बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित

BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT

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–ःखुली निविदा सूचना ः–

बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित सागर अंतर्गत दुग्ध शीत केन्द्र बिजावर व दुग्ध समिति रूरावन हेतु Refrigeration System with accessories suitable for 2000 liters capacity Bulk Milk Cooler-4 nos. क्रय किया जाना है। जिस हेतु मुख्य कार्यपालन अधिकारी बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित, नरसिंहपुर रोड सिरोंजा, सागर , मध्यप्रदेश पिन कोड 470004 संबोधन पर बंद लिफाफे में दिनॉक 29.07.2022 दोपहर 3 बजे तक आमंत्रित की जाती हैं, तत्पश्चात किसी भी प्रकार का प्रस्ताव स्वीकार नहीं किया जावेंगा। उक्त संबंध में अधिक जानकारी के लिये **दुग्ध महासंघ** की वेबसाइट **www.sanchidairy.com** एवं **www.sanchisagar.com** पर उपल्बध है।

मुख्य कार्यपालन अधिकारी
बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित
सागर

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1- Technical Specification of Refrigeration System:

- Suitable for 2KL Capacity Bulk Milk Cooler.
- The refrigeration system shall be designed to comply with ARI Standard 520: 2004 and to meet the requirements of milk collection system of ISO 5708, Class 2 II. The refrigeration system shall be of direct expansion type, with Freon-22 (R-22) or CFC free environmentally friendly refrigerant to cool the raw milk from reception temperature to 4^0C
- **Compressor:** -The refrigeration compressor shall be adequate enough to ensure that milk is cooled to 4^0C in the prescribed time limit and suitable to operate at 00C suction temperature and 60^0C condensing temperature (air-cooled condenser) assuming 46^0 C ambient temperature. The refrigeration compressor (s) shall be rotary/ reciprocating, hermetically sealed type essentially suitable for refrigeration application in hot & humid Indian climatic conditions. The motor of the compressor should have a thermistor temperature sensor embedded in windings for protection from excessive heating due to overloading or short-circuiting. Similarly, a protection against off cycle migration of refrigerant to the compressor is necessary in the refrigeration unit, preferably a self -regulating PTC crank case heater. The compressors selected should be energy efficient and consume least power to meet the cooling load requirements.
- **Condenser: -** The condenser shall be air cooled finned tube type having sufficient heat transfer area designed for extremely high ambient temperature given above. The air circulation fan of condenser shall preferably be induced draft type sucking cold air over the compressors and throwing hot air out of the premises/place of installation. The condensing temperature should not be less than 60^0 C considering operating ambient temperature of 46^0 C.
- **Receiver:** - For refrigeration circuit a suitable size liquid receiver mounted on the skid near compressor to assist system to store refrigerant during pump down cycle as well as in case of maintenance.
- **Thermostatic Expansion Valve:** - Suitable size and capacity Thermostatic expansion valve should be provided in the refrigeration circuit of the bulk milk cooler. The TX valve should be Maximum Operating Pressure type and of adequate capacity to feed optimum quantity of refrigerant to the milk cooling tank evaporator.
- Refrigerant pipe, fittings & controls All pipes, valves, fittings & controls shall comply with the latest relevant BIS code applicable. Isolation valves at suction & discharge sides of the compressors is provided for compressor isolation, during maintenance of the system. A suction pressure regulating

valve (KVL) shall be provided to restrict suction pressure within a reasonable limit for preventing tripping of compressor. Copper/SS tubing shall be routed in such a way that if any leakage occurred during operation can easily be detected and the defective portion can be repaired/ replaced without dismantling the whole system. All the pipes shall be clamped properly with fixed support. In case of double compressor system, pipe, fitting & control should be designed in such a way that both the compressors can run independently. The tubing shall be insulated wherever necessary.

2- Document Required (Mandatory)

- GST Certificate
- Firm Registration
- PAN Card

Note: - The tenderer was not submitted any one of the above documents are liable for rejection of offer.

3- Details required (mandatory)

S. No.	Description	Technical details
1	Make, model & size of compressor at operating conditions 0^0C evaporating & 60^0C Condensing temperature.	
2	Make, model and size of condenser	
3	Capacity of compressor (Kcal/hr) at evaporating & condensing temperatures.	
4	Capacity of Condenser & no. of fans.	
5	Receiver size & capacity	
6	Thermostatic expansion valve, make, size, capacity	
7	Overall dimensions and weight of the unit.	
8	Type of refrigerant.	

Note: - The tenderer was not submitted any one of the above details are liable for rejection of offer.

4- निविदाकार तकनीकी विवरण तथा वित्तीय पत्रक पृथक–पृथक लिफाफे में सील बंद कर उक्त पर उचित अंकन करते हुए दोंनों लिफाफों को एक अन्य लिफाफे में सील बंद कर निर्धारित दिनांक 29.07.2022 को दोपहर 03:00 बजे तक दुग्ध संघ कार्यालय में प्रस्तुत करें। निर्धारित तिथि तथा समय पश्चात् निविदा स्वीकार नहीं की जावेंगी।

5- रेफ्रीजरेशन सिस्टम सीधे दुग्ध शीत केन्द्र, बिजावर (जिला–छतरपुर) तथा दुग्ध समिति रूरावन (जिला–सागर) प्रदाय होना है।

6- दर प्रस्तुत करने का प्रारूप

S.N.	Items	Rate per Unit F.O.R Bijawar Chiiling centre & Ruravan DCS (GST Extra)
01	Refrigeration system with accessories Suitable for 2KL Bulk Milk Cooler	

Payment terms & condition: -

Within 30 days of delivery of items and acceptance by concern department