



**The Bhagirathi Co-op. Milk Producers' Union Ltd.**

Feeder Dairy: P.O-Berhampore: PIN -742101: Dist.-Murshidabad

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**BU:DAIRY:RKVY(21-22):2065**

**Dated: 17.11.2021**

**NOTICE INVITING TENDER**

The Bhagirathi Cooperative Milk Producers' Union Limited invites Online Tender (E-Tender) in two bid system for procurement installation and commissioning of 100 AMCUs as per specification terms and conditions mentioned hereunder:

**IMPORTANT DATE AND TIME SCHEDULE**

Sl. No.	Particulars	Date & Time
1	Date of uploading (Publishing)of N.I.T. Documents (Online)	17.11.2021 at 1500 hrs
2	Documents download start date (Online)	17.11.2021 at 1505 hrs
3	Technical Bid proposal submission start date (Online)	20.11.2021 from 1100 hrs
4	Bid Submission end date (Online)	11.12.2021 at 1500 hrs
5	Technical bid opening date	13.12.2021 at 1600 hrs
6	Pre bid Meeting & Demonstration (mandatory)	18.11.2021 till 10.12.2021 during office hours
7	Financial Bid Opening date	To be notified later

**The details of work are given below:**

<b>Nature of Work</b>	Procurement installation and commissioning of 100 AMCUs
<b>Scope of Work</b>	Procurement installation and commissioning of 100 AMCUs
<b>Estimated Cost of Work</b>	1.5 Crore.
<b>Bid Inviting Authority</b>	The Managing Director of The Bhagirathi Cooperative Milk Producers' Union Limited
<b>Statutory &amp; Non Statutory Documents</b>	<ol style="list-style-type: none"><li>1. COMPANY PROFILE which consists of MOA &amp;AOA. Declaration that the Company is operational for 3 years.</li><li>2. GSTIN (GST Registration Certificate)</li><li>3. PAN CARD</li><li>4. MINIMUM TURNOVER of 1 CRORE. AUDITED BALANCE SHEET of 3 years (2017-18), (2018-19), (2019-20).</li><li>5. INCOME TAX RETURN of 3 years (2017-18), (2018-19), (2019-20).</li><li>6. COPY OF AFFIDAVIT as per ANNEXURE-I DULY SIGNED &amp; SEALED AND NOTARIZED BY THE BIDDER.</li><li>7. MINIMUM 3 YEARS OF WORK EXPERIENCE in SUPPLY INSTALLATION, COMMISSIONING of at least 50 AMCUs along with INTEGRATED SOFTWARE in at least 5 MILK UNIONS. COMPLETION CERTIFICATES as a proof of EXPERIENCE must be uploaded.</li></ol>

<p><b>Earnest Money Deposit</b></p>	<p>The EMD amounting to Rs. 3,00,000/- should be deposited online through Net Banking, NEFT/RTGS in favour of The Bhagirathi Cooperative Milk Producers' Union Limited payable at Berhampore. EMD shall not carry interest.</p> <p>Tenderers will select the Tender to bid and initiate payment of pre-defined EMD for that tender by selecting from either of the following payments modes (vide Finance Department Memorandum no. 3975-F(Y) Dt. 28/07/2016) :</p> <ol style="list-style-type: none"> <li>1. Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI Bank Payment Gateway.</li> <li>2. RTGS/NEFT in case of offline payment through bank accounts in any Bank.</li> </ol> <p><b>Payment procedure.</b></p> <p><b>a) Payment by Net Banking (any listed bank) through ICICI Bank Payment Gateway :</b></p> <ol style="list-style-type: none"> <li>1. On selection of net banking as the payment mode, the bidder will be directed to ICICI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.</li> <li>2. Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.</li> <li>3. Bidder will receive a confirmation message regarding success/failure of the transaction.</li> <li>4. If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.</li> <li>5. For transaction failure, the bidder will again try for payment by going back to the first step.</li> </ol> <p><b>b) Payment through RTGS/NEFT:</b></p> <ol style="list-style-type: none"> <li>1. On selection of RTGS/NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.</li> <li>2. The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank account.</li> </ol>
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3. Once payment is made, the bidder will come back to the e-Procurement portal after expiry of a reasonable time to enable the NEFT/RTGS process to complete, in order to verify the payment made and continue the bidding process.
4. If verification is successful, the fund will get credited to the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road for collection of EMD/Tender Fees.
5. Hereafter, the bidder will go to e-Procurement portal for submission of his bid.
6. But if the payment verification is unsuccessful, the amount will be returned to the bidder's account.

**B. Refund/Settlement Process:**

- i. After opening of the bids and technical evaluation of the same by the Quotation inviting authority through electronic processing in the e-Procurement portal of the State Government, the Quotation inviting authority will declare the status of the bids as successful or unsuccessful which will be made available, along with the details of the unsuccessful bidders, to ICICI Bank by the e-Procurement portal through web services.
- ii. On receipt of the information from the e-Procurement portal, the Bank will refund, through an automated process, the EMD of the bidders disqualified at the technical evaluation to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of bid is uploaded to the e-Procurement portal by the Tender inviting authority.
- iii. Once the financial bid evaluation is electronically processed in the e Procurement portal, EMD of the technically qualified bidders other than that of the L1 and L2 bidders will be refunded, through an automated process, to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of financial bid is uploaded to the e-Procurement portal by the Quotation inviting authority. However, the L2 bidder should not be rejected till the LOI process is successful.
- iv. If the L1 bidder accepts the LOI and the same is processed electronically in the e-Procurement portal, EMD of the L2 bidder will be refunded through an automated process, to his bank account from which he made the payment transaction. Such refund will take

	<p>place within T+2 Bank Working Days where T will mean the date on which information on Award of Contract (AOC) to the L1 bidder is uploaded to the e-Procurement portal by the tender inviting authority.</p> <p>v. As soon as the L1 bidder is awarded the contract (AOC) and the same is processed electronically in the e-Procurement portal –</p> <p>a) EMD of the L1 bidder for tenders of State Government offices will automatically get transferred from the pooling account to the State Government deposit head “8443-00-103-001-07” through GRIPS along with the bank particulars of the L1 bidder.</p> <p>b) EMD of the L1 bidder for tenders of the State PSUs/Autonomous Bodies/Local Bodies/PRI, etc. will automatically get transferred from the pooling account to their respective linked bank accounts along with the bank particulars of the L1 bidder.</p> <p>In both the above cases, such transfer will take place within T+1 Bank Working Days where T will mean the date on which the Award of Contract (AOC) is issued.</p> <p>vi. The Bank will share the details of the GRN No. generated on successful entry in GRIPS with the E-Procurement portal for updation.</p> <p>vii. Once the EMD of the L1 bidder is transferred in the manner mentioned above, Tender fees, if any, deposited by the bidders will be transferred electronically from the pooling account to the Government revenue receipt head “0070-60-800-013-27” through GRIPS for Government tenders and to the respective linked bank accounts for State PSU/Autonomous Body/Local Body/PRI, etc tenders.</p> <p>viii. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD &amp; Tender Fees (if any) were initiated.</p>
Technical Bid Evaluation	The Technical Bid will be evaluated by the Tender Committee. Bidders shall upload all the necessary documents in the Technical Folder which will be verified and evaluated by the Tender Committee.
Financial Bid	<p>Rate shall be quoted in the Financial bid</p> <p>The bidder shall quote the rate online through Computer only in the space marked for quoting rate in the Bill of Quantities (BOQ). <b>Only downloaded copies of the above documents, digitally signed by the bidder are to be uploaded (Excel file).</b></p> <p>The rate quoted per unit item by the tenderer shall be inclusive of all elements of taxes and duties, demands, tolls etc. The tenderer shall include income tax, GST etc as applicable, octroi if any and all other charges if applicable while quoting the rate, FOR (freight on road) delivery of the material in the place of delivery installation and commissioning.</p>
Validity of Bid	180 days
E Tender registration and bidding	<b>ONLINE BID SUBMISSION:</b>

	The bidders are required to submit the Technical and Financial bid documents ONLINE i.e. uploading of the documents complete in all respect by following the Online Bid submission procedure.
Download of Tender	<p>1. <b>Download of Tender</b></p> <p>Tender to be downloaded only from the e-Tendering portal of Govt. of West Bengal i.e. <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a> .The tender will be submitted in two bid system i.e. Technical bid &amp; Financial bid only through online.</p> <p>2. <b>Online Bid submission procedure</b></p> <p>i. <b>Registration of Bidders:</b> Agencies/Bidders who are interested in participating e-tenders will have to get enrolled &amp; registered with the Government e-Procurement system. through logging on to <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a></p> <p>ii. <b>Digital Signature certificate (DSC):</b> Each bidders is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) having Signing and Encryption certificate for submission of tenders from the approved service provider of the National Information's Centre (NIC) on payment of requisite amount or any service provide as may be allowed by the Finance Department, Govt. of West Bengal.</p> <p>iii. <b>Tender Download:</b> The bidders can search &amp; download NIT &amp; Tender Documents electronically from computer once he logs in to the e-Tendering portal <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a> using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.</p> <p>iv. <b>Submission of Tenders:</b> General process of submission, Tenders are to be submitted through online to the stipulated website in two folders, (one is Technical Bid &amp; the other is Financial Bid) before the prescribed date &amp; time using the Digital Signature Certificate (DSC). The documents are to be uploaded duly digitally signed. The documents will get encrypted (transformed into non readable formats).</p>
Award of Contract	The <b>bidder selected</b> after evaluation of financial bid by the tender committee will be given Award of Contract, subject to fulfillment of Terms and Conditions provided in the tender.
Publication of Tender	<ol style="list-style-type: none"> <li>1. E-Procurement Portal Govt. of West Bengal (<a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a>)</li> <li>2. Murshidabad District Website (<a href="https://murshidabad.gov.in">https://murshidabad.gov.in</a>)</li> <li>3. Website of the Milk Union (<a href="http://www.bhagirathimilk.com">www.bhagirathimilk.com</a> )</li> <li>4. Office Notice Board</li> </ol>

## **Detailed Specifications of Requirement:**

### **1. Functional Requirements:**

- a) The Unit should be suitable for instant weighting of milk, measuring FAT & SNF content. The Unit should calculate the price payable to the milk producer on the basis of the quantity and quality of milk collected.
- b) The Unit should print the amount calculated for the supply of milk thereof with member identification details. The Unit shall also be used for maintaining the individual milk producers' quantity and quality wise milk collection data and total milk collection data quantity and quality wise of the DCS/ Collection Centre together with the details of milk business transactions of the dairy co-operative society. The payment of milk bill in the farmer's account from the Milk Union in any frequency as desired by the Milk Union must be done using the Integrated Software.
- c) The Unit should be able to measure milk component contents vis. fat from 0.5 % to 12 % & SNF from 6 % to 12 % and able to weigh milk up to 200 kg per batch at a time. This should process 80 (minimum) samples of milk per hour.

### **2. Design & Other Requirements:**

The AMCU specifications detailed in the Tender Notice are minimum required specification. The vendor has to provide for all the components/ tools / cloud/web and software required for meeting operational & functional requirement. Bidders can offer better & higher version specs if available with them which could be considered, but without any extra weightage.

### **3. Operating Environment:**

All the components of the AMCU should be rugged and must operate in dusty, hot and humid village environment where power outage and supply fluctuations are frequent. The operators mostly shall not be skilled persons and not conversant in using electronic equipment:

- Power supply: 160 to 260  $\pm$  10 % V (AC); 50 Hz  $\pm$  3 % / 12 V (DC)
- Ambient Temperature: 5 °C – 50 °C
- Relative Humidity: 50% to 95%

### **4. Operational provisions:**

**Installation and Commissioning:** All the components of the AMCU should be assembled, configured, commissioned and demonstrated for the purpose of smooth milk collection by the supplier to the satisfaction of the user. The bidder should install and provide all the inputs/

**Warranty:** All the components included in the AMCU shall be warranted for 3 years comprehensive warranty except burnt & broken items. Supplier has to ensure the installation and commissioning of proper earthing before start of actual operation of AMCU. Any issue regarding repair or maintenance which leads to non-functioning of AMCUs must be resolved within 24 hours. In case supplier is unable to resolve the issue then the supplier has to ensure availability of standby equipment for resumption of operation till repair and maintenance of the equipment.

**Annual Maintenance Service:** 3 (Three) years of Comprehensive AMC is to be included. A Field Technician per 50 AMCU must be provided for routine check-up, preventive and breakdown maintenance such that the system is available by next milk collection shift. Servicing must be carried out at the DCS. The Technician must carry tools tackles and sufficient gadget to render the Service at the DCS level. The Service shall be deemed to be complete when the DCS Secretary or Chairman or Tester or any other personnel in his absence verifies the job and signs the Service/Maintenance report to his full satisfaction. Burnt & broken items shall not be covered under AMC.

**Training:** Comprehensive hands on training must be provided to 100 DCSs' staff where the AMCU is to be installed and officials of the Milk Union and Chilling Centers. Training includes introducing the trainees with the system, environment, operation and handling of the equipment, safety features and practices. The dos and don'ts are to be explained properly.

**Operational & Cleaning SOPs (including leaflet on troubleshooting):** Provide laminated wall chart indication important steps involved in operation & cleaning of the Milk Analyzer for displaying in DCS.

**Earthing:** The proper earthing as per local Electricity Board Regulations is to be done.

**Cloud & Software:** The intending bidder must have AMCU Web application for the Milk Union and Desktop Software and android application for DCS. The Milk procurement in the DCS shall be through the Desktop application or android application which when internet is available shall provide real time data which shall be viewed through the Web Application by the Milk Union. In case of unavailability of internet the Software shall function as a stand-alone type and as soon as internet is available the data shall be synchronized and available to the Milk Union through the Web portal.

**It should be noted that the Milk Union is having 467 no(s) of AMCU. The Desktop, Web & Android application package offered by the bidder must operate seamlessly with the existing AMCU.**

**Internet Connectivity:** The bidder must quote the rate for providing USB Internet Connectivity Dongle enabled with 4G internet connectivity technology. The service provider for internet connectivity will be decided in consultation with the Milk Union as per good availability of internet access of the area where AMCU will be installed.

**Installation and Commissioning:** All the components of the AMCU should be assembled, configured, commissioned and demonstrated for the purpose of smooth milk collection by the supplier to the satisfaction of the User. The supplier must install, commission, demonstrate & impart training to the end users of the Dairy Cooperative Society and Milk Union with full satisfaction.

## SPECIFICATION OF COMPONENTS OF AMCU

### 1. MILK ANALYZER

Type	<p><b>Ultrasonic Double Sensor based milk analyzer for testing fat, SNF, Protein, lactose, density &amp; added water etc.</b></p> <p>Functional Requirement: To test &amp; display fat, SNF &amp; added water of sample milk, protein and lactose.</p>
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	<p>Measuring parameters:</p> <p>1. Fat: 0.5% to 12%, with accuracy + / - 0.1%, with Resolution: 0.01% and Repeatability: + / - 0.05%.</p> <p>2. SNF: 6 % to 12 % , with accuracy + / - 0.2%, with Resolution : 0.01% and Repeatability: + / - 0.05%</p> <p>3. Added water in Milk: 0% to 60% with Resolution: 1% and accuracy 0.5%.</p> <p>4. Protein: 2% to 6% with accuracy +/-0.2%</p> <p>5. Lactose 0% to 5% with accuracy +/-0.2%</p> <ul style="list-style-type: none"> <li>• Measuring cycle – 40 Sec per sample</li> <li>• Average testing speed – 80 samples / hr. (minimum).</li> </ul>
Operational abilities	Mode selection for type of milk -(1) Cow, Buffalo, Mixed / Single Curve with Cleaning, Calibration, System error list etc.
MoC for enclosure	AISI 304, 0.75 mm thick minimum
Cleaning Procedure	Automatic
Power	12 Volt DC/220 Volt AC
Interface	RS 232
Method	Ultrasonic
Display	LCD with Digital Display
Automatic Intake	Required
Separate function for calibration and correction	Required
Loose Accessories	<ul style="list-style-type: none"> <li>• Holding bottom tray for spillage- 1 No.</li> <li>• RS 232 Serial Cable – 1 No.</li> <li>• A C Power cable with plug top – 1 No.</li> <li>• Measuring Mugs- 2 No(s)</li> <li>• Daily cleaning solution – No. of Bottle 3 (Quantity minimum 200 ml or equivalent).</li> <li>• Weekly cleaning solution – No. of Bottle 2 ( Quantity minimum 200 ml or equivalent) or</li> <li>• Monthly cleaning solution – No. of Bottle 1 ( Quantity minimum 200 ml or equivalent)</li> </ul>
Manual	Operating Manual each in English & Bengali (in this case Bengali) per AMCU supply

## 2. ULTRASONIC MILK SAMPLE STIRRER

Functional Requirement	To remove air from fresh milk sample by vibrations created in the milk before testing of milk.
Type	Table top, Ultrasonic Stirrer
Stirrer for Ultrasonic Stirrer	SS Ball type
Ultrasonic Frequency	20-25 KHz (Variable)
Timer	1-99 Sec Selectable
Environment	Suitable for dusty / humid village environment, operating temperature – 5 <sup>0</sup> C to 50 <sup>0</sup> C
Connecting Cables	Minimum 1.5 m Power cable with plug top.



Complete ready to use	Item complete in all respect with required electric / electronic parts, ready for use at site.
MoC for body	AISI 304, 1.2 mm thick minimum
Operating Voltage	230 Volts+/-10, AC, 50Hz and 12 Volts DC

### 3. UPS

Functional Requirement	To give regulated AC power to AMCU from mains or attached battery
Type	Line interactive type
Capacity	1500 VA minimum
Back up time (Full Load)	3- hrs. minimum ( in one shift)
Output Wave Form	Sine Wave/ Quasi Sine wave
Voltage at input	160-280 V ( $\pm 10\%$ )
D C Voltage Bus	24 V
Voltage at output (With Mains as well as with Battery) with in-built AVR	220V + / - 10%
Full protection	Inbuilt protection –Under / Over voltage, Short circuit, Overload Cut off, Low Battery Cut-off, Spikes cut-off
Warning (LED + Sound)	Low Battery & Overloads
Input/ Output Frequency	50Hz + / - 3 Hz, No Correction
Battery switch over	Battery switch over in 3 -10 mi.second
Battery Charging	<ul style="list-style-type: none"> <li>• Preferably to take place even at 130 &amp; 300 V with SMPS charger.</li> <li>• Boost charging at minimum 7A.</li> <li>• Battery overcharge protection.</li> </ul>
Battery No and Type	2 No 100 AH Tubular, Acid filled, low maintenance battery with level in indicator ( Battery should be Maintenance free)
Charging Indicator	Battery charging indicator plus low battery / fault indicator to be provided
Battery Steel Rack	Required
Leads between UPS & Battery	Flexible, Cu conductor PVC, Minimum 1.5 m with lugs at both ends.
Warranty of Battery	3 years. In case of any manufacturing defect or poor workmanship which leads to regular malfunctioning the material shall be immediately replaced by the bidder.
Steel rack for UPS	Required to place UPS above floor
No load loss at 24 Volt when UPS is ON	Minimum

### 4. REMOTE DISPLAY UNIT

Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters in English and Bengali (Local Language).
Type	Wall mounted type

Display Parameters – 8 No.	i) Member's code-3 to 16 digits; ii) Cattle Type – 1 character, iii) Milk Weight – 5 digits; iv) Fat % - 4 digits; v) SNF % - 4 digits; vi) Rate in Rs- 5 digits; vii) Amount in Rs.- 6 digits generally to meet the need of the users.
Interface	RS- 232 / USB Host
Display Type	7 Bright segments, Red LED, 25 mm, 33 No., 11 in each row with 3 rows ( or suitable to meet the requirement)
Labels for display	Screen printed
Environment	Dusty, Humid, preferably housing to be with IP 55 or equivalent protection, rust proof powder coated metallic.
Connection Cables	Minimum 5 m Power cable with plug top with connector at both ends

## 5. COMPUTER

Hardware & Software	Models of PC offered should be of Enterprise / Business Class Desktop PC (OEM). Home / SMB Class Desktop PC shall not be accepted.
Processor	4th Generation Intel Core i5- 4460, 6 MB Cache, 64 bit, 4 Core Processor with Turbo Boost technology
Form Factor	Tower Model
Chipset	Intel Chipset Supporting the above processor
Memory	4 GB DDR3 1333 MHz SDRAM Expandable to 8 GB
Internal Storage	500 GB SATA II HARD Disk Drive
Removable Media	DVD+ / - RW Writer.
Graphics	Integrated Intel HD Graphics supporting 1600 x 1200 resolutions
Audio	Integrated high definition audio
Network	10/100/1000 Mbps Gigabit Ethernet. Device must support USB Tethering from Smartphones or USB dongles.
Display Monitor	18.5" wide screen LCD/ LED Backlit TFT Colour HD Monitor with 1366 x 768 native Resolutions.
Input Devices	USB standard Keyboard and USB Optical 2 button Scroll Mouse with Pad
Ports & Connectors	2 Serial Port, 1 Parallel Port, 1 VGA Port, 1 Microphone / Headphone jack, 1 RJ45 Port.
USB Ports	6 USB 2.0 Ports ( Min. two on front and two on rear side)
PCI Slots	Minimum 2 free PCI Slots.
Compatibility	Windows 10/ Windows 8 / Windows 7 / Vista / 2008 / 2012, Linux Compliant.
Operating System	Licensed Windows 10 professional 64 bit Preloaded with OS Recovery Media Driver CD.
Warrantee obligation	1. Problem resolved within 24 hours of attending the call. 2. Within 48 hours in case any part is be replaced
Scope of work	Installation and configuration
Application Software	The Purchaser would provide the software and application support then following conditions will apply:  1. Supplier to develop and provide Integrated AMCU Software for all functions & requirements of Milk collection center. Supplier to finalize requirements from EIA for all Milk Collection center, develop/modify a software and install in each AMCU with a testing period of software for 6 months from the date of installation of software and subsequent one time modifications in the software

	<p>based on feedback/request from EIA/Milk Collection centers to be done without extra charges.</p> <ol style="list-style-type: none"> <li>2. Software should be Bi-Lingual (English and Bengali).</li> <li>3. Data generated from the new system should be compatible with the format in which the data is accepted by the existing system.</li> <li>4. The software should be user friendly, menu driven, and provide help facility in local language.</li> <li>5. It should be noted that the Milk Union is having 467 no(s) of AMCUs. The Desktop, Web &amp; Android application package offered by the bidder must operate and function seamlessly with the existing AMCUs.</li> <li>6. The data input forms, reports, menus etc. should be in English and in Bengali.</li> <li>7. The application software, if felt essential by the user, may be modified/upgraded to meet the need of the milk collection centre having Single or Cluster Bulk Milk Cooler installations.</li> <li>8. The software should have provision of connectivity of such milk collection centre with milk collection agency's head office in the future.</li> <li>9. The supplier should also make necessary changes on case to case basis, wherever required. The application package should contain legal copy of the database used.</li> </ol>
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## 6. DOT MATRIX PRINTER

Print Method	• Impact Dot Matrix external printer
Pins in head	• 24 pins
Print Direction	• Bi-direction parallel interface UBC 2.0 (Full speed)
Print speed	• 300 cps high speed draft, LQ and other features
Printable column	• 80 ( 10 cpi)
Paper Handling	• Pull tractor unit
Paper Path	• Manual insertion –front or rear in – top out; Push Tractor- front or rear in – top out, Pull tractor – front or rear or bottom in and top out.
MTBF (hours at 25% duty cycle)	• 10000 POH (25% Duty)
Copy Capability	• Original + 3 copies
Cartridge	• Ribbon cartridge black, with 2.5 million characters
Compatible OS with drivers	• MS Windows 10/ 8 / 7 /Vista / XP (32 bit /64 bit), Windows Server 2003 /2008/ 2012 (32 bit /64 bit), Mac OS X v 10.3.9, 10.4, 10.5, 10.6, UNIX, LINUX.
Accessories	• Roll stand

## 7. ELECTRONIC WEIGHING SCALE

Functional Requirement	To Electronically weigh & digital display of milk quantity in liter/kg in a container
Capacity	200 liter/kg.
Least Count	20 ml/gram.
Weight Accuracy	20 ml/gm as per Standards of W & M Rules 1987 medium accuracy Class III
Certification & Stamping	Duly certified and stamped by W&M Dept. and confirming to IS :9281 (pt 1&2)1979, IS:9281 : 1981and IS:9281(Pt. 4) 1983 as amended up-to date
Display Resolution	1 / 10,000,( accuracy class III)
Load Cell	Single, IP 67, grade SS of certified and approved make
Over load & shock load protection	300% to take impact of loading, with audio (beep) visual indication
Platform Size	600mm x 600mm
Platform MoC	AISI SS 304, 1.6mm thick, 150 grit top plate
Platform under frame material / Design	<ul style="list-style-type: none"> <li>• Cold rolled mild steel box of adequate size. Hot dip galvanized after fabrication</li> <li>• All screw / bolts/ nuts to be of SS</li> </ul>
Indication in display EWS unit	Quantity- 7 Segment RED LED, 6 digits, minimum 13mm height, display for mode of operation – zero, tare, kg / litre, by default KG
Display Unit mounting	<ul style="list-style-type: none"> <li>• Pole mounted type with sturdy base and SS 304, 38 mm dia. Pipe – 1.2 m high.</li> <li>• SS 304 Body IP 55, Tactile switch keys with feedback response, auto calibration &amp; auto span with drift correction.</li> <li>• RS 232 serial port with protocol to meet requirement of IBM compatible.</li> </ul>
Calibration protection & Sealing Arrangement	<ul style="list-style-type: none"> <li>• Special arrangement to house PCB &amp; sealing arrangement.</li> <li>• Pass word protection at user end.</li> </ul>
Load cell Cable	Load cell cable form platform to display unit with reinforced heavy duty PVC conduit
Battery for working on power failure	In built, 6 V capacity minimum for 12 hrs.
Power Supply	As given above with minimum 1 m power cable with plug top AC/DC
Model Approval	Manufacturer to have model approval certificate of regulatory authority / Govt. of India ( Weight & Measure Unit)
Stamping at site	Supplier to arrange stamping of each scale at site from local Weights & Measure Inspector before installation. Supplier should include the cost of stamping in the unit rate of AMCU for 3years. Stamping of each weighing scale for each year will be in the scope of the Supplier.

## 8. USB WIRELESS WIFI ADAPTER

Brand	D-Link, TP-Link or likewise
Operating System	Windows 10
Hardware Interface	USB

Mounting Hardware	USB Adapter, Quick Installation Guide , Resource CD
Batteries Included	No
Batteries Required	No
Data Transfer Rate	1000 Megabits Per Second (minimum)
Wireless Type	802.11ac
Data Link Protocol	USB
GSM frequencies	5 GHz
Total Usb Ports	1
Connector Type	Wireless
Includes Rechargeable Battery	No
Supports Bluetooth Technology	No
Item Weight	50-70 gm

### 9. EARTHING - ELECTRODE GEL TYPE

Technology	Earth Electrode (Gel type) maintenance free earthing. Mineral Filling Compound (MFC), Surrounded to earth electrode creates low resistance zone so that output is constant for longer life.
Pipe Material	Galvanized Pipe as per IS : 1239
Class of Pipe	Class – B
Diameter (Outer Dia.)	48 mm
Length	2 Meter
Wall Thickness	2.5 mm
Primary Electrode	Mild Steel Strip
Mild Steel Strip	2.12 m long, 32 mm wide and 6 mm thick
MS Strip Hot dip Galvanized thickness	110 micron
Gel Filled	Highly non- corrosive compound
Earth wire to connect Electrode with Power supply.	Copper 8 m long & 8 mm diameter suitable for interconnection
Filling compound	Adequate
Civil works	Chamber to secure the earthing Earthing: Bidder should install and provide all inputs / material for proper earthing as per IS Code / Local Electricity Board Regulation. The scope of work includes excavation for earth pit, construction of chamber, filling with necessary materials and complete with cover. Supplier will test and demonstrate the resistance as per local EB requirement and furnish record as required

### GENERAL TERMS & CONDITIONS

1. The documents submitted by the bidders should be properly indexed & digitally signed.
2. During the scrutiny, if it comes to the notice to the tender inviting authority that the credential(s) and/or any other paper(s) has/have been of any bidder found incorrect/ manufactured/ fabricated, that bidder will not be allowed to participate in the tender

process and that application will be rejected outright. The Bhagirathi Cooperative Milk Producers' Union Ltd. Reserves the right to cancel the N.I.T. at any time without showing any reason and no claim in this respect will be entertained.

3. During evaluation the Committee may summon any bidder and seek clarification/information regarding bids within the stipulated time frame. In case the bidders fail to clarify any query during the stipulated time frame the bid shall be liable for rejection.
4. The Milk Union may reject any bid from any party with unsatisfactory performance with the Milk Union or any other Milk Union in the past.
5. Inspection of materials may be undertaken at the supplier's premises whenever necessary by the Tendering Authority/ any officer authorized by the undersigned.
6. The Bidders must have local arrangement (within West Bengal) for 'prompt after sale service' of the installed unit as and when required within warranty period free of cost. The service must be attended within 24 hours from the receipt of the information.
7. Bidders are required to go through the Tender Documents understand the requirement the location of the installation and commissioning and then quote their rate. Rate once quoted by the bidder shall be deemed to be quoted by the bidder after understanding the requirements of the Milk Union. Rates once quoted are final and no alteration in rate shall be allowed. All the pages of this NIT must be duly signed and sealed by the bidder as a token of acceptance of the Terms and Conditions of the NIT.
8. **Site Inspection & Demonstration:** It is obligatory for the bidder to perform site inspection and provide demonstration of the Units to be supplied along with the Application Package at his own expense. Non-demonstration of one complete unit of AMCU shall be treated as disqualification of the bidder (s). In any case submission of the e-tender without demonstration of the unit shall straight way reject the bid(s) of the bidder(s). Mere participation in the tender without undergoing any site inspection and demonstration shall lead to disqualification of the Tender.
9. **Price:** Price is mainly divided in two heads **1. Unit Cost** which consists of the cost of installation and commissioning of a Unit AMCU along all in components along with trial run and required training imparted along with all types of incidental charges inclusive and transportation except GST. **2. Annual Maintenance Contract (AMC)** which consists of 3 years of Annual maintenance of cost per unit AMCU inclusive of all except GST. Price shall be calculated on the basis of the (Unit Cost of AMCU+ the Unit AMC charges)\*(no of Units to be procured by the Milk Union. i.e.100no(s)) + (GST). No additional charges whatsoever shall be provided. GST for Unit AMCU and GST for Unit AMC is to be quoted separately.
10. **Bid Validity:** The rate once quoted in this Tender shall remain valid for a period of 180 days from the date of Financial Bid Evaluation. Bidders are therefore required to assess their rates before quoting them.
11. **Warranty:** All the spares and components of the AMCU listed above must be warranted by the supplier for a period of 3 years from the date of installation. If any component is found to be non-functional due to any manufacturing defect or as a result of poor workmanship the component must be immediately replaced by the supplier within 24 hours. In case the replacement is likely to take longer time period then the supplier must arrange for a substitute within 48 hours.

**Warranty Extension:** The warranty of equipment would be extended if equipment remains down during the warranty period, for more than period mentioned below: -

- If equipment has been down for more than 10 days in a year, warranty would be extended by one Month,
- If equipment has been down for more than 30 days due to malfunctioning of the any part supplied by bidder or want of spares/ consumable, warranty would be extended by one Year.

12. **Payment:** Payment shall be released in 3 phases in NEFT/RTGS to the Bank Account of the supplier after submission of 3 copies of invoice along with documents mentioned in Documentation clause which are as follows:

- a. **First Phase:** 50% payment shall be released after receipt of the materials (all the 8 components) as per the Technical specification in good condition certified by the Concerned Official and approved by the Competent Authority. EMD shall also be released after receipt of an intimation in writing from the supplier
- b. **Second Phase:** 40% payment shall be released after 2 months of successful installation, commissioning and trial run of the entire Unit in online and offline mode. All the required training to be imparted to the DCS personnel and official of the Milk Union for release of this payment. 2 months shall count from the very first day when the entire installation commissioning and trial run with necessary training has been imparted.
- c. **Third Phase:** 10% shall be released after 3 years after successful execution of the Contract. This 10% shall serve as Performance Guarantee. In case the party fails to provide maintenance and support as per the requirement of the Milk Union or is found to act in a way which jeopardizes the Milk procurement, the Performance Guarantee shall be forfeited after giving a Notice to the supplier in writing and the supplier shall be debarred from participating into any tender in future.

13. **EMD & Security Deposit:** A (refundable) EMD amounting to Rs. 3,00,000/- should be deposited online through Net Banking, NEFT/RTGS in favour of The Bhagirathi Cooperative Milk Producers' Union Limited payable at Berhampore. EMD shall not carry interest. EMD of unsuccessful bidders shall be refunded within 2 working days after finalization of Award of Contract. EMD of the successful bidders shall be converted into Security Deposit and shall be released along with the first phase of payment.

The onus of proving that a bidder is exempted from depositing earnest money will be on them. Valid Exemption Certificate issued by Competent Authority for claiming exemption of depositing Earnest Money issued by Government must be uploaded to avail exemption. Any party who has availed EMD exemption emerges to be the lowest bidder has to deposit Rs. 3,00,000/- as Security Deposit (refundable and interest free) online through Net Banking, NEFT/RTGS in favour of The Bhagirathi Cooperative Milk Producers' Union Limited payable at Berhampore within 7 days after the Contract is awarded failure to which shall lead to cancellation of the Tender and the said party shall be blacklisted for 3 years.

14. **Insurance:** - The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and

delivery. If the equipment's is not commissioned and handed over to The Bhagirathi Co- Operative Milk Producers Union Ltd. within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the The Bhagirathi Co-operative Milk Producers' Union Ltd.

**IT IS OBLIGATORY FOR THE BIDDER TO NOTE THAT FAILURE TO MAINTAIN DELIVERY& I/C SCHEDULE OF ORDERED ITEM WILL HOLD THE SUPPLIER RESPONSIBLE & ACTION WILL BE TAKEN STRICTLY AS PER TENDER RULES LAID DOWN HEREIN WITHOUT ANY PREJUDICE OR ANY SHORT OF PLEA WILL NOT BE CONSIDERED EXCEPT ANY INCIDENT OCCURRED "BY ACT OF GOD" OR NON READINESS OF SITE BY ANY MEANS MAY BE CONSIDERED ONLY.**

12. **Penal Measure:** Time being the essence of the contract, failure to supply the materials within due time or delay in installation and commissioning of the materials shall invite penalty.
  - I. **Liquidated damages of 0.5%** per day subject to a maximum of 10% of the total cost of materials shall be charged if goods are not delivered installed or commissioned in time and the amount will be deducted from the Security Deposit and bills submitted by the supplier.
  - II. For violation of any terms and conditions of the contract the Bhagirathi Milk Union reserves the right to cancel the contract without assigning any reason thereof. On termination of Contract the Security Deposit will be forfeited and the resultant loss shall be recovered from the company. The subsequent company will be blacklisted for 3 years.
13. **Loading and Unloading** of goods is the responsibility of the supplier. If the Milk Union makes its own arrangement for the unloading of the materials the respective cost of the same shall be deducted from the bidder.
14. **Documentation:** Complete documentation like principal warranty papers, operation manuals, document of technical specifications and guarantee cards have to be furnished by the supplier. Failure to submit any of the above document in hard copies at the time of supply of the materials shall lead to non-acceptance of the material.
15. **Delivery, Installation and Commissioning:** The materials must be delivered in the Office of The Bhagirathi Cooperative Milk Producers' Union Ltd. Feeder Dairy, Panchantala, Berhampore, Murshidabad, Pin-742101, West Bengal. The installation and commissioning of the Unit shall be across the DCSs of Murshidabad District. Delivery installation and commissioning must be complete within 60 days.
16. **Standards:** The Goods supplied under this Agreement shall conform to the standards mentioned in the Technical Specifications and when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin.
17. **Registration of Goods:** If required under the Applicable Law, Goods supplied under the Agreement shall be registered for use in India.
18. **Patent Rights:** The Supplier shall indemnify the Purchaser against all third party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
19. **Packing:** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Purchase Order.



20. **Incidental Services:** Following incidental services are required, the price of which will be quoted by the Suppliers in the BOQ sheet in the **Annual Maintenance Contract** cell in the Financial Bid.
- a) Annual Maintenance for the supplied Goods, for a period of 3 years. This service shall not relieve the supplier of any warranty obligations under this agreement.
  - b) Training of the Purchaser's personnel, at the Purchaser's site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.
  - c) AMC includes "onsite comprehensive maintenance which includes replacement of defective components with new ones, free of cost. Burnt components and items damaged due to sheer negligence in handling by the DCS personnel or by the official of the Milk Union shall not come under this clause. Minimum one preventive visit per quarter and visit as and when the equipment is under breakdown within 24 hours.
21. **Termination for Default** The Purchase, without prejudice to any other remedy for breach of the Agreement, by written notice of default sent to the Supplier, may terminate this Agreement in whole or in part:
- a) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Purchase Order, or within any extension thereof granted by the Purchaser; or
  - b) If the Goods do not meet the Technical Specifications or registration requirement (if any) stated in the Agreement; or
  - c) If the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, in competing for or in executing the Agreement; or
  - d) If the Supplier fails to perform any other obligation(s) under the Agreement.
22. **Termination for Insolvency:** The Purchaser may at any time terminate the Agreement by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent.
23. **Termination for Convenience:** The Purchase, by written notice sent to the Supplier, may terminate the Agreement or the Purchase Order, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Agreement or Purchase Order is terminated, and the date upon which such termination becomes effective. The Goods that are already supplied before the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the terms and prices described in the Agreement and the Purchaser order.
24. **Dispute Resolution** Any dispute arising out of the Agreement, which cannot be amicably settled between the parties, shall be referred to adjudication/arbitration in accordance with the Arbitration and Conciliation Act of 1996 of India. The venue of adjudication/arbitration shall be Kolkata. The language of arbitration shall be English.

25. **Applicable Law:** The Agreement shall be interpreted in accordance with the laws of Union of India.
26. **Force Majeure:** If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) neither party shall have any claim for damages against other in respect of such non-performance or delay in performance.
27. The undersigned reserves the right to accept or reject any tenders and to cancel the entire tender process without assigning any reason whatsoever.

**Sd/-**  
Managing Director  
The Bhagirathi Cooperative  
Milk Producers' Union Limited

**Annexure – I**

**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 Bhagirathi Cooperative Milk Producers' Union Ltd. 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 Bhagirathi Cooperative Milk Producers' Union Ltd and agree(s) to furnish such information/clarification within SEVEN Days from the date of receipt of such request from The Bhagirathi Cooperative Milk Producers' Union Ltd.
6. I/We agreed to execute a formal Agreement embodying the terms & conditions of the said online tender and the General Terms & Conditions.

**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)**

**BU:DAIRY:RKVY(21-22):2065/(4)**

**Dated: 17.11.2021**

Copy forwarded to:

1. E-Procurement portal of Govt. of West Bengal (<https://wbtenders.gov.in> )
2. NDC, MSD & OC BCMPUL with a request to publish the Tender to District Website (<https://murshidabad.gov.in>) through DIO, NIC.
3. Official Website ( [www.bhagirathimilk.com](http://www.bhagirathimilk.com))
4. Office Notice Board

**Sd/-**  
Managing Director  
The Bhagirathi Cooperative  
Milk Producers' Union Limited