indoor Units for a maximum distance of 12 RMT	2	Lot	60,480	1,20,960
E Juice Pulp Processing Area					
1	Air-Cooled Condensing Unit having 15 kW capacity, R407C, with Hermetic Compressor, for (+)24 deg C Room Temperature, suitable for High Ambient Conditions	2	Nos	1,18,250	2,36,500
2	Evaporator Unit having 15 kW capacity, which is suitable for positive temperature with GI Casing	2	Nos	87,000	1,74,000
3	Interconnecting Piping & Wiring between Outdoor and Indoor Units for a maximum distance of 12 RMT	2	Lot	60,480	1,20,960
TOTAL					
1	Supply Value Basic Ex-Works [INR]			67,34,943	
2	Installation Value Basic [INR]			Included	

