

THE ICHHAMATI CO-OPERATIVE MILK PRODUCERS UNION LTD.

HATIPUKUR ROAD, BARASAT-700124, NORTH 24 PARGANAS

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Ref no: - IMVL: Tender: IDDP: 385

Date: 11.09.13

TENDER

The Ichhamati Co-operative Milk Producers' Union Ltd. is a Anand Pattern District level co-operative Society which is functioning under leadership of District Magistrate, North 24 Parganas. This Milk Union is inviting sealed quotation for purchase and installation of 1 no 'Walking Cold Store (10,000 lt. Capacity)' for milk chilling. For details specification/ description of IBT Unit is as under:-

ANNEXTURE - 1		BASIS OF DESIGN
Sl.No.	Description	Cold Storage for 10,000Lts/kg
1)	Refrigerant	R -404A
2)	Nominal Room Size in [External]	20 x 12 x 8.5 (H)
3)	Capacity	10000 Ltrs/Kgs Lassi, Butter, Cream etc [1000 crte]
4)	Room Temperature	0 Deg C ^o To -5 Deg C ^o
5)	Ambient Temperature	42 Deg C ^o
6)	Product	Lassi, Butter, Cream, Milk etc.
7)	Total Products Capacity in Crates	1000 Crates
8)	Daily Product Load	10000 Lts.
9)	Product incoming Temp.	+5 Deg C ^o To +6 Deg C ^o
10)	Pull Down Time	14-18 Hours.
11)	Wall and Ceiling Insulation	60 mm thk PUF Panel
12)	Floor Insulation	60 mm thk PUF Slab Insulation With tow layer vapor barrier [1.5 inch PCC with 25 mm Kota/mandana Stone Finish]
13)	Door Size [Hinged Type]	78" x 34" x 60mm Thik.
14)	No. of Machines / Room	Two - 1 working + 1 partial standby
15)	No. of Rooms	One
16)	System Type	Air Cooled
17)	Required Refrigeration Capacity	24,100 BTUH
18)	Offered Refrigeration Capacity	15,100 BTUH X 2 SETS
19)	Inside Light Fittings	2 Sets Vapor Proof [CFL]

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ANNEXTURE - II

SCOPE OF SUPPLY

Sl.No.	Description	Quantity
1)	BLUE STAR make Air Cooled Unit Refrigerant - R - 404A Model : RUAM - 01512DP + ZX030E	2 Sets
2)	Design and Supply of BLUE STAR make COLD STORAGE of as per dimension Having following specifications:- walls and ceiling 60mm PUF Panel with 24SWG Prepainted Sheet finish inside & outside. With Camlock arrangement	1 Set
3)	BLUE STAR make 60mm PUF Door Fully Flush-in type with Self Closing Posi-seal closure, Door Heater, Digital Thermometer, Sweep gasket, Full imported hard-wares. Built-in magnetic neoprene gasket, In-built human safety lever inside	1 Set
4)	BLUE STAR make 60mm thk PUF Slab insulation with two layer vapor barrier for Flooring	1 Set
5)	BLUE STAR make 60mm U Profile for Wall Panel standing	Lot
6)	BLUE STAR make Hatch Channel for Ceiling Panel suspension	Lot
7)	BLUE STAR approved Vapor Proof [CFL]	2 Sets
8)	BLUE STAR approved PVC Strip Curtain	1 Set
9)	Copper Refrigeration Piping and Fittings with necessary supports	2 Sets
10)	Suction line insulation with Nitrile Rubber	2 Sets
11)	DANFOSS / Equivalent make Refrigeration Controls comprising of the following. Thermostatic Expansion Valves Solenoid Valves Sight Glasses Filter Driers Ball Valves	2 Sets
12)	First Charge of R - 404A Gas and Compressor Oil	2 Sets
13)	Complete Supports for Equipments	2 Sets
14)	PVC Drain Pipes to drain out the Condensate from the Evaporator outlet to the nearest drain Pit	2 Sets

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ANNEXTURE – III


PANEL & DOOR SPECIFICATION

PANEL

1)	Manufacturer	BLUE STAR Ltd
2)	Insulation	CFC free Foamed in-place POLY URETHENE FROM (PUF)
3)	Co-efficient of heat Transfer	0.366 W/M-C
4)	Density	40 + /- 2 kg/m3
5)	K-value of Insulation	<0.02 kcal/m2 hr. C
6)	Thermal conductivity	<0.02 kcal/m2 hr. C
7)	Compressive strength	1.3 kg/cm2 (min)
8)	Adhesion strength(PUF to steel)	150 PSI
9)	Closed Cell contents	95% (min)
10)	Fire resistance	Will not sustain fire in absence of source
11)	Water absorption	2% (max)
12)	Vapour permeability	Less than 2%
13)	Thickness of outer sheets	24 Gauge
14)	Material of outer sheets	Prepainted GI
15)	Amount of Zinc Coating	120 GSM or above
16)	Type of camlock for panel locking	Metallic
17)	Type of sealant	Gasket/silicone
18)	Ozone friendly R- 141 blown foam at 32- 36Kgs/Cubic Mtr.	Yes
19)	Structural Stability within 2% after 48 Hrs. of foaming	Yes
20)	Radiused will to impede bacterial growth	Yes
21)	Panel joints	With double vinyl gasket & metallic Cam Lock (Pre-fabricated with the panels to make leak proof joints). On floor, U-profile will be grouted for holding wall panels and ensuring anti-dampness

DOOR:-

1)	Manufacturer	BLUE STAR Ltd
2)	Size	78" x 34" x 60 mm- Thk
3)	Other Features	Hydraulic Door Closure Positive Cam Lift Hardware Vinyl gasket on all sides & with SS brackets at the bottom of door Safety Release Exit device for opening door from inside Door Heater
Authority of Milk Union reserves the right to accept or reject or regret the tender without reason there off.		
LAST OF OF SUBMISSION OF QUATATIONS- 17.09.13 AT 12 NOON. OPENING OF TENDER- 17.09.2013 AT 1 P.M		


Managing Director
Ichhamati Milk Union