

**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT SIRONJA,  
SAGAR (M.P.) 470004**

AN ISO 9001: 2015, ISO 22000:2005 Certified Organization

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Ref No: 144/IM/BKDS/SAGAR/2021

Dated: 08.05.2021

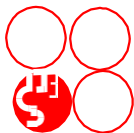
**E-TENDER NOTICE (1<sup>st</sup> call)**

Online e-tenders (Two Bid System) are invited from Manufacturer/Suppliers for supply & installation of Dairy related Lab electronics Equipment's, Automatic Milk Collection Unit (AMCU) With External Printer & Milk Analyzer. The tender notice, tender documents, containing the terms and conditions can be purchased online & downloaded through following website <http://www.mptenders.gov.in> from 09/05/2021,12:00PM onwards up to 29/05/2021 at 02.00PM. The tender will be submitted from 09/05/2021, 1:00PM onwards up to 29/05/2021 at 05.00PM. The tender will be opened on 31/05/2021 at 04. 00PM.The detailed Tender Form can be seen (only for reference) at our H.O website: [www.sanchidairy.com](http://www.sanchidairy.com)

For digital Signature please contact M.P. State Electronic Development Corporation Ltd., Area Hills, Bhopal on toll free no. 18002588684.

Corrigendum/Amendment if any to this publication would appear only on the above-mentioned websites and will not be published elsewhere.

**CHIEF EXECUTIVE OFFICER**



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The tender notice, tender documents, containing the terms and conditions can be purchased online & downloaded through following website <http://www.mptenders.gov.in>

**E-TENDER FOR SUPPLY OF ELECTRONICS LAB EQUIPMENT**

**TENDER DOCUMENT**

Schedule I	:	General Terms & Conditions.
Schedule-II	:	Specifications
Schedule III	:	Technical Bid
Schedule IV	:	Form A & Form B
Schedule IV	:	Price Schedule
Tender Cost	:	Rs.1000/-(Rupees one thousand only)
EMD	:	Rs.70000/-
Tender Document Download/Sale Start Date	:	09/05/2021 Time 12:00 PM Onwards
Tender Document Download/Sale End Date	:	29/05/2021 Time 02:00 PM
Bid Submission Start Date	:	09/05/2021 Time 1:00 PM Onwards
Bid Submission End Date	:	29/05/2021 Time 05:00 PM
Bid Opening Date	:	31/05/2021 Time 04:00 PM
Place of opening of Tender	:	Office of the Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar.
Address for Communication	:	The CEO, Bundelkhand Sahakari Dugdh Sangh Maryadit , Sagar 470004.

**CHIEF EXECUTIVE OFFICER**

## **SCHEDULE - I**

### **General Terms & Conditions for tender submission & material supply**

Bundelkhand Sahakari Dugdha Sangh Mydt, Sagar (BKDS), an ISO certified cooperative organization, invites e- tender (Two Bid System) from manufacturer/suppliers for supply of Dairy related Lab electronics Equipment's, strictly in adherence to the detailed specifications given in the schedule II of the tender documents.

CEO Bundelkhand Sahakari Dugdha Sangh Mydt., Sagar reserves the right to accept or reject any or all tenders, which in their opinion justify such actions, without further explanation to the tenderers.

#### **1.0 DECLARATION:**

The submission of a tender by a tenderer implies that he/she has read the notice and conditions of the tender and the terms and conditions of contract and has made himself/herself aware of scope and specifications of the supplies to be made and the destination where the supplies have to be made and satisfied himself/herself regarding the quality and specifications of the articles.

#### **2.0 TENDER SUBMISSION:**

- 2.1** Tenderer should have at least past 3 years of experience in the supply of AMCU to Co-operative Dairies. Such Tenderer shall be eligible for participating in this tender.
- 2.2** Tenderer should supply DOT Matrix Printer, Electronic Weighing Scale & Milk Analyzer separately. Intact device shall not be accepted.
- 2.3** Tenders received by e-mail will not be considered. However, amendments by e-mail to a tender sent will be considered, provided the same are received before the opening of the tender and confirmed by post.
- 2.4** Individuals signing on the tender and other related documents must specify in which capacity of the firm he/she has signed the documents. (copy to be uploaded –mandatory)
- 2.5** The tenderer(s) should clearly state in their offer the address, telephone, fax, e-mail. Any change in the address should immediately be communicated to the Chief Executive Officer, Bundelkhand Sahakari Dugdh Sangh Mydt, Sagar and correspondence thereafter will be made at the changed address.
- 2.6** Negligence on the part of tenderer in filling the tender form offers him/her no right to withdraw the tender after it has been opened.
- 2.7** The acceptance of the tender and award of the purchase order will be the sole right of the Chief Executive Officer, Bundelkhand Sahakari Dugdha Sangh Mydt. Sagar who does not bind himself to accept a tender in whole or in part or reject any or all the tenders received without assigning any reasons and no explanation can be demanded of the cause of rejection of the tender by any tenderer.
- 2.8** The Chief Executive Officer, BKDS SAGAR reserves the right to place order for whole requirement with any tenderer or split the orders among one or more tenderers or not to purchase at all any item even after rate approval.
- 2.9** Each tender should be accompanied with copy of PAN, Income Tax Return of last two financial years, GST and without which the tender may not be entertained. (copy to be uploaded –mandatory)
- 2.10** The Tenderers should submit the tender rates in the Schedule IV only. The conditional tenders are liable to be rejected.
- 2.11** No person or firm is permitted to submit more than one tender under different names.
- 2.12** The tenderer shall not sublet the contract or assign to any other party or parties, the whole or any portion of the contract without prior written permission of Chief Executive Officer, BKDSM during the supply.
- 2.13** Tenderer shall fill all the details of the unit in the enclosed form- A in schedule-III. (copy to be uploaded – mandatory).
- 2.14** Demonstration of articles available with the firm shall be arranged by the tenderer at his own cost, whenever requested by Bundelkhand Sahakari Dugdha Sangh Mydt.
- 2.15** Manufacturers will be given preference. Copy of license is to be attached with tender for each item filled in, wholesalers dealing with the item will have to attach copy of authorization certificate of the manufacturer. (copy to be uploaded –mandatory).

#### **3.0 EARNEST MONEY DEPOSIT:**

- 3.1** All the tenderers are required to deposit Earnest Money Rs.70000/- on line. As the tender will be finalized the unsuccessful tenderers will get back the EMD from MP TENDERS (as per their norms) on line.

Submissions of earnest money by any other mode than specified above shall not be acceptable and the related tender shall not be eligible for consideration.

- 3.2 The earnest money deposit of the successful tenderers will be released on completion of supply/work as the case may be within the stipulated period without any interest.
- 3.3 No interest will be paid on the earnest money for the period during which (the EMD) lying in deposit with Bundelkhand Sahakari Dugdha Sangh, Maryadit.

#### 4.0 **PRICES:**

- 4.1 Rate should be quoted for the material as per the specifications given in the schedule II of the tender document. In case of any doubt as to the meaning of any of the terms & conditions or the specifications, the tendering firm may set forth the particulars thereof and submit them to the Bundelkhand Sahakari Dugdha Sangh Mydt, in writing that such doubts may be removed before submitting the tender.
- 4.2 Prices offered by the tenderers should be firm, free from all escalations and unconditional and shall be valid at least for a period of 12 months from the date of approval of rates. We would communicate our rate approval within 30 days of opening of tender.
- 4.3 The Tenderer should quote rate on F.O.R Dairy Plant Sagar basis.
- 4.4 The tender should clearly specify whether rates quoted are inclusive or exclusive of GST.
- 4.5 If needed, negotiations will be done for prices and as well as terms & conditions of material supply only with the party which offers the lowest rate.
- 4.6 The prices charged for the material supplied under the contract by the supplier firm in no event shall exceed the lowest price at which the supplier firm sells the material of identical tender description to any other persons/ firms during the period and until the execution of all supply orders placed during contract period.
- 4.7 The lowest rate shall not be the only criteria for approve the tender.
- 4.8 Conditional Tenders are liable for rejection.

#### 5.0 **MODE OF DESPATCH:**

- 5.1 The material to be supplied by qualified firm shall be dispatched to the dairy under prior intimation. Depending upon the type of material, the supplier shall have to carry out proper packing/crating to avoid damage during transit.
- 5.2 Wharfage /Demurrage etc. on account of incorrect or delayed delivery/dispatches of material/documents must the responsibility of supplier and shall be recovered from the bills.

#### 6.0 **ELIGIBILITY CRITERIA**

- 6.1 Tenderers should submit supplier's List with contact detail / Purchase order copy/performance Report of past 3 years.
- 6.2 Maximum experience in dairy co-operative industry will have advantage for performance in tender opening as well as tenderers should have supplied at least 200 systems successfully in each of the years 2016-17 2017-18 2018-19 & at least 1000 no's cumulative in any cooperative dairies/institutions.
- 6.3 The tenderers should submit copy of IT Return for Last Two years.
- 6.4 The tenderers should submit copy of PAN Card.
- 6.5 The tenderers should submit Filled Form-A & attached related document as per Form A.
- 6.6 The tenderers should submit EMD (online).
- 6.7 The tenderers should submit copy of Firm Registration certificate.
- 6.8 The tenderers should submit proof for they have strong service network in Madhya Pradesh to provide installation, training and onsite after sale service at village DCS level.
- 6.9 Manufacture/Channel Partner/OEM Authorization Certificates/License for each item is to be attached
- 6.10 with tender documents.

**(Note: - Above required documents should be submitted along with proof of EMD deposit physically in addition to online submission before the tender submission end date & time at BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, SIRONJA-SAGAR (M.P)-470004.)**

## **7.0 LIQUIDATED DAMAGES:**

- 7.1** The time period and the date of delivery of the material stipulated in the purchase order shall be deemed to be the essence of the contract. Once firm delivery date(s) are fixed for supply of material they shall be strictly adhered too. In case they are not followed, or in case of delay in execution or non-execution of the order, the Dugdha Sangh reserves the right either to cancel the order and make alternative purchases from other sources, at the risk and cost & expenses of the defaulting supplier. In case the supplies are not affected as per the schedules, the liquidated damages may be charged on the goods not so delivered as under:-

S. No.	Duration of delay	Liquidated Damages
1.	Up to 15 days	1% cost of the unit.
2.	Between 16 to 30 days	2% cost of the unit
3.	Beyond 30 days	Up to 5% cost of the unit.

- 7.2** If the qualified tenderer fails to make supply as per purchase order without any valid reason, the order would be treated as cancelled and the firm may be blacklisted for future dealings and EMD also would be forfeited by the management.
- 7.3** If the qualified tenderer fails to make supply the materials as per specification/material quality, BKDS Sagar will have right to purchase materials from the other bidders whom participated in the same tender and willing to supply the material on L-1 approved rates for which BKDS will take the consent of other bidders too.

## **8.0 INSURANCE:**

Insurance is to be arranged by the tenderer.

## **9.0 INSPECTION:**

- 9.1** All the materials supplies are subject to inspection at our stores before acceptance. If goods are rejected due to defective or wrong supply, the report of our authorized official in this respect shall be FINAL and no correspondence on the subject would be entertained. If the material is not found as per specification of the tender. The consignment will be rejected. Supplier will be informed regarding rejection by post /e- mail supplier should attend this office within 15 days of the receipt of intimation so that the material could be rechecked in his presence. If the supplier doesn't attend this office on time then the material will be returned at his own risk/cost by BKDS Sagar. No payment shall be made against the rejected materials.
- 9.2** Sample of the articles should be sent/produced before the competent authority if asked for within 3 days or as mutually agreed.
- 9.3** Bidders have to submit their customers list along with the performance report of consignee is compulsory.

## **10.0 PAYMENT:**

- 10.1** 70% against delivery of machine/equipment's in good condition at site and after physical inspection and verification by concern department.
- 10.2** Balance 30%, within 30 days of after commissioning and successful trial run of machine/equipment's at site.
- 10.3** Tenderer agreeing to these terms would be given preference over those specifying other terms.

## **11.0 WARRANTY**

All the Supplied items shall be warranted for three year.

## **12.0 TERMINATION OF CONTRACT:**

If any act of commission or omission of a unit under contract brings Bundelkhand Sahakari Dugdha Sangh Mydt. To dispute, then the Milk Unions shall be competent to debar/blacklist the unit from further business.

## **13.0 CONSEQUENCES OF BREACH OF AGREEMENT:**

If any firm under the contract commits breach of any of the conditions, it shall be lawful for the Chief Executive Officer, Bundelkhand Sahakari Dugdha Sangh Mydt. To cancel the contract and to purchase material from any other alternate sources on the risk and cost of the defaulting unit.

**14.0 DISPUTE ARBITRATION & FINAL AUTHORITY:**

**14.1** It should be clearly understood that in the event of a successful tenderer failing to accept and execute the supply order, then decision of the Chief Executive Officer, Bundelkhand Sahakari Dugdha Sangh Mydt., in this respect will be final and binding on the successful tenderer.

**14.2** For all matters of dispute, the decision of the Honorable Chairman, Bundelkhand Sahakari Dugdha Sangh Mydt. Under Arbitration and Conciliation Act. 1996 shall be final and binding on all the concerned.

**14.3** For all disputes, the venue for legal course shall be at Sagar

**14.4** If the tender opening date become any govt. holiday then the next day may considered for tender opening.

**15.0 Quantity:**

At present 50 Nos. which may be increased, it depends on availability of funds.

***Chief Executive Officer***  
**Bundelkhand Sahakari Dugdha Sangh Mydt.Sagar**

## **SCHEDULE - II**

### **Technical Specification of Automatic Milk Collection Unit**

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

The Unit should be suitable for instant weighing of milk, measuring fat & SNF content, calculating the amount payable to the member based on FAT and/or FAT & SNF weight, printing the amount calculated thereof with member identification details. The Unit shall also be used for maintaining the main records of the collection center together with the details of milk business transactions of the BMC Centre /MCC.

The Unit should be able to measure milk component contents viz. fat from 0.5% to 12% and SNF from 6% to 12% and able to weigh milk up to 60 kg per batch at a time. This should process approximately 70 samples of milk per hour.

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

The AMCU specs detailed below are minimum required specification. The vendor has to provide for all the components/ tools/ 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.

##### **Operating Environment:**

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

- Power supply : 160 to 260 V AC  $\pm 10\%$ ; 50 Hz  $\pm 1\%$  | 12 V (DC)
- Ambient Temperature : 5 - 50° C
- Relative Humidity : 50% to 95 %

##### **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. Integration with any ERP or existing software will be managed by supplier. Supplier needs to provide all the required support in integration with ERP or any existing software.

**Warranty:** All the components included in the AMCU shall be warranted for 3-year comprehensive warranty from date of supply except Burnt & broken items are not covered. The supplier should also provide Annual Maintenance Contract warranty period on chargeable basis, if felt necessary by the purchaser.

**Training-** Comprehensive training for 2 days in classroom & Hands-on training for 4 shifts of milk collection on all operational aspects of the milk analyzer and other AMCU components to BMC Center I MCC staff at Village level and other officers of the Milk Union between 1st & 2nd month of installation refresher training in group shall be imparted at a nodal location.

**Operational & Cleaning SOPs** (including leaflet on troubleshooting) - Provide laminated wall chart indicating important steps involved in operation & cleaning of the Milk Analyzer for displaying in BMC Center/ MCC.

### 3. Scope of Work:

- This is a complete job for supply, installation, testing and commissioning of the AMCU system which can collect all milk collection data at DCS level.
- The Unit should be suitable for instant weighing of milk, measuring fat, SNF & water content, calculating the amount payable to the member based on fat, SNF& weight, printing the amount calculated thereof with member identification details.
- Integrated unit shall consist of System to accept data from electronic Weighing Scale, Milk analyzer & Milk producer detail manually entering, process milk billing & write processed data on pen drive or print in report format.
- Automatic tare option for Weigh Scale to allow multiple entries of can by any single member.
- System should be able to capture data from electronic weighing scale and milk analyzers which can transfer data through RS-232 serial port
- System must be easy to operate, safe and secure and prevented from unauthorized access.
- Comprehensive warranty for Three years.
- Ensure proper and accurate functioning of all the components of the AMCU and impart training to the operating staff in operation, maintenance and routine check till the operating staffs are confident in operation and routine maintenance.

1	AMCU Computer Hardware & Software	Model of PC offered should be of Enterprise/Business Class, Desktop PC OEM. Home/SMB class Desktop PC shall not be accepted. PC or IoT Device (Rest peripherals and its integration shall remain same) as per below specifications.
	Processor	7th Generation Intel Core i5 , 6 MB Cache, 64 bit, 4 Core Processor with Turbo Boost technology
	Form Factor	Tower Model
	Memory	4 GB DDR3 1333 MHz SDRAM expandable 8GB
	Internal Storage	1TB SATA II Hard Disk Drive
	Removable Media	DVD+/- RW Writer
	Graphics	Integrated Intel HD Graphics supporting 1600*1200 resolutions
	Audio	Integrated high-definition audio
	Network	10/100/1000 Mbps Gigabit Ethernet
	Display Monitor	18.5" wide screen LCD/LED Backlit TFT Color HD Monitor with 1366*768 native resolutions or above
	Input Devices	USB standard keyboard and USB optical 2 button scroll mouse with pad
	Ports & Connectors	2 Serial port, 1 VGA port, 1 Microphone/Headphone jack, 1 RJ45 ports
	USB Ports	6 USB 2.0 ports (Min. two on front and two on rear side) or above
	PCI Slots	Minimum 1 Free PCI Slots
	Compatibility	Windows 8/Windows 7 /Windows 10/ 2008/2012 or Equivalent above
	Operating System	Licensed Windows 10 Professional 64 bit preloaded with OS Recovery Media Driver CD or as pre-required.



	Anti-Virus	Norton/ Symantec, eTrust, MacAfee, Trend Micro, Quick Heal latest version with 1 year {One Year} license.
	Warranty Obligation	Call should be attended by next business day. Problem resolved within 24 hours of attending the call. Within 72 hours in case any part is to be replaced.
	Brand of PC	HP/ Dell/ Acer/ Lenovo or equivalent brand (Assembled PC not allowed)
	Interface	Data capture device should be able to interface with Milk Analyzer, Electronic weigh scale, Remote display unit, external printer, pen drive, barcode scanner.
	Data Transfer	Provision of manual transfer of data in encrypted form should be possible through pen drive, Provision to transfer data online in areas with poor network strength or no network
	Data Encryption	Data copied to or from Pen Drive for manual cloud upload must be encrypted so that it is protected from manual changes. AES 128 bits encryption must be used.
	Major Function Required	<ul style="list-style-type: none"> <li>Automatically capture Fat and SNF data from Milk analyzer quantity data from Weighing scale</li> <li>Provision to enter collection data manually</li> <li>Auto tare option for weighing scale/dump tank is required</li> <li>Cleaning record of Milk Analyzer should automatically be captured</li> </ul>
		<ul style="list-style-type: none"> <li>Provision to enter rate chart through Pen drive</li> <li>Provision to transfer collection data through Pen drive in encrypted format</li> <li>Provision to send shift summary collection record SMS alert should be</li> <li>Provision to generate reports based on shift, period, and member wise</li> <li>User authentication for operator login should be provided</li> <li>Selection of cattle type should be provided in data capturing device</li> </ul>
	Consumables & Accessories with each unit	<ul style="list-style-type: none"> <li>Interface cable for pen drive</li> </ul>
	<b>IoT Device</b>	
	Processor	Quad core Cortex A7 CPU 1.5 GHz
	Chipset	All winner A50
	Memory	2 GB DDR3
	Internal Storage	16 GB
	Network	4G Compliant
	Display Monitor	10.1" 1280*800 IPS
	Input Devices	Wireless Keyboard
	Port & Connectors	5V charging port
	USB Ports	1* USB 2.0 expandable to 8 ports
	Compatibility	Any RS232 port/USB ports
	Operating System	Secure Build of Google Android 9.0
	Anti-Virus	System protection against non-approved apps and data communication
	Processor Feature	Unit must be built with Industry Standard Microprocessor/Micro controller with in-built gateway or external provided gateway to communicate with Cloud.

	Application Software Interface	AMCU
		Data capture device should be able to interface with Milk Analyzer, Electronic weigh scale, Remote display unit, external printer, pen drive, barcode scanner.
	Real Time Clock	Provided with inbuilt battery up to 3 hours power back up
	GPRS	A suitable GPRS modem to connect to a GSM network (4G) and Wi-Fi should be provided
	GSM	Should be able to connect to GSM AND Wi-Fi network to send data in real-time to centralized cloud and cloud should be able to send collection SMS
	Access Control	Data capture device should have separate access control for different users <b>Operator user:</b> Can only do regular collection process <b>Manager user:</b> Can do configuration
	Data Transfer	Collection data should be updated through GPRS and Wi-Fi connection shift wise, Provision to transfer data online in areas with poor network strength or no network Provision of manual transfer of data in encrypted form should be possible through pen drive
	Rate Chart	Rate chart should be updated through GPRS and Wi-Fi connection Additional provision for manual import of rate chart should be possible through pen drive in encrypted form Rate chart should be of matrix type/CC/BMC type There should be provision to upload at least two rate chart simultaneously based on milk type (Cow or Buffalo)
	Security	Unauthorized applications must not be installable on the system. Data usage for accessing unauthorized websites or applications must not be allowed.
	Data Encryption	Data copied to or from Pen Drive for manual cloud upload must be encrypted so that it is protected from manual changes. AES 128 bits encryption must be used.
	Remote Configurations	The system configuration must be changeable remotely over the GPRS AND Wi-Fi networks from the cloud server.
	Software Upgrades	Automatic Software Upgrades must be possible for the applications over the GPRS AND Wi-Fi network from the cloud server.
	Major Function Required	<ul style="list-style-type: none"> <li>• Unique ID for each member capturing given by dairy</li> <li>• Automatically capture Fat and SNF data from Milk analyzer quantity data from Weighing scale</li> <li>• Provision to enter collection data manually</li> <li>• Auto tare option for weighing scale/dump tank is required</li> <li>• Cleaning record of Milk Analyzer should automatically be captured</li> <li>• Provision to enter rate chart through GPRS, WIFI and Pen drive</li> <li>• Collection data should automatically be transferred through GPRS AND WIFI to the cloud.</li> <li>• Provision to transfer collection data through Pen drive in encrypted format</li> <li>• Provision to send Collection record SMS alert to members</li> <li>• Provision to send shift summary collection record SMS alert should be there</li> <li>• Provision to generate reports based on shift, period and member wise</li> <li>• User authentication for operator login should be provided</li> <li>• Selection of cattle type should be provided in data capturing device</li> <li>• Should operate on wireless module without requiring any isolation cables</li> </ul>

		for Milk analyzer, Weighing scale, RDU and Printer. •Should be able to transfer data to Cloud in case of poor network signal or no network signal
	Consumables & Accessories with each unit	<ul style="list-style-type: none"> <li>Interface cable for Handheld scanner and pen drive</li> <li>External antenna to be provided with each unit for capturing data and sending to cloud even in low signal areas</li> </ul>
	Cloud & SIM	Cloud/SIM service shall be included till the end of warranty period
	Warranty Obligation	<ul style="list-style-type: none"> <li>3 years comprehensive warranty for software and hardware</li> <li>Calls shall be attended within 24 -72 hrs.</li> </ul>
2	<b>Electronic Weigh Scale (EWS)</b>	
	Functional Requirement	To Weigh electronically milk quantity in Ltr. /Kg, Display Quantity digitally & online data transfer
	Model Approval	Weighing scale to meet all latest requirements of Indian government's Weigh and Measurement Department & Manufacturer to have their model approval. The weigh scale should confirm to provision of "Standard of weigh and measures (General) Rules, 1987 (Medium Accuracy III). Electronic Weigh Scale should be duly certified and stamped by weight and measure department and confirm in to IS:229281 (pt.1&2) 1979, IS 9281:1981 and IS 9281 (pt4) 1983 as amended up to date.
	Capacity	200 Kg
	Least Count	20 gms
	Weight Accuracy	20 gms as per standards of W& M Rules 1987 medium accuracy class III
	Display resolution	1/10000 (accuracy class III)
	Load Cell	<p>Single, IP67 grade SS of certified &amp; approved make. The load cells should be compensated against variations in temperatures in the range of minus 10 deg. C to + 50 Deg. C.</p> <p>The load cells should have minimum IP 67 protection. The load cells should have "type test" certificate as per IS 9281 from Electrical Research and Development Association (ERDA). Vadodara/Electronic Test &amp; Development Centre (ETDC), Indore/ Electronic Regional Testing Laboratory, Mumbai/Delhi/ Electronic&amp; Quality Development Centre (EQDC), Ahmedabad/Delhi/ or Regional Reference Standards Laboratory (RRSL) Bangalore.</p>
	Overload & Shock load protection	300% to take impact loading with audio(beep) visual indication
	Platform Type Plate	Size 600x600 mm
	Platform MOC	AISI SS 304 1.6 mm thick ,150 grit top plate.
	Platform under frame material/design	<p>Mild Steel box of adequate size.</p> <p>All screws /bolts /nuts to be of SS</p>

	Indication in display EWS unit	Quantity 7 segment red LED ,6 digits, min 13mm height, display for mode of operation - 0, tare, KG/Liter., by default KG
	Display unit mounting	Pole mounted type with sturdy base and SS 304 ,38 mm dia. pipe -1.2m high ABS body IP55, Tactile switch keys with feedback response, auto calibration and auto span with drift correction RS232 serial port with protocol to meet requirement of IBM compatible.
	Calibration protection & Sealing Arrangement	Special arrangement to house PCB & sealing arrangement Password protection at user end
	Load cell cable	Load cell cable from 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 Certificate	Manufacture to have model approval certificate of regulatory authority /Govt of India (Weight & Measure Unit) Electronic Weigh Scale should be duly certified and stamped by weight and measure department and confirm in to IS:9281(pt.1 & 2) 1979, IS 9281:1981 and IS 9281 (pt4) 1983 as amended up to date
	Stamping at Site	Supplier shall arrange stamping of each weigh scale at site from local weight & Measure inspector before installation. Supplier should include the cost of stamping in the unit rate of AMCU Only for the first year
	Make	Essae Taeroka/ Avery India.
<b>3</b>	<b>Milk Analyzer –</b>	
	Functional Requirement	To test & display digitally Fat, SNF & added water of milk sample Electronically. The construction of Stirrer shall be SS 304 may prefer.
	Type	Ultrasonic principle-based milk analyzer for testing fat, SNF and added water Measuring Parameters: Fat- 0.5 to 12% with accuracy +/- 0.1% with Resolution: +/- 0.01% and Repeatability: +/- 0.05%. SNF- 6.0 %to 12% with accuracy +/- 0.2% with Resolution: +/- 0.01% and Repeatability: +/- 0.05%. Added Water to Milk - 0 - 60 % with accuracy +/- 5%(Calculated) Measuring Cycle- 40 Sec per sample (maximum) Average Speed- 70 samples/hour (minimum)
	Operation Facilities	Mode selection for type of milk -(1)- Cow, Buffalo, Mixed / Single Curve with cleaning /calibration /system error list etc.
	MoC for enclosure	SS304

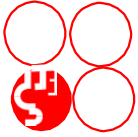
	Loose Accessories	Rs 232 serial cable -1 no AC power cable with plug top -1 no measuring mugs -2 no daily cleaning solution - num of bottle 2(qty min 200 ml or equivalent) weekly cleaning solution - num of bottle 2 (qty min 200 ml or equivalent)
	Manual	Operating manual each in English & local language per AMCU supply
4	<b>Ultrasonic Processor (UP) STIRRER –</b>	
	Functional Requirement	To remove air from fresh milk sample by vibrations created in the milk before testing of milk
	Type	Tabletop, Ultrasonic stirrers ball type
	Frequency	20-25 kHz
	Timer	1-99 sec selectable
	Environment	Suitable for dusty/humid village environment operating temperature - 5 to 50 Degree 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 enclosure	MS Powder Coated, 1.2 mm thick minimum
	operating voltage	12 v DC /230 V +/- 10 AC, 50 Hz
5	<b>Remote Display Unit (RDU)</b>	
	Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters in English/Local Language
	Type	Wall Mounted
	Display Parameter	Members code -4 digits Cattle type - 1 character Milk Weight - 4 digits Fat % -4 digits SNF - 4 digits Rate in Rs -5 digits Amount in Rs -6 digits generally to meet need of users
	Interface	Rs-232/USB
	Display type & size	7 Bright Segments, RED/Green LED, at least 15mm height
	Labels for display	Screen printed
	Environment	Dusty Humid, preferably housing to be in IP %% or equivalent protection rust proof powder coated metallic
	Connecting Cables	Minimum 5 m power cable with plug top with connector at both ends
6	<b>Printer (PR)</b>	
	Print Method	Impact Dot Matrix Printer
	Pin Head	9 pins
	Print direction	Bi-direction parallel interface USB 2.0(Full Speed)
	Print Speed	300 cps high speed drafts, LQ and other features

	Printable Column	40/80
7	<b>UPS</b>	
	Capacity of UPS	715 VA with minimum 3 hours Backup in case of IoT Device and 1.5 KVA with minimum for PC
	Voltage at input	160 Volts to 280 Volts
	Voltage at Output (With mains as well as with battery ) with in-built AVR	220 +/- 10%
	Full Protection	Under /Over Voltage, Low battery Voltage, overload, Short-circuit, No load, protection against spikes.
	Performance Efficiently	85 % & above
	Frequency Stability	50Hz+/-0.005
	Operating Environment	Temp.5 Deg. C to 50 Deg. C, 90% RH, Dusty
	Back up time (full load)	3 hrs. minimum in one shift
8	<b>Battery</b>	
	Type	Industrial Tubular Lead Acid low maintenance suitable for SPV Rating: 1 No 100 AH for IoT Device and 2 No 100 AH for PC
	Battery Charging	Boost Charging at min 7A
	Protection	In-Built Protection <ul style="list-style-type: none"> <li>- Under/Over Voltage</li> <li>- Short Circuit</li> <li>- Overload Cut Off,</li> <li>- Low Battery Cut Off,</li> <li>- Surge Cut Off</li> <li>- Low Battery &amp; Overload LED indicator</li> <li>- Battery Charging Indicator plus low battery/fault indicator to be provided002</li> </ul>
	Operating Environment	Temp 5- 50 Deg C RH-90% non-condensing, Dusty Environment

**SCHEDULE-III**

**Technical Bid**

<b><u>Sr.no.</u></b>	<b><u>Item</u></b>	<b>AS PER</b>	<b><u>YES/NO</u></b>	<b><u>REMARK</u></b>
1.	Supply & Installation of AMCU with DOT Matrix Printer, Milk Analyzer, Electronic Weigh Scale, REMOTE DISPLAY UNIT (RDU), Ultrasonic Milk Sample Stirrer, Power Back-up Solution	<b>TECHNICAL SPECIFICATION IN SCHEDULE -II</b>		



**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT SIRONJA,**

**SAGAR (M.P.) 470004**

**AN ISO 9001 : 2015 Certified Organization**

**E-mail: sanchimccsagar@gmail.com**

**Phone 07582-281345**

**SCHEDULE – IV**

**(To be submitted along with the offer)**

**Form – A**

Chief Executive Officer

Date :

BKDS,

Sagar

Dear Sir,

I/We hereby furnish below some particulars about our company/unit which will form a part of our offer submission :

1. Name of the Co./Unit : \_\_\_\_\_
2. Address of the Co./Unit : \_\_\_\_\_  
\_\_\_\_\_
3. Telephone Nos. (with STD Code): \_\_\_\_\_  
Mobile No. : \_\_\_\_\_  
FAX No. : \_\_\_\_\_  
Email ID : \_\_\_\_\_
4. Name of the CEO/Proprietor/ Partner : \_\_\_\_\_
5. Name and designation of other : \_\_\_\_\_  
Authorized signatory of the Co./  
Unit.
6. Particulars of Regn. Certificate as a Manufacturer  
Issued by the competent authority  
(Regn No. & Date) (Enclosed Copy) : \_\_\_\_\_
7. GST NO. \_\_\_\_\_ dated \_\_\_\_\_
8. Details of PAN CARD (Enclosed Copy): \_\_\_\_\_
9. Income Tax return (Enclose Copy): \_\_\_\_\_
10. Name of Bank & RTGS/NEFT No.: \_\_\_\_\_  
Enclose cancelled cheque: \_\_\_\_\_



11. Have your Co./Unit or its sister concern ever been black listed/ debarred by BKDS Sagar or its sister Milk Unions or GOI /GOMP & its undertaking ? YES / NO
- 12 If Yes, when & Why? Give reason in details.

I/WE HAVE READ THE TERMS AND CONDITIONS OF THE TENDER DOCUMENT. WHICH ARE ACCEPTABLE TO ME/US.  
NO ADDITIONAL CONDITION.DEVIATION OR POINT OF DIFFERENCE HAS BEEN GIVEN BY ME/US.  
I AM PROPRIETOR / M A N A G E R / DIRECTOR\_\_\_\_\_ OF THE TENDERING FIRM AND HAVE BEEN  
AUTHORISED TO SUBMIT. THE AUTHORITY LETTER IN THIS REGARDS IS ENCLOSED HEREWITH.

DATE:

SEAL AND SIGNATURE OF TENDERER

NAME OF SIGNATORY

DESIGNATION

**Seal & Signature of the  
Authorized Signatory of the Co./Unit**

**SCHEDULE IV**

**(To be submitted along with the offer)**

**Form B**

**CHIEF EXECUTIVE OFFICER**

**Date:** \_\_\_\_\_

**BKDS, SAGAR**

Dear Sir,

I/We furnish here below more particular about our Company/Unit which will form a part of our Tender rate submission against your Tender Notification No. \_\_\_\_\_ Dated \_\_\_\_\_:

1. Items manufactured at our Unit : \_\_\_\_\_

2. Capacity of the Plant : \_\_\_\_\_

3. Is there any break in your production/  
business activities during the past 5 : \_\_\_\_\_  
years period? If so, give details thereof.

4. Your customers/client on current list : 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_

5. Have/Are you supplied/supplying :  
items of similar nature to any Dairies  
under coop. sector? if yes to whom  
and how long?

I/We hereby undertake that information furnished in the Tender documents are correct to the best of our knowledge and belief.

**Place:**

**Date:**

**Seal & Signature**



**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT SIRONJA,**

**SAGAR (M.P.) 470004**

**AN ISO 900 : 2015 Certified Organization**

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**Phone 07582-281345**

**SCHEDULE -IV**  
**FORMAT FOR QUOTING RATES**

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>RATE FOR DPMCU (FOR Destination &amp; Inclusive of P&amp;F, Freight, Taxes applicable &amp; all other charges (In Rs.)</b>
A.	Supply & Installation of AMCU with DOT Matrix Printer, Milk Analyzer, Electronic Weigh  Scale, REMOTE DISPLAY UNIT (RDU), Ultrasonic Milk Sample Stirrer, Power Back-up Solution	1 Set ( as per technical specifications)	

**Date:**

**Place:**

**Signature of authorized of the Unit**

**(With Seal)**