

West Bengal Cooperative Milk Producers' Federation Limited

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

**Phone No:** (033)23352844/60 **FAX:** (033) 23352896  
e-mail: [mail@benmilk.com](mailto:mail@benmilk.com) Website: [www.benmilk.com](http://www.benmilk.com)

## **SET OF TENDER DOCUMENTS (ON LINE)**

*Each set contains:*

- 1. NOTICE INVITING e-TENDER**
- 2. CHECK LIST IN PRESCRIBED FORMAT**
- 3. TERMS & CONDITIONS FOR SUBMISSION OF TENDER.**
- 4. APPLICATION FORMAT (Annexure - I)**
- 5. Specification of the item (BMCU 5 KLPD & 2 KLPD with all accessories excluding DG set)**

**LAST DATE FOR SUBMISSION OF TENDER (ON LINE): 18.05.2018**

*Managing Director*  
West Bengal Co-operative Milk  
Producers' Federation Ltd.

The rate must be inclusive of GST, transportation up to specified site including safe unloading at site (location of sites would be within around 200 KM from Kolkata), Packing & Forwarding, Installation with commissioning & Trial run of the whole supplied unit at site.

**West Bengal Cooperative Milk Producers' Federation Ltd.**  
**LB-2, Sector-III, Salt Lake City, Kolkata-700 098**

---

NIT NO. WBARD/WBMF/BMCU/NIT-05e/10/10(QA)/18-19

Date: 02.05.2018

## **NOTICE INVITING e-TENDER**

**For Supply, Installation & Commissioning of BMCU having capacity 2000 LPD & 5000 LPD along with all accessories (excluding supply of matching DG set)**

**(Submission of Bid through NIC e- tender portal --- <http://wbtenders.gov.in>)**

The Managing Director of West Bengal Co-operative Milk Producers' Federation Ltd., LB-2, Sector-III, Salt Lake City, Kolkata-700106 is going for e-tender for supply, Installation & Commissioning of BMCUs having capacity 2000/5000 LPD at different sites (within 200 KM from Kolkata on an average) under District Milk Unions in West Bengal. E-tenders are invited (on line) from the BMCU manufacturers namely De Laval/IDMC/Krishna Allied Industries/Jaya Industries/Aviva Equipments/ ISF Industries/SERAP or authorized agencies of the stated Seven BMCU manufacturers having previous experience of supply BMCUs to the Milk Federation / District Milk Unions. The manufacturers must have authorized service centre/ regional Office in the State of West Bengal (Contact person with contact number and address of the service centre must be given). *Description, Specification and Scope of supply of the equipment is as follows;-*

Detailed Technical Specification of BMCU having capacity 2000 LPD & 5000 LPD with accessories including Earthings (except DG set)

### **BULK MILK COOLING UNIT (BMCU)**

(CAPACITY: 2000/5000 Ltr per day )

#### **1. General Description**

Design, supply, installation, testing and commissioning of bulk milk cooling system (Direct Expansion Type) including all accessories and optional items given in the detailed scope of supply, on turnkey basis.

#### **1. Functional Requirement**

These systems are planned to be installed in Dairy Co-operative Society (DCS), which collects milk everyday in the morning and evening from member milk producers or chilling plant level. The milk so collected shall be stored in the proposed Bulk Milk Cooler and chilled from ambient temperature to 4°C. The stored milk shall be dispatched to dairy plant through insulated milk tanker.

## **2. Design Requirement**

### **a. Capacity**

The net capacity of the Bulk Milk Cooler shall be as mentioned above (2000 Ltr). However, the gross capacity in all the sizes shall be at least 10% higher than the rated capacity to avoid agitation or accidental spillage of milk.

### **b. Applicable manufacturing / design code**

#### **i. Bulk Milk cooler**

#### **ii. Tank**

The tank shall meet the requirements of ISO 5708 2A II (latest version). The tank shall be of an established and proven design (preferably horizontal cylindrical/elliptical type), in regular production and use and not a prototype unit.

#### **iii. Refrigeration System**

The refrigeration system shall be designed to comply with ISO/R 1662 and to meet the requirements of milk tanks (ISO 5708, Class 2A II) with not more than 3.0 hours cooling time from 35°C to 4°C for morning collection (50% of total volume) and not more than three hours for evening collection (balance 50% volume), with evaporation temp at 0°C and condensing temp 50°C. The refrigeration system shall be of direct expansion type, with Freon – 22 (R - 22) or CFC free environmental friendly refrigerant to cool the raw milk from receipt temperature to 4°C in the time frame described above. The evaporators of the refrigeration system shall form a part of the milk tank body as dimpled jacket in the bottom plate in case of rectangular tank or at least up to 1/3<sup>rd</sup> height of the cylindrical/elliptical tank. Preference will be given to the futuristic refrigerant R – 407 C.

#### **iv. Accessories**

Accessories viz. electrical & control cables, control panel, temperature sensor, electrical switch gears, refrigeration control valves and fittings etc. shall be of approved make only and shall meet the requirement of the latest relevant ISO/BIS code applicable.

## **3. Scope of the bidder**

The bidder scope starts from the receiving of milk in a dump tank/balance tank. The milk from the dump tank shall be pumped to bulk milk cooler (BMC). From BMC, milk shall be transferred to road milk tanker through the pump supplied along with BMC.

### **4.1 Supply**

The supply of BMC shall be complete with refrigeration section, agitator(s), lockable outlet valve, lockable inlet opening. A balance tank (Dump tank) with filter, SS piping, milk transfer pump, Hose pipe(Food grade-10mt), can tipping

bar, Complete cabling from mains to BMC, Change over switch(For DG set, however DG set shall be supplied by Milk Federation), control cabling from unit to panel and power conduit/cable tray.The tentative distance between balance tank to BMC, BMC to Mains power point and DG set may be considered as 2 mt, 7 mt, 15 mt tentatively. However, actual distance may vary as per site requirement, and all such variations need to be taken into account by the bidder.

## 4.2 Installation

The total job includes supply, installation, testing, commissioning, and training to the field personnel on turnkey basis and therefore minor civil works, providing and grouting supports are included in the scope. However, construction of building is excluded from the scope. Moreover, supplier has to demonstrate performance runs after satisfactory commissioning of the unit to the project authority.

## 4. Constructional Features

### a. Bulk Milk Cooling Tank

#### i. Material of Construction

Tank inner, intermediate dimpled jacket and top openable cover shall be fabricated from Stainless Steel AISI 304 material. All piping, fittings, filter body, lockable cover, agitator shaft and blade, adjustable ball feet, dip stick, outlet valve and blank flange shall also be from AISI 304. The filter screen shall either be from AISI 304 fine wire mesh or from food grade nylon. All the gaskets shall be from food grade nitrile or neoprene rubber materials. The skid on which refrigeration unit is mounted shall be of stainless steel.

**ii. Shape** The preferred shape of the tank shall be horizontal with an openable top cover for 2000 LPD & closed type horizontal with spray ball attachment for CIP for 5000 LPD.

**iii. Fittings** The tank shall be provided with no-foam inlet, outlet valve and blank with locking arrangement, inspection window/manhole with locking arrangement, agitator, top cover with locking arrangement. All SS fittings shall be of SMS standard. Top cover, lifting handle shall be an in built feature of the unit.

#### iv. Welding and Finishing

Inner, outer, intermediate dimpled jacket and nozzle connections shall be welded with TIG process only. Finishing of inner shell and all other product contact surface shall be polished up to minimum 150 grit finish. The outer surface either to be polished with 150 grit dull finish or circled finish.

#### v. Insulation

The insulation of the tank shall be done by injection, in situ, of high density (minimum 40 kg/cu. m.) CFC free (environment friendly) polyurethane foam without having any Imperfection and hygroscopicity. The efficiency of

insulation should be such that at maximum 50°C ambient temperature the rate of rise of the mean temperature of the milk, initially at about 4°C shall not exceed by one °C in four hour when the rated volume is allowed to stand undisturbed as per the requirement of ISO 5708 2A II.

#### **vi. S S Adjustable Ball Feet**

The tank shall be provided with AISI 304 adjustable ball feet having provision of 50mm height adjustment. Number of ball feet shall be minimum 6 – 8 for 2 KL capacity tank. 10mm thick, 150mm dia S S floor plates are to be provided below the tank legs for avoiding point loading on the floor.

**vii. Agitator** There should be arrangement for gentle agitation of milk so as not to have any disturbance in the fat distribution of the milk. In other words, the tank shall be equipped with agitator(s) capable of producing a uniform distribution of fat in the milk (30 rpm).

#### **viii. Dip Stick**

The tank shall be provided with SS calibrated dipstick to measure the quantity of milk inside the tank.

#### **ix. Cleaning In Place (CIP)**

For horizontal hemispherical/semi cylindrical top open able configuration, facilities for manual cleaning shall be provided.

### **X. Temperature Sensor**

At the bottom of the outlet surface, a suitable temperature sensor shall be permanently fixed. It will sense the temperature of the surface at the outlet and send to the digital indicator. The temperature indicator shall be provide in the control panel.

#### **b. Refrigeration System**

##### **i. Compressor**

The compressor(s) shall be rotary/reciprocating, hermetically sealed, suitable for Indian Climatic conditions. The BMC shall be provided with Two compressor (preferably). Make(s) of the compressor shall be approved by BENMILK. Bidders can also offer Energy efficient hermitically sealed Scroll Compressors of equivalent capacity as an alternative to rotary/ reciprocating compressors.

##### **ii. Condenser**

The condenser shall be air cooled finned tube type having sufficient heat transfer area when the unit is operating at extremely high ambient

temperature. For each compressor separate condenser and air cooling fan shall be considered. The air circulation pump shall preferably be force draft type throwing hot air out.

### **iii. Receiver**

A suitable sized sealed receiver shall be provided duly mounted on the skid near compressor(s).

### **iv. Thermostatic Expansion Valve**

Thermostatic expansion valve of suitable size and capacity should be provided in the refrigeration circuit of the BMC. The TX valve should be of reputed make of Maximum Pressure Type having adequate capacity to feed optimum quantity of refrigerant to the evaporator.

### **v. Evaporator**

The evaporator shall be at least 1/3<sup>rd</sup> height of the tank. The gap between inner shell and jacket plate shall be such that maximum heat transfer takes place in direct expansion of the refrigerant travel shall be designed in such a way that it reaches up to the extreme corner of the bottom plate. In case of double compressor, total evaporator area shall be divided and separated in two sections. Each section shall have separate suction and discharge connecting to each compressor.

### **vi. Refrigeration pipe, fittings and control**

All pipes, fittings and controls shall comply with the latest relevant code applicable. The make of each item shall be approved by BENMILK. Copper/SS tubing shall be routed in such a way that if any leakage occurs during operation it can easily be detected and the defective portion can be repaired/recalled without dismantling the whole system. All the pipes shall be clamped properly with fixed support. In case of double compressor system, pipe, fitting and control are designed in such a way that both the compressors can run independently.

## **5. Electrical Control Panel**

### **a. Control Panel**

Three control panels shall be provided: One Main Control Panel for the main power supply tapping for the entire plant, second one as Refrigeration Control Panel and milk control panel for the BMC tank is the third one. Each panel shall be provided with MCBs of suitable ratings for switching and protection as required. The incoming and outgoing power supply terminals shall be covered, and secured with a lead seal to prevent tampering. The door of the panels to be with lockable door handle.

### **i. Main Control Panel**

This panel should be suitable to tap the incoming State Electricity Supply through a MCCB and feed the refrigeration unit and agitator motor of the BMCU(s), milk unloading and despatch pump(s), Heat recovery gyser, lighting MCB (32 Amp. TPN) and spare MCB (32 Amp. TP). When supply is for more than one BMCU, separate outgoing feeder should be provided for refrigeration unit of each BMCU. The DG set (Shall be supplied by Milk Federation) should be hooked up with this panel through a change over switch (to be supplied by the bidder) in order to operate the DG set in place of State Electricity supply as and when required. Voltage stabilizer (Servo Type) with single phase preventer of suitable ratings should form a part of the control panel. The voltage variation from the State Electricity Supply may be assumed between 310 and 450 volts in case of three phase mains supply. The Voltage stabilizer should be suitable for taking the entire load connected to the panel board.

### **ii. Refrigeration Control Panel**

The refrigeration control panel shall be made of SS and to be wall mounted near the unit. The panel shall be provided with motor starters, ON/OFF push buttons and necessary MCBs, control wiring, line voltage controller to guard the compressor against supply voltage fluctuations etc. In case more than one compressor is provided in the refrigeration system, the control panel shall be provided with a sequence controller and timer to start one compressor at a time to avoid surge on power supply. The panel shall also have facility to operate refrigeration unit on auto/manual mode. In the auto mode, as soon as the milk temperature reaches the pre-set value, the compressor should put-off to avoid freezing of milk and vice-versa. The compressor and the BMCU should be properly earthed.

### **iii. Milk Tank Control Panel**

The milk tank shall be provided with a tank/wall mounted control panel with timer to control the intermittent operation of the agitator and the digital temperature indicator (with a battery backup) to indicate the milk temperature on continuous basis.

It shall include MCBs etc., as required for switching and protection. The agitator(s) shall have interlocking with top cover opening limit switch. The limit switch shall put off the agitator as soon as the top cover is opened up.

## **6. Accessories and optional items**

### **a. Milk Filter**

Each system shall be provided with two SS filters with either SS fine mesh or nylon cloth as filter screen suitable to filter extraneous matter such as particles, hay, flies, cow dung, etc. One filter shall be on balance tank and the other at the inlet of BMCU. The filter shall be designed in such a way that it can frequently and easily be cleaned.

## **b. Stainless Steel Process Pipe and Fittings**

Stainless Steel AISI 304 process pipe shall be used for milk transfer from balance tank to BMCU either by gravity flow or through SS sanitary milk pump and CIP line. The pipe shall be expanded type having minimum 1.6 mm thickness. Inside of the tube shall be acid pickled and outer surface mirror polished. All bends and Tees required to complete milk and CIP line shall also be manufactured from the prime quality process tube as described above. All the valves and fittings required shall be of AISI 304, SMS standard made of either investment casting or forging. The milk contact surface shall be ground smooth or lapped having minimum surface roughness 150 girt. The outer surface shall be mirror polished. Material of gasket for milk application shall be neoprene / nitrile rubber.

## **c. Stainless steel sanitary Milk Pump**

Where the gravity flow from milk reception balance tank to the BMC is not possible due insufficient level difference, a 5000LPH milk pump shall be considered for pumping of milk from balance tank to BMC. Pump impeller and casing shall be made out of SS AISI 304 material. All milk contact surface shall be of sanitary design. Inlet and outlet of the pump shall end with SMS union. The pump shall be provided with approve make motor have "E" class insulation and IP 55 protection. The flange end motor shall have stainless steel shaft having hygienic mechanical sealing arrangement to prevent leakage from pump casing to rotor side of the motor. Pump shall be covered with SS shroud having air ventilation grill. The pump shall have SS adjustable ball feet. Make of the pump shall be approved by BENMILK.

## **Requirements for SS Centrifugal Milk Pump, Capacity: 5000LPH**

### **1. FUNCTIONAL REQUIREMENTS**

The pump would be used for transfer of milk

### **2. DESIGN REQUIREMENTS**

Capacity: 5000 LPH with 20 MWC head

General Design: The pump should be of sanitary design

Finish: All SS surfaces are to be polished to 150 grits

### **3. SCOPE OF SUPPLY**

The Pump: It should be made from SS conforming to AISI 304

The Drive: The pump should be provided with flanged motor with hygienic sealing arrangement. The motor should have class "E" insulation. The pump and drive should be integrated together. The shaft end for fixing the impeller should be of SS.



### **Accessories:**

Inlet/outlet: Stainless Steel (AISI 304) inlet and outlet should end in stainless steel complete union. The inlet should be 230 mm above the finished floor level.

Motor Shroud: The motor part of the pump should be SS shrouded. The shroud should be easily dismountable. It should have provisions for air circulation and entry of electric cable.

Legs: The pump with drive should be supported on legs with SS ball feet. The ball feet should have provision for height adjustment of 50mm.

Anti Splash Guard: Anti splash guard should be provided to protect the motor from water splashing.

Earthings: Four numbers plate-pipe earthings to be supplied and installed at site (2 for BMCU & 2 for DG set) in earth pit. Earth connection from pit to machine to be made by GI strip as per IE rules.

#### **d. Cables and Electrical Switch Gears**

The power cable required for connection for the refrigeration compressor, milk pump, agitator, etc. shall be armoured aluminium conductor of suitable size and of approved make. Control cable shall be of suitable size flexible copper conductor and of approved make. Size of different cables to be used should be got approved by the BENMILK before supply.

All electrical switch gears and control required for the complete system shall be of reputed make and of suitable rating.

#### **e. Dump Tank**

Dump Tank is to be used for dumping milk cans or milk filled vessels.

The Milk Dump Tank should have the following standard features:

AIS I304 stainless steel sanitary construction.

Standard capacity of 200Ltr for BMCU (2000Ltr) & 500 Ltr for BMCU(5000 LPD)

Large radius corners for easy cleaning

Stainless steel legs with adjustable ball feet

Sanitary 150 grits finish inside and out

#### **f. Can Tipping Bar**

It is to be grouted to floor. Filled Milk Cans are manually dumped in Dump Tank from over this tipping bar. Tipping wood is made up of pure TEAK WOOD, which is good in strength to withstand sudden force exertions. Teak wood profile is made in such a way that it ergonomically suits the person standing near tipping bar to tilt cans easily. Complete structure is made up of M.S./G.I. Construction and duly painted as per standards.

## **7. Installation, Commissioning and Training**

### **8.1 Installation**

Installation of all equipment, including minor civil works required to secure the equipment to walls and floors, to provide galvanized steel supports wherever required, necessary conduit/tray to lay and connect all electrical and controls circuits. Any major civil works will be undertaken by the BENMILK. All tools and tackles required to execute the job shall be made available by the supplier.

### **8.2 Commissioning**

Supplier shall arrange commissioning of the BMCU to the satisfaction of the Project Authority/ BENMILK and arrange performance trial runs. All the consumable required

during commissioning of the plant shall be supplied by the equipment supplier.

### **8.3 Spares**

Along with the BMCU, spares for two years of trouble free operation of the complete system shall be supplied by the bidder.

### **8.4 Tool Box**

A GI sheet Tool Box containing all sets of necessary tools required for regular maintenance of the unit shall be supplied along with the BMCU.

### **8.5 Manual**

Two sets of operational and maintenance manual in English bearing complete details of starting up, putting off, critical checks and day to day maintenance of the complete system are to be provided. The manuals should also have required electrical circuit diagram.

### **8.3 Training**

Supplier shall arrange training to the team of staff for efficient operation and maintenance of the complete system.

## **9 Inspection**

BENMILK has a right to inspect all the component of the BMCU during fabrication/manufacturing stage. Before starting the fabrication work supplier shall submit OAP & QIP for approval from BENMILK. The milk cooling tank shall be checked with dye penetration test for welding defect, surface roughness check, water tightness test/hydraulic test.

## **10 General Requirements**

### **1.1 Technical Details**

The bidder shall provide all the technical details, as per format enclosed in appendix – 1 over and above the general description in each section.

### **1.2 Make of the items**

The bidder shall provide a comprehensive list of all the bought out items fitted in the BMCU. It is to be ensured that all the make considered shall be of international/national repute and of proven quality. Manufacturing of all these items shall be in accordance to the relevant

international/national code. Bidder shall obtain necessary approval from BENMILK for makes of all bought out items.

### **1.3 Drawing**

Bidder shall submit a detailed general arrangement drawing for complete system giving complete details with bill of materials, size, capacity, quantity, material of construction, thickness etc.

**1.4 Equipment selection Criteria** Bidder shall submit along with the offer detailed calculation sheet with proper justification for selection of compressor(s), evaporator(s), fan(s), thickness of tank, milk pump, insulation material and thickness etc.

## **GENERAL GUIDELINES**

1. Necessary Earnest Money is to be submitted for participation in the tender.
2. After publication of e-tender in newspaper, detailed Specification together with terms & conditions, BOQ (Bill of Quantities) are obtainable from website <http://wbtenders.gov.in> for free of cost. **Submission of tender by the tenderer can be made with the help of DSC (Digital Signature Certificate) in this website (<http://wbtenders.gov.in>)**. Documents regarding e-tender will be viewed in the Departmental website <http://www.benmilk.com> simultaneously.
3. Tenders should be normally be floated in two parts one Technical Bid (BID-A) and other Financial Bid (BID-B).
4. Request for Bid documents/Specification by post will not be entertained.
5. Tender of the above stated equipment must be supported by :
  - a. **Earnest Money Deposit : Rupees 20,000/- (LS)** to be submitted through On-line to the Govt. portal ([www.wbtenders.gov.in](http://www.wbtenders.gov.in)). **No exemption in this respect will be allowed.**
  - b) **GST Registration Certificate.**
  - c) **Professional tax Clearance Certificate along with challan valid up to 31.03.2018.**
  - d) **Trade License.**
  - e) **PAN card.**
  - f) **Printed Brochure/Literature, Drawings of the quoted item(s)**
  - g) **Copy of terms & conditions for submission of tender duly digitally signed.**
  - h) **Credential certificate in regard to the same type work.**

Documents at (a) to (h) must be submitted (on line) in original. Attested photo-copy will not be considered in on-line submission as valid documents. *Bidder(s) will have to sign the terms & conditions of N.I.T. before execution of agreement, if selected.*

**i) Bidders must submit signed Hard copies of Drawing/Brochure/NIT/ Application/Affidavit etc. (Off line) in a sealed cover (mentioning NIT No. within 18.05.2018 up to 5.00 PM (See Clause No. 19 in Terms & Condition) at Milk Federation Office, Kolkata.**

**NO TENDER WILL BE ACCEPTED IF THE SAME IS NOT SUPPORTED WITH ALL THE ABOVE DOCUMENTS MENTIONED AT SL. NO. (a) TO (h) IN BID-A IN STATUTORY COVER & NON STATUTORY COVER (ON LINE) AND NON-SUBMISSION OF HARD COPIES OF DRAWINGS/LAYOUT, SIGNED NIT, APPLICATION, AFFIDAVIT, CREDENTIAL CERTIFICATES ETC WITHIN STIPULATED TIME FRAME.**

**Uniform Basic Rate should be quoted NET in figure inclusive of delivery, packing, insurance, loading & unloading charges, installation & commissioning etc. for Supply of items to the site (Around 200 KM from Kolkata) at BOQ (Bill of Quantities) in financial Bid (BID-B) .THE OFFERED RATES SHOULD BE VALID up-to 365 days from the date of opening of Financial Bid. Rates of GST, and percentage of GST (indicating HSN code) are to be indicated extra , in the separate column of BOQ (Bill of Quantities) in financial cover (BID-B)**

Technical proposal (BID-A) should contain statutory & non-statutory document as described above. Financial proposal (BID-B) should contain the following documents in one cover (folder) i.e. Bill of Quantities (BOQ). The bidder is to quote the rate of item on line through computer in the space marked for quoting rate in the BOQ.

**Supply, installation and commissioning of the items are to be completed within 45 days from the date of issue of Work Order/Contract failure of which penalty will be imposed @ 1% of work value per week.**

The intending bidders are requested to submit their tender along with prescribed application form in tender portal/online <http://wbtenders.gov.in> on or before 18.05.2018 (See clause 19 of Terms & Condition). The software shall make automatic encryption of the Technical as well as Financial Bid and no one shall be allowed to open two Bids prior to the date and time earmarked for opening by the Tendering Authority. After evaluation of Technical Bid, those who qualify, their Financial Bid shall be opened. The technical proposal (BID-A) will be opened on line on 22.05.2018 (See clause 19 of Terms & Condition).

**Pre Bid Meeting:**

The pre-bid meeting shall be held on 08.05.2018 at 03:00 PM at West Bengal Milk Federation office, LB-2, Sec-III, Salt Lake, Kolkata- 700 106 .

The purpose of the meeting shall be to clarify any issues and to get answers of the questions on any matter related to the technicalities of the items.

In the event of any discrepancy between downloaded tender document and master copy of the same available in the office then the latter will be accepted & binding on the bidder. No claim will be entertained.

**The rate should be quoted in the B.O.Q.** Quoted rate will be encrypted in the B.O.Q. under Financial Bid. **In case quoting any rate in any other place, the tender is liable to be summarily rejected.** All the tender documents including N.I.T., terms & conditions for submission of tender & B.O.Q. will be the part & parcel of the bid documents.

The undersigned reserves the right to reject any/or all tender at any stage without assigning any reason thereof & will not bound to accept lowest tender. No Tender will be accepted across the table/tender box/by post or otherwise.

*Managing Director  
West Bengal Cooperative Milk Producers' Federation  
Ltd.*

**West Bengal Cooperative Milk Producers' Federation Ltd.**  
**LB-2, Sector-III, Salt Lake City, Kolkata-700 106**

.....

Terms & Conditions for on-line submission of e-tender for supply of BMCU having capacity 2000 LPD & 5000 LPD with accessories including Earthings (excluding DG set) under Milk Unions in West Bengal.

**NIT No. WBARD/WBMF/ BMCU/NIT-05e/10/10(QA)/18-19**

**dated: 02.05.2018**

### **1. GENERAL INSTRUCTION TO BIDDER**

In the event of e-filing, intending bidder may download the tender documents free of cost from the

Website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate

**1. General guidance for e-Tendering:**Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the bidders to participate in e-Tendering.

**i) Registration of bidders:** Any bidder willing to take part in the process of e-Tendering will have to be registered with the Govt. e-Procurement System, through the Website <http://wbtenders.gov.in> after obtaining DSC (Digital Signature Certificate).

**ii) Digital Signature certificate (DSC):**Each bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the Govt. of India on payment of requisite amount.

**iii) Tender Fees :**Tender documents may be downloaded free of cost.

### **2.ELIGIBILITY FOR QUOTING:**

***On line tender invited from the Manufacturers of BMCU namely De Laval, IDMC, ISF, Krishna Allied Industries, Aviva Equipments, Jaya Industries/SERAP or authorized agency of these manufacturers having proven experience of supply and installation & Commissioning of such item and having experience to execute such type of job under Milk Federations/Milk Unions/ Govt Dairies.***

### **SUBMISSION OF BIDS:**

Tender should normally be floated in two parts one technical Bid & financial Bid .Both technical bid & financial bid are to be submitted concurrently duly digitally signed in the website <http://wbtenders.gov.in>. All papers must be submitted in English Language.

**Technical bid proposals are to be documented in TECHNICAL COVER. Rate is to be quoted in BOQ (Bill of Quantities) in FINANCIAL COVER.** After evaluation of the Technical bid, those who qualify their financial Bid shall be opened. The decision of the 'Tender Committee' will be final and absolute in this respect.

**3.EARNEST MONEY: Rs. 20,000/- (Rupees Twenty Thousand only).**

### **4. TIME SCHEDULE FOR THE E-TENDER:**

The time schedule for obtaining the BID documents, registration with tendering authorities, submission of bid & other documents etc .will be as per the list provided in clause no. 19 as given below.

**5. SUBMISSION OF THE TENDER:** The tender is to be submitted in a two Bid System:-One **Technical Bid & other Financial Bid** .The documents will get encrypted (transformed into non readable formats)

## **A. TECHNICAL PROPOSAL: BID – A**

- **STATUTORY COVER** containing the following documents:
  - **“BID–A”: PART I (SINGLE FILE MULTIPLE PAGES SCANNED):**

<b>1</b>	<b>Check List in the prescribed format</b>
<b>2</b>	<b>Application in the prescribed format given in Annexure I</b>
<b>3</b>	<b>Authorization letter of signatory from Company in case of authorized agency.</b>
<b>4</b>	<b>Copy of NIT and terms &amp; conditions duly digitally signed.</b>

**PART – 2 (NON-STATUTORY COVER)** containing the following documents:

Sl. No	Category	Sub Category Description
1.	<b>CERTIFICATES-</b> ✓ All valid up to 31.3.2017. ✓ All certificates are to be furnished in English/Hindi Vernacular ✓ Affidavits are not valid. ✓ Scanned original copy	ii) PAN Card of the authorized signatory. ii) Prof. Tax clearance certificate . iii) GST Registration certificate.
2.	<b>COMPANY DETAILS</b> (valid up to 31 <sup>st</sup> March, 2017), scanned original copy	iv) Trade License v) Credential Certificates
3.	<b>DECLARATION 1,2,3</b> (Scanned original copy)	<b>Technical specification, Manual, Drawings of the quoted item</b>

**N.B.: ALL STATUTORY & NON-STATUTORY DOCUMENTS ARE REQUIRED TO BE FURNISHED IN ORIGINAL AS & WHEN ASKED FOR. Neither Photocopy nor cyclostyled literature will be accepted, in case of Brochure.**

## **B. FINANCIAL COVER: BID - B**

- **BOQ:**
  - ❖ The folder as “Financial Bid” shall contain

a) BASIC RATE of the item as per the mentioned Specification including incidental charges, Delivery/Transportation Charges (F.O.R. destination including unloading), packing, insurance, Installation & Commissioning and exclusive of GST, to be quoted in the bill of quantities (BOQ) for supply to the specific sites.

b) GST to be quoted in separate column of Bill of Quantities (BOQ).

Hard copies of Bid -A (Technical Bid) should be submitted physically to the Office at LB-2, Sector-III, Salt Lake City, Kolkata-700106 as per scheduled date & time more clearly described in the time programme under sealed cover through a forwarding letter superscribing *e-tender for supply of Mentioned items* on or before 18.05.2018 upto 5.00 PM failing which the bidder shall be disqualified.

- ❖ **SUBMISSION OF HARD COPY OF FINANCIAL COVER (BID-B) IS TOTALLY PROHIBITED AND ONLY BE SUBMITTED THROUGH ON LINE E- TENDER PORTAL.**

## **6.EVALUATION OF TENDERS:**

During the tender Evaluation Process, the **Technical proposal** (BID-A) will be opened first. Those bidders who have qualified the Technical proposals described in BID-A containing Statutory & Non-Statutory documents in Part-I & Part-II will be identified and only their Financial Cover (BID-B) shall be opened. The Financial Cover (BID-B) will not be opened and will be summarily rejected if that Bidder will fail to meet the technical requirements participating in the tender. The bidder offering the item found suitable & as being as per the tender specification will only be selected.

Technical Evaluation of the Tender will be held on two parts, i.e., **opening & evaluation of tender.**

### **Opening of the Technical Proposal:**

- Technical proposal will be opened by the authorized officers of the undersigned, electronically from the website using their Digital Signature Certificate (DSC).
- Cover (folder) for Statutory Documents and non-statutory documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
- Decrypted (transformed into readable formats) documents of the Statutory & Non-Statutory Cover will be downloaded and handed over to the Tender Evaluation Committee.
- Summarily list of technically qualified tenderers will be uploaded online.
- Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible Bidders will be uploaded in the web portals.
- During evaluation the committee may summon of the Bidders and seek clarification/information or additional documents or original hard copy of any of the documents already submitted and if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

The **Financial Cover (BID-B)** of those bidders passing the technical requirements will only be opened.

**THE DECISION OF UNDERSIGNED/TENDER COMMITTEE WILL BE FINAL BINDING & ABSOLUTE IN THIS RESPECT.**

## **7.TENDER PRE- REQUISITES:**

a)Original Trade License, PAN card, GST Registration Certificate, Professional tax Paid Challan Clearance certificate, Exemption Certificate (all valid up to 31.03.2017), turnover of company are required to be furnished along with the tender (on line).

b)In no case, Affidavit of Trade License / GST Registration certificate will be accepted.

c)Authorized Agencies of the aforesaid item manufacturer should furnish documentary evidence to that effect along with offer will have to be documented as mentioned in Non-Statutory cover (BID-A).

d)Legal documents (made on non- judicial Stamp paper worth Rs. 10/-) regarding appointment of agent/Distributor/Suppliers, if manufacturer or bidder wants to supply through Agent/Distributor/Supplier are to be documented on line as mentioned in Statutory cover (BID-A).

e)Original Trade License, Pan card, GST Registration Certificate, Prof. Tax Paid Challan Clearance certificate, Exemption Certificate, Brochure of quoted item or any other documents are required to be documented on line and are required to be furnished when called for.

f)Bidders, if they do not furnish GST Registration certificate must have to furnish the same at the time of receiving payment against bill otherwise payment, will not be made.

g)Duly certified copy of English/Hindi version of pre- requisites are to be furnished.



h) Prescribed Application Form (Annexure-I) duly filled in and signed & affixed with the seal of the firm by indicating full communicating address with PIN Code No. Telephone No/ FAX/ e-mail address/ website Number, mentioning Tender Notification No. & Date and is to be documented on line.

## **8. RATE**

I) Rate is to be quoted in BOQ (Bill of Quantities) in FINANCIAL COVER-*Bid-Bin* figures. Only one rate should be quoted as per specification to be purchased.

II) Rate should be quoted in the tender proposed to be supplied inclusive of all incidental charges such as delivery (up to Site), loading, un-loading, cost of transportation, Insurance, etc. GST to be quoted in other column.

III) Rate is to be quoted for item as per the specification given.

IV) Rate shall be valid upto 365 days with successful bidders from the date of order along with any extensions as may be made by the competent authority from time to time.

V) Rate quoted which are not as per specification mentioned in the Tender documents will not be accepted.

VI) Under no circumstances enhance of rate whatsoever will be accepted after closing of online bid submission, whatever the reasons given thereafter except for any tax imposed by the Government. Attested photocopy of Govt. Order in this respect is to be submitted while claiming such increase.

VII) Abnormally LOW RATE of the item quoted by the Tendering Firm in the offer with some malafide intention will not be accepted, if detected.

## **9. VALIDITY:**

(i) Rate quoted shall hold good for 365 days, from the date of approval of rate by the Tendering Authority and/or any extended period, if situation arises and within the validity period, Bidders must be supplied at the approved rate and refusal to supply will be dealt with as per Tender Rule.

(ii) Any addendum/ corrigendum / Extension of validity period will be notified at our departmental Web-Site [www.benmilk.com](http://www.benmilk.com) as it is not possible to inform any individual.

## **10. Inspection:**

Inspection of materials may be undertaken at the supplier's premises whenever necessary by the Tendering Authority/ any officer authorized by the undersigned.

## **11. AFTER SALE SERVICE:**

The Bidders should have local arrangement (within West Bengal) as mentioned earlier for 'prompt after sale service' of the item as and when required within warranty period free of cost.

## **12. WARRANTY:**

Warranty period shall be twelve months from the date of Commissioning of the items.

## **13. SECURITY MONEY DEPOSIT**

a) The successful bidder will have to deposit Security Money @ 2% of total work order value through Demand Draft on any Nationalized Bank in favor of West Bengal Cooperative Milk Producers' Federation Ltd. A/c. : \_\_\_\_\_ (Name of the Bidder/Firm) within 10 (Ten) working

days from the date of issue of Work order failing which the order will be cancelled and no further correspondence entertained.

b) Security money will be refunded after satisfactory completion of warranty period.

#### **14.SUPPLY:**

**Supply, Installation & Commissioning of the ordered item (as per specification) must be completed within 45 (Forty Five) days from the date of order/contract in good condition.**

IT IS OBLIGATORY FOR THE BIDDER TO NOTE THAT FAILURE TO MAINTAIN DELIVERY SCHEDULE OF ORDERED ITEM WILL LEAD TO SEVERE DISLOCATION IN CARRYING OUT PUBLIC SERVICE FOR WHICH SUCCESSFUL BIDDER WILL BE HELD RESPONSIBLE & ACTION WILL BE TAKEN STRICTLY AS PER TENDER RULES LAID DOWN HEREIN WITHOUT ANY PREJUDICE ANY SHORT OF PLEA WILL BE CONSIDERED, SAVE & EXCEPT ANY INCIDENT OCCURRED 'BY ACT OF GOD' OR NON READINESS OF SITE BY ANY MEANS MAY BE CONSIDERED ONLY.

#### **15.PENAL MEASURE:**

1) **The Liquidated Damages be imposed for the delayed supply at 1% per week.**

2) Time being the essence of contract no variation shall be permitted in the delivery time as prescribed in the delivery schedule. If the bidder fails to supply and execute the work in full or part of the order as per the delivery schedule, the West Bengal Milk Federation (WBMF) shall reserve the right to cancel the order besides forfeiture of Security Deposit.

3) The variation in the statutory levies and taxes by State Government /Central Government shall be effected on the end price to the benefit of either the bidder or the WBMF as the case may be.

4) For violation of any of the terms and conditions of the contract, the WBMF reserves the right to terminate the contract, with or without notice as applicable.

5) On termination of contract, the Security Deposit is liable to be forfeited and any of the resultant loss beyond Security Deposit will be recovered from the contractor by legal means apart from forfeiture of any amount due to the contractor.

6) (a). If the bidder defaulted in any of the previous tenders to execute agreement or to pay Security Deposit or to supply ordered quantity either in part or full will not be eligible from participating in this tender.

(b). If the successful bidder defaulted to execute agreement or to pay Security Deposit or to supply ordered quantity either in part or full shall be debarred from participating in this subsequent tender for a period of 3 years.

7) In consequence of submission of false or fabricated documents or any deviation in technical specification by any firm/company, if proved later on shall liable to be Black Listed for 3 (three) years.

#### **16. AGREEMENT**

If the contractor fails to execute the contract satisfactorily at the tendered rate, the security deposit will be forfeited by the Federation.

If the Union/Society incurs any loss / additional expenditure due to the negligence of the contractor in connection with the work during the period of contract, the same shall be recovered together with all charges and expenses from the contractor.

The breakages or damages, if any, caused by the contractor to the property of the Union/Society, the cost will be recovered from the contractor.

#### **17. PAYMENT**

a) Tax Invoice against all supplies is/are to be sent in **TRIPLICATE** and should invariably be submitted along with supply documents (Challan, e-waybill, biltyetc).

b) **60%** payment will be released after delivery of the item in good condition at specified site and on receipt of acknowledged copy of challan/Invoice etc. The payment shall be withheld, in case of violation of any tender terms & conditions. **30%** payment would be released after successful installation and commissioning of the item. Balance **10%** would be released after One (1) year from the date of

commissioning of the item or on submission of Performance Bank Guarantee of equivalent amount for One year from the date of commissioning.

## **18.MISCELLANEOUS:**

- 17) Tender pre-requisites such as Trade License, etc., will not be accepted after scheduled date & time.
- ii) Conditional Tenders & Tenders not accompanied with the documents as mentioned in clause shall be summarily rejected without any reference made to the bidder and no correspondence will be entertained. Moreover, the bidder will have to quote all the items mentioned in the BOQ in full, no partial bidding will be entertained and summarily rejected.
- iii) If the opening of tender is not possible on the scheduled date & time due to any unavoidable circumstances, the same will be done on immediate next working day at the same time prescribed in the tender. The bidder shall not be informed separately in this regard.
- iv) The offer may go to the next bidder, if the successful bidder fails to perform the contract.
- v) No negotiation/enquiry/subsequent representation regarding rate/quantity/quality or otherwise will be entertained after closing of Bid submission (on line) Tender.
- vi) No Import License, any sort of permit, etc. in respect of any item will be provided from this Office and the Tendering Firm should have relied on their own resources.
- vii) The undersigned reserved the right to reject any or all of the tenders at any stage without assigning any reason thereof and will not be bound to accept the Lowest Tender Rate.**
- viii) Any dispute /difference arising out of this Tender will be referred to the sole arbitrator to be appointed by the undersigned and the same will be held at Kolkata. Arbitrator will have the power to pass interim order and will be guided by the Arbitration & Conciliation Act, 1996.
- ix) When a Tendering Firm submitted their tender in response to this Notification, they will be deemed to have understood fully the contents, the requirement, term & conditions of this tender. No extra payment will be made on the pretext that the Tendering Firm did not have a clear idea of any particular point. Any offer made in response to this tender when accepted by the Tendering Authority will constitute a contract between the parties.
- x) Non-compliance to any terms & conditions/specification laid herein shall constitute a breach of contract and penalty for non-compliance shall be enforced very rigidly.
- xi) Firm quoting rates on behalf of its Principal should indicate that it is a DIVISION of the principal firm.
- xii) All notice intended to be served on the bidder will be deemed to have been duly served, if sent under certificate of posting or Registered post to the address mentioned in the tender or by any other process permissible under civil law.
- xiii) ALL INSTRUCTIONS GIVEN EITHER IN THE SPECIFICATION OF ITEMS, TENDER NOTICE, TENDER & ORDER FORM ARE BINDING ON THE BIDDER & ARE PART OF TERMS & CONDITIONS.**
- xiv) In the event of delay/non-availability/garbled printout/inconvenience in getting access to the Website for downloading tender documents, the authority will not be held responsible, if there is any discrepancy arises in between printing of downloaded tender documents, the master copy available at the office will be acceptable and intending bidders shall have to abide by.

xv) Any addendum/ corrigendum / Extension of validity period will be notified at our departmental website [www.benmilk.com](http://www.benmilk.com) as it is not possible to inform any individual.

xvi) The bidder (If asked) shall provide Raw material test certificates, Manufacturer Test Certificates and arrange to provide instrument for identification of material to confirm as per technical specification during the inspection. Detailed evaluation done based on the Documents / Records / Evidences/ Certificates produced by the Applicant in the Technical Bid. Material should be embossed as per requirement during supply by successful bidder.

xvii) INFORMATION REGARDING CURRENT LITIGATION / DEBARRING /EXPELLING OF APPLICANT OR ABANDONMENT OF WORK BY THE APPLICANT

1.(a) Is the Applicant currently involved in any Arbitration /litigation relating to any contract works ?  
Yes/No (b) If Yes, Details thereon

2. (a) Has the Applicant or any of its constituent partners ever been Debarred/Expelled by any agency ? (b)  
If yes, Details thereon

3. (a) Has the Applicant or any of its constituent Partners failed to complete, any contract work during the past ? Yes/No (b) If yes, give details thereon

## **19. DATES & INFORMATION:**

Sl. No.	Particulars	Date, Time & Venue
1.	Date of Publishing of N.I.T. & other Documents (online)	02.05.2018(2.00 PM)
2.	Starting Date of Downloading Documents (Online)	02.05.2018(3.00 PM)
3.	Date of hosting of documents at departmental Website( <a href="http://www.benmilk.com">www.benmilk.com</a> )	02.05.2018
4.	Date and Time of Pre-bid Meeting	08.05.2018 (At 3.00 PM)
5.	Bid submission (Starting) date (On line)	09.05.2018(10.00 AM onwards)
6.	Bid Submission closing (On line)	18.05.2018 Upto 4.00 PM
7.	Last Date, time & venue of submission of Hard copies of signed NIT, Drawings, Tech Specification, Affidavit, Credentials etc. (off line/Physically)along with brochure in the sealed cover.	18.05. 2018 Up to 5.00PM at Milk Federation Office, LB-2, Sector-III, Salt Lake, Kol-106.
8.	Bid opening date for Technical Proposals (Online)	22.05.2018 at 03.00 PM onwards
9.	Date of uploading list for Technically Qualified Bidder(online)	Shall be declared later
10.	Date for opening of Financial Proposal (Online)	Shall be declared later
11.	Date of uploading of successful Bidder along with the approved rate	Shall be declared later

21. MANAGING DIRECTOR, MILK FEDERATION RESERVES THE RIGHT TO CHANGE THE ABOVE SCHEDULE IN CASE OF ANY EXIGENCIES AFTERPUTTING UP A NOTICE IN THE DEPARTMENTAL WEBSITE.

22. During the scrutiny, if it comes to the notice to tender inviting authority that the credential or any other paper found incorrect / manufactured/ fabricated, that bidder would not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice.

23. The Tender Selection Committee reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.

Managing Director

**FORMAT FOR CHECK LIST**

**Information about Bidders (To be furnished with the Tender)**

Serial Number	Description	Particulars		
		Please ✓ Mark		Page No.
		Yes	No	
1.	Name of the Firm			
2.	Registered Address with PIN code, Phone No., FAX, e-mail, etc.			
3.	Name of the person authorized to enter into & execute Contract Agreement.			
	Item			
4.	Application submitted in Annexure-I			
5.	Authorization Letter of Signatory from Company			
6.	Scanned document of Authorized dealer/distributor certificate and agreement between the manufacturer and the Distributor/Bidder (if applicable)			
7.	Scanned document of PAN Card of the Authorized Signatory.			
8.	Scanned document of GST Registration Certificate.			
9.	Scanned document of Tax Clearance Certificate /Paid Challan.			
10.	Scanned document of Trade License.			
11.	Scanned document of Terms& Conditions of the tender duly digitally signed of each page.			
12.	Scanned document of Printed Literature/ Brochure/ Booklet /Drawings, Manuals whether enclosed			
13.	Digitally signed Scanned N.I.T. (Notice inviting Tender) duly uploaded			

Signature with seal

**Annexure-I**

**Application Format**

**(To be furnished in the Company's Official Letter Head Pad with full Address with contact no. Telephone No. FAX No., e-mail id., Website Address)**

**To**

**The Managing Director**

**West Bengal Co-operative Milk Producers' Federation Ltd.**

**LB-2, Sector-III, Salt Lake City, Kolkata-700106.**

Sub: NIT for supply, Installation & Commissioning of BMCU of 2000 LPD & 5000 LPD capacity with all accessories including Earthing (excluding DG set) under Dist Milk Union in West Bengal.

Ref: NIT NO. WBARD/WBMF/BMCU/NIT-05e/10/10(QA)/18-19

dated 02.05.2018

Sir,

Having examined the pre-qualification and other documents published in the NIT, I/We hereby submit all the necessary information and relevant documents for evaluations:

**i.** That the application is made by me/us on behalf of ..... duly authorized to submit the offer. The authorization letter from the Company is attached with the name of the person authorized to enter into execute the agreement.

**ii.** I/We accept the terms & conditions as lay down in the NIT mentioned above and declare that we shall abide by it for throughout tender period.

**iii.** I/We are offering rate (Item wise) for the items in the BOQ as per Specification mentioned in the NIT duly accepted by me/us.

**iv.** We have experience in the similar work since ..... year and credential certificates are annexed.

**v.** I/We understand that the Tender Selection Committee/ Tendering authority reserves the right to reject any application without assigning any reason.

**vi.** I/We submit an AFFIDAVIT in a Twenty Rupees Non-Judicial Stamp paper duly Certified by Notary Public as per Annexure- II.

Signature of the Bidder with date & office seal

**Annexure – II**

**AFFIDAVIT**

**(To be furnished in a Twenty Rupees Non-Judicial Stamp Paper duly Certified by Notary Public)**

- 1). I/We the undersigned solemnly declare that all the statements made in the documents, records etc., attached with this application are true and correct to the best of my/our knowledge.
- 2). I/We the undersigned do hereby certify that neither my/our firm/company nor any of its constituent partners have abandoned any work/works of similar nature and magnitude in India, in the past.
- 3). I/We the undersigned do hereby certify that any of the contracts awarded to me/us has not been terminated rescinded, due to breach of contract on my/our part in the past.
- 4). I/We the undersigned authorize (s) and request any bank / person / firm / corporation / Government Departments to furnish pertinent information deemed necessary and requested by the WBMF to verify the statement made by me/us or to assess my/our competence and general reputation.
- 5). I/We the undersigned, understand(s) that further qualifying information / clarifications on the statement made by me / us may be requested by the WBMF and agree(s) to furnish such information/clarification within SEVEN Days from the date of receipt of such request from the WBMF

**Dated Signature of Applicant with Seal:**

To be signed by the officer authorized by the Firm/Company to sign on behalf, the Firm/Company with company's seal)

**Note:** In case of sole proprietary concern, affidavit should be signed only by the sole proprietor.

(Title of the Officer)

(Title of the firm/Company)

(Date)

The above named deponent has understood the contents well and solemnly and sincerely declared and affirmed by the deponent in my presence at.....and signed before me on this day of ..... (Seal).

**(Signature of the Notary Public)**