

West Bengal Co-operative Milk Producers' Federation Ltd

LB-2, Sector – III, Salt Lake, Kolkata – 700 106.

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NIT No : 10/5(BPP)/Tender/Equipment/02

Date :28.8.2018

Managing Director, West Bengal Cooperative Milk Producer' Federation Ltd is pleased to invite tender from eligible agencies/parties with proven experience on the field for execution of the below mentioned ONE item.

1. Supply, installation and commissioning of **Milk Weigher with Weighing Scales** including all pipeline and accessories in connection with complete Milk Reception work at Benmilk Training Centre Cattle Feed Plant Campus, Berhampore, Murshidabad, West Bengal.
2. Supply, installation and commissioning of **Raw Milk Chiller** including all pipeline and accessories in connection with complete Milk Reception work at Benmilk Training Centre Cattle Feed Plant Campus, Berhampore, Murshidabad, West Bengal

A) Item wise specification, technical details and scope of supply/work is given below :

SL NOS	ITEM WITH DESCRIPTION	QTY
3	MILK WEIGHING WITH WEIGHING SCALE	ONE
3.1	Capacity : 500 lit	
3.2	Function: The milk shall be dumped the weighing bowl after weighing milk in the milk weigher of 600 kg capacity.	
3.3	Product highlight: 1" LED display, Two load cell system, Overload stops for vertical and inclined loading, convenient accessibility to load cell locations, optimum balance between overall height and ground clearance for best usage.	
3.4	Specification : Capacity 500 kg x 200 g, balance Range : 2% of capacity, Tare 100% subtractive, Accuracy Class III, Bowl Volume : Max 600 lit	
3.5	Functions : Serial Interface : RS232,, Auto zero tracking.	
3.6	Construction: MS steel structure painted. SS 304 Milk bowl with valve and chain for milk discharge(customer scope)	
3.7	Display & Indication : 1" RED LED Weight Display, LED indication for Net, Balance	
3.8	Environment : Voltage 230 VAC, (-15% to +10%), frequency 50 Hz +/- 2%, operating temp range 0 deg C to 45 deg C, relative humidity up to 90% - non condensing	
3.9	shipping specifications : net weight (kg) 180 kg, Gross weight (kg) 330 kg, box size 46"x24"x14" - 1no	

SL NOS	ITEM WITH DESCRIPTION	QTY
8	<p style="text-align: center;">RAW MILK CHILLER</p> <p>8.1 Capacity : 5 KLPH, Function : The single section plate heat exchanger shall be used for chilling raw whole milk with chilled water. Design requirement: milk to be chilled from 35 deg C to 4 deg C by chilled water at 1.5 deg C from the refrigeration section. Design parameters: SS cladded frame with SS 316 plates with Clip-on gaskets. Milk feed temperature: 35 deg C, Milk discharge temperature: 4 deg C, Chilled water feed temp: 1.5 deg C, Maximum permissible chilled water flow rate : 3 times the milk flow, Max pressure drop in milk side : 1.0 Kg/sq.cm.</p> <p>8.2 Scope of supply :</p> <p>8.2.1 Plate pack : The plates will be made from stainless steel conforming to AISI316 and will be of sanitary design. All milk contact and exterior surfaces will be easily accessible or readily removable for cleaning and inspection. The Plate Pack should be of TETRA PACK /KELVION make.</p> <p>8.2.2 Gaskets : The sealing gaskets must ensure complete sealing and prevent any cross leakages between product and service fluid. Gaskets will be of sanitary type it will be continuously bonded to the heat transfer surface. The gasket material will be of Food grade rubber & will withstand a water sterilization temperature of 100 deg C and 2% caustic solution at 80 deg C. Gasket materials should be non-toxic. fat resistant, non absorbent and will have smooth surface.</p> <p>8.2.3 Supporting frame : The supporting frame of the plate will be of self-supporting design made of MS cladded with AISI304 SS sheet. It will have manually operated tightening device. The tightening device will be able to exert uniform pressure on all the parts of heat transfer plates. The frame and tightening device will prevent the plates from deflecting under pressure differential of minimum 4 Kg/cm.sq. The frame will be capable of accommodating the additional plates for the expanded capacity.</p> <p>8.2.4 Accessories : Inlet/Outlet : The lilet and outlet for chilled water and product will be provided with complete stainless steel SS unions. Thermowell : 3/4" BSP stainless steel pockets for thermometer on all the inlets and outlets. Each pocket will be complete with Stainless steel guard of at least 200 mm length for mounting glass thermometers. Ball feet: The frame will be provided with adjustable stainless steel ball feet with provision for height adjustment of 50 mm - 4 nos.</p>	ONE

B) The rate quoted should be inclusive of :

- a) All process pipes as required inclusive of SS pipes made of AISI 304 conforming to standards of ASTM A-312. Pipes should be outside polished and inside pickled as per dairy standards. Piping should be done in welding execution conforming to sanitary design. Thickness of pipe should be of 1.6 mm.

- b) Non-pneumatic process valves and fittings : Plug valves, non-return valve, butterfly valve, tee, bend, union and various other fittings to be included as required conforming to dairy standards. The valves unions and other fittings are to be made from precision casting/forging machined to closest tolerances on CNC machines as per SMS standards.
- c) SS supporting pipes clamps etc : SS supporting pipes of square cross section should be used to support the pipe lines both on horizontal and vertical plains. SS support clamps of IDMC design with nipples should be used for supporting the pipes and fittings. SS floor plates of standard design should be used for vertical support in the entire piping and should be executed at two or three levels.
- d) No welding joints with SS pipe line, bends, T joints, valve joints would be allowed. All tit bit masonry work including equipment foundations is within the purview of this tender and to be carried out by successful bidder as and where required. Trial run of the equipment and machineries will be for 15(fifteen) consecutive days in presence of officials of Milk Federation.

C) Bidders should submit rates inclusive of cost of material and labour and inclusive of inward/outward transportation and inclusive of packing and forwarding charges and any other such charges if any and inclusive of installation commissioning and trial run. GST and any other such applicable taxes and dutes are also to be mentioned separately. The distance of the site is 200 KM from Kolkata.

D) Last date of submission of tender along with credential certificate, technical details, organization/company profile, Tax clearance Certificates , PAN,Aadhar, TAN copy, authorization letter of manufacturer (as and where applicable) is 07.9.2018 by 5.00 PM.

Interested bidders may visit the site if felt necessary before submission of their bids. The site is at Benmilk Training Centre, Cattle Feed Plant Berhampore campus, P O : Cossimbazar Raj, Berhampore, Dist : Murshidabad, West Bengal. Prior to such visit the bidder should contact Production Engineer & Principal BTC (Ph no : 9733912116) for necessary consent.

E) Interested bidder should submit their bids in envelop duly Gala sealed and superscribing “NIT –Milk Weigher & Weighing Scale & Raw Milk Chiller” and “Not to be opened” at the top of the envelop and to be addressed to :

The Managing Director, West Bengal Cooperative Milk Producers’ Federation Ltd, LB-2, Sector III, Salt Lake, Kolkata – 700 106

F) The bid shall remain valid for (180) One Hundred and Eighty days from the date of opening the bid. Tender will be opened on 10.9.2018 for taking further necessary action by the Tender Committee. (date is tentative and may be changed if required)

G) Security Deposit : Bidder who would be awarded Work Order, has to deposit security money @ **2% of total Order Value** within SEVEN DAYS from date of receipt of Work Order. Failing this the said Order will be treated as invalid.

H) Payment Terms : **60% (Sixty percent)** of the Work Order Value will be released on delivery/supply of equipment at the specified site. **30% (Thirty percent)** will be released on successful Installation and Commissioning and Trial Run as detailed for the whole Order. Balance **10% (Ten percent)** would be released after ONE YEAR from date of commissioning, OR submission of Performance Bank Guarantee equivalent to 10% for one year.

The Managing Director, West Bengal Cooperative Milk Producers' Federation Ltd at its sole discretion may adopt or reject any or all the bids either in part or in full. West Bengal Cooperative Milk Producers' Federation Ltd at Kolkata also does not bind itself to accept the lowest bid. Canvassing in any form will be treated as a disqualification for the bidder.

Managing Director
The West Bengal Cooperative Milk
Producers' Federation Ltd