

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Department of Earth Sciences

Enquiry No: ES/RS/2015-2016/10

Date: 11.06.2015

Subject: Quotation for supply and fixing of Deep Freezer with PP/PP and Chiller with PP/PP as mentioned below.

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us by June 19, 2015 in the form of a hard copy to the address mentioned below. If you have any question please call Dr. Rajiv Sinha at 0512-2597317, email: rsinha@iitk.ac.in

The prospective suppliers are required to send quotation in two parts in sealed envelopes, as "Technical Bid" and "Financial Bid". The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. **The two separate and sealed envelopes should be clearly marked appropriately as "Technical Bid" and "Financial Bid". Kindly write the inquiry no on the top of envelop.**

Terms and Conditions:-

1. Maximum education discount, if any should be offered
2. Validity of quotation should be at least for 60 days
3. Prices should be on CIF and FOB separately (if imported)
4. Prices should include the installation and training cost
5. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection).
6. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.

Technical specifications of Deep Freezer and Chiller with PP/PP:

Design of Freezer with PP/PP

Proposed Walk in Freezer size : 93" (W) x 70" (D) x 109" (H) – Freezer Room

The dimensions are external

The Dimensions are in Inches

S.N.	S.N.	Design Parameters	
A	1	Insulation Type for Walk In Freezer	For Walls and Ceiling: 100 mm prefab. CYCLOPANTANE panels inside PPGI & outside PPGI , as per the temp requirement. – Freezer For Floor: Kota , PCC over PUF Slab(Supply & Civil work of Kota , PCC is in client's scope)
	2	Product to be stored	Ice
	3	Ambient temperature	+ 45 Deg. C
	4	Product Load	250 Kg daily
	5	Entering product temp.	-15 deg C
	6	Pull down time	24 Hrs.
	7	Final Refer Room Temp.	- 20 Deg C (+-2 Deg C)

S.N.	S.N.	Specifications	
A	1	Cooling unit for Walk In Freezer	Blue Star make Evaporator with matching Condensing Unit
	2	Condensing Unit Capacity	5790 B Btu/Hr x One No.
	3	Evaporating Unit Dimensions Weight Air Flow	Single Phase 1245L/375D/450H mm 25 Kg 1600 CFM
	4	Condensing Unit Dimensions Weight Air Flow	Three Phase 800L/600D/442H mm 62Kg 2800 (m3/h)
	3	Refrigerant	R-404a
B		Door :---	
	1	Door size	Clear door opening of 34" x 78" , 1 No. each
	2	Door Type	Heavy duty hinges. (Right hand Swing Type) Inside PP & outside PP finish. With the provision for locking the door from outside.
	3	Temperature indicator	Digital Temperature indicator
	4	<u>Special Features of Door</u>	Fiberglass reinforced plastic door perimeter, jamb & threshold.
			Posi seal Closure: For Firm closing of door.
			Hinges: Oblique hinges with pivot for reducing wear of the bottom of the door.
			Safety Release Knob: For prevention of entrapment inside the Freezer/Cooler room.

			Sweep Gasket: For air tight seal along the bottom of the door.
		Special Features of Evaporator	SS - 304 Casing to avoid rusting.

Design of Chiller with PP/PP

Proposed Walk in Chiller size : 93" (W) x 70" (D) x 107" (H) – Chiller Room
(One wall of 116" is common in both the chambers)

The dimensions are external

The Dimensions are in inches

S.N.	S.N.	Design Parameters	
A	1	Insulation Type for Walk in COLD ROOM	For Walls and Ceiling: 60 mm prefab. CYCLOPANTANE panels inside PCGI & outside PPGI, as per the temp requirement.
		Floor	Kota over Puf Slab (Supply & Civil Work Of Kota Is In Customer's Scope)
	2	Product to be stored	Soil
	3	Ambient temperature	+ 45 Deg. C
	4	Entering product temp.	25 deg C
	5	Final Refer Room Temp.	+4 (+/-2) Deg C

Solution Offered: ---

S.N.	S.N.	Specifications	
A	1	Cooling unit for Walk in COLD ROOM	Blue Star Make Condensing & Evaporating Units
	2	Evaporating Unit (a) Air Flow (b) Air throw	Single Phase 2720 cmh, 1600 cfm 12 feet
	3	Condensing Unit (a) Compressor type	Single Phase Recip Hermatic
	4	Condensing Unit Capacity	2.93 KW
	5	<u>Power Consumption</u>	1.75.KW each
B		Door :---	
	1	Door size	Clear door opening of 34" x 78" , 1 No. 60 mm Thk.
	2	Door Type	Heavy duty hinges. (Right hand Swing Type) Inside PCGI & outside PCGI finish. With the provision for locking the door from outside.
	3	Temperature indicator	Digital Temperature indicator
	4	<u>Special Features of Door</u>	Fiberglass reinforced plastic door perimeter, jamb & threshold.
			Posi seal Closure: For Firm closing of door.
			Hinges: Oblique hinges with pivot for reducing wear of the bottom of the door.
			Safety Release Knob: For prevention of entrapment inside the Freezer/Cooler room.
		Sweep Gasket: For air tight seal along the bottom of the door.	

	5	Special Features of Evaporator	SS Casing to avoid rusting.
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