

कार्यालय—छत्तीसगढ़ राज्य सहकारी दुग्ध महासंघ मर्यादित
ग्राम—उरला, पो—बी.एम.वाय.चरोदा, जिला—दुर्ग (छ.ग.)
क्रमांक/ 1121 / छगदुमसं/RKVY RAFTAAR-19-20/क्रय/2020, दिनांक:—25.06.2020

॥ AMCU प्रदाय एवं स्थापना कार्य हेतु निविदा सूचना ॥

छत्तीसगढ़ राज्य सहकारी दुग्ध महासंघ मर्यादित रायपुर के द्वारा दुग्ध सहकारी समितियों में AMCU प्रदाय एवं स्थापना कार्य हेतु निविदा आमंत्रित की जाती है। जिसकी निविदा जमा करने एवं खोलने की अंतिम तिथि -22.07.2020 निर्धारित है, निविदा का विस्तृत विवरण दुग्ध महासंघ की वेबसाइट:— www.cgcoopdairyfed.in पर उपलब्ध है।

प्रबंध संचालक

CHHATTISHGARH RAJYA SAHAKARI DUGDH MAHASANGH MARYADIT
(ISO 22000:2005 Certified)

Email: raipurdugdhsangh@gmail.comWebsite: www.cgcoopdairyfed.in

CGCDF/PUR /RKVY RAFTAAR-19-20/AMCU/ 1121

Date:25-06-2020

TENDER NOTICE

Chhattisgarh Rajya Sahakari Dugdh Mahasangh Maryadit, Raipur(CGCDF) invites tenders from Original Manufacturer/Autho. Supplier or Dealer for **Supply and installation of AMCU with software for DCS in the CG state** . Tender are invited. Strictly in adherence to the detailed specification given in the Schedule II of the Tender and will be received as per key dates mentioned below,

Key dates

Seq. No.	CGCDF Stage	Contractor stage	Start Date & Time	Expiry Date & Time
1	Tender Preparation And release of NIT	-	25-06-2020. at 04.00 PM to	-
2	-	Tender Purchase	26-06-2020. at 12.00 PM to	17-07-2020 up to 12.00 Noon.
3	-	Tender Download	26-06-2020. at 12.00 PM to	17-07-2020 up to 12.00 Noon.
4	-	Bid Submission	26-06-2020. at 12.00 PM to	22-07-2020 up to 02.00 PM.
5	-	Submit Bids	-	22-07-2020 up to 02.00 PM.
6	-	Submit Physical Documents' with Tender form fees and EMD	-	22-07-2020 up to 02.00 PM.
7	Open EMD	-	-	22-07-2020 up to 03.00 PM.
8	Open Financial/Price-Bid	-	-	22-07-2020 up to 03.30 PM.

Cost of tender form will be Rs.1000/- & EMD of **Rs.300000/-** in favor of **CHHATTISHGARH RAJYA SAHAKARI DUGDH MAHASANGH MARYADIT payable at Raipur** in the form of D.D. to be submitted along with Tender form. The form is to be download from website and separate DD of Rs. 1000/- be attached with tender form.

Place of opening of Tender:- Office of CGCDF-Main Dairy Plant, Admin Building at Meeting Hall .

Address: - Managing Director -CGCDF- Plant- Urla, BMY CHARODA, Distt- Durg CG.

MANAGING DIRECTOR

Head office & Postal Address.

**CHHATTISHGARH RAJYA SAHAKARI DUGDH MAHASANGH MARYADIT
URLA-BMY, CHARODA, DIST:-DURG-490025.**

CHHATTISHGARH RAJYA SAHAKARI DUGDH MAHASANGH MARYADIT
(ISO 22000:2005 Certified)

Email: raipurdugdhsangh@gmail.com

Website: www.cgcoopdairyfed.in

CGCDF/PUR /RKVY RAFTAAR-19-20/AMCU/ 1121

Date:25-06-2020

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Managing Director
Chhattisgarh Rajya Sahakari Dugdh Mahasangh
Maryadit, Urla, Durg

Schedule -1

GENERAL TERMS & CONDITIONS

Introduction

Objective of CGCGF is to collect milk from rural Dairy farmers located remotely at appropriate rates and provide a good quality milk to the consumers at reasonable rates. Currently CGCDF procures about 82000 litres per day from around 900 Societies that is chilled in 70 chilling centres functioning across 27 districts. Approx 20-30 milk milk producers per society are contributing to the overall procurement volume. Currently all data are recorded manually which are prone to errors and considering the remoteness of the societies the data is not received on real time.

CGCDF vision and mission is to bring about growth and rejuvenation in Dairy industry, increase the Dairy productivity and so rural employment, increase the income of dairy farmers, bring sustainability in dairy industry, create adequate marketing infra-structure for providing quality milk to the consumers. Achieving this is not possible without adoption of innovative technology as can be inferred below

1. Interested eligible Bidders may obtain further information from the office of CGCDF
2. The bid shall be submitted in two cover system consisting price bid. The price bid of those who qualify in the technical bid only will be opened.
3. Detailed terms and conditions, scope of work etc shall be as indicated in this bidding document.

4. **Scope of Work:-**

The bidder shall have to quote rate and work will be done as per detailed specifications given in the schedule –II

CGCDF an ISO certified cooperative organization, invites tender from Original Manufacturer/Authorized Supplier or Dealer for **Supply and installation of AMCU with software for DCS in the CG state at 108 societies as per attached in schedule –II , page no-26.** Strictly in adherence to the detailed specifications given in the tender documents.

Managing Director of CGCDF 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 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.
- 2.2 Individuals signing on the tender and other related documents must specify in which capacity of the firm he/ she has signed the documents.
- 2.3 The tenderer(s) should clearly state in their offer the address, telephone, fax, e-mail, PAN and GSTN. Any change in the address should immediately be communicated to the Managing Director, CGCDF and correspondence thereafter will be made at the changed address.
- 2.4 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.
- 2.5 The acceptance of the tender and award of the purchase order will be the sole right of the Managing Director, CGCDF 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.
- 2.6 The Managing Director, CGCDF 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.
- 2.7 Each tender should be accompanied with copy of PAN, Income Tax Return of the last two financial year, GST number and without which the tender may not be entertained.
- 2.8 The Tenderers should submit the tender rates in the Schedule IV only. The conditional tenders are liable to be rejected.
- 2.9 No person or firm is permitted to submit more than one tender under different names.
- 2.10 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 Managing Director, CGCDF during the supply.
- 2.11 Demonstration of articles available with the firm shall be arranged by the tenderer at his own cost, whenever requested by CGCDF.
- 2.12 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.
- 2.13 Tenderer shall fill all the details of the unit in the enclosed form-A in schedule-III.
- 2.14 Those tenderer offering rates for various equipment shall submit Food Grade Certificate on the firms letter head, that all materials being used are of Food Grade only for your purchase order supply.

3.0 EARNEST MONEY DEPOSIT: (As detailed in Price bid form)

- 3.1 All the tenderers are required to deposit Earnest Money as specified in tender document, for each item in the form of crossed Demand Draft in favour of Chhattisgarh Rajya Sahakari Dugdha Mahasangh Maryadit, payable at Raipur only. EMD should be reach at CGCDF before the tender opening time & schedule. 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 Any tender which is not accompanied by Earnest Money deposit are liable to be rejected. Earnest money deposit of unsuccessful tenderers will be returned within 30 days from the date of opening of the tender. The earnest money deposit of the successful tenderers will be released on completion of supply/work/AMC Period as the case may be within the stipulated period without any interest amount.
- 3.3 No interest will be paid on the earnest money for the period during which (the EMD) lying in deposit with CGCDF.

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 there of and submit them to the CGCDF, in writing that such doubts may be removed before submitting the tender.

4.2 Prices offered by the tenderers should be firm and free from all escalations 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 site basis (as per enclosed list of current AMCU required DCS)

4.4 The tender should clearly specify rates quoted are inclusive of GST(Basic rate+ GST= Rate Quoted).

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 supplies 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

5.0 MODE OF DESPATCH:

5.1 The material to be supplied by successful 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 Penalty.

6.1

- | | |
|----------------------------|-----------------------------|
| • Duration of delay | • Penalty |
| • Upto 30 days | • 1% cost of the unit. |
| • Between 31 to 45 days | • 2% cost of the unit |
| • Beyond 60 days | • Upto10% cost of the unit. |

6.2 If the tenderer fails to make supply within 90 days from the date of 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.

7.0 ELIGIBILITY CRITERIA

7.1 Tenderers should submit supplier's List with contact detail / Purchase order copy/performance Report.

7.2 Minimum one year experience in dairy/Food/Beverages industry for related work.

7.3 The tenderers should submit copy of IT Return for Last Two Financial years.

7.4 The tenderers should submit copy of PAN Card and Valid GST No.

7.5 The tenderers should submit Filled Form-A & Form-B& attach related document as per Form A & B

7.6 The tenderers should submit EMD.

7.7 The tenderers should have their service network in Chhattisgarh to provide onsite after sale service at DCS level and during AMC.

8.0 INSPECTION:

8.1 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. The rejected goods should be removed from our premises by the tenderer within 15 days after receipt of our inspection report failing which the same shall be returned to the supplier at his risk and expenses or disposed off in Auction and the proceeds, if any, less expenses would be credited to tenderer's account. Sample of the articles should be sent/produced before the competent authority if asked for within 3 days or as mutually agreed.

9.0 Bidding Process

9.1 The EMD, technical (Bidder Qualification) & financial bids are to be submitted in three separate sealed envelopes namely A, B, & C respectively.

9.2 The three envelopes than have to be put inside a bigger sealed envelope D, super scribing "Envelop D bid for "Supply and installation of AMCU with software for DCS in the CG State" with tender ref no **CGCDF/PUR /RKVY RAFTAAR-19-20/AMCU/ 1121, Date:25-06-2020** & category , before.....(time).....date.

These envelopes will contain the document on follows.**- Envelop (A) - EMD & Tender Fee**

- a. EMD as per schedule II in the form of D.D. in favor of Chhattisgarh Rajya Sahakari Dugdh Mahasangh Maryadit, payable at Raipur.
- b. Tender Fees Rs.1000/- in the form of D.D. in favor of Chhattisgarh Rajya Sahakari Dugdh Mahasangh Maryadit, payable at Raipur. (in case the form is downloaded). If bidder has purchased the tender form from the office, the receipt of payment should be attached.
- c. This envelope 'A' will be super-scribed as "Envelop 'A' EMD for "Supply and installation of AMCU with software for DCS also indicate the total no. of payer inside the envelop.

- Envelop 'B' Technical bids(Bidder Qualification)**This envelop must contain the following –**

- a. A filled up sheet of as per check and self attested copies of all the relevant document as per point no- 7.1 to 7.7 along with form A& B of schedule -III
- b. This envelope "B" will be super scribed as envelop 'B' technical bid for relevant work and the total number of pages inside this envelop shall also be indicated.

- Envelop 'C' financial bid

- a. The rate quoted should in the prescribed format form 'B'.
- b. The envelop 'C' will be super scribed as "Envelop" 'C' financial bid for "Supply and installation of AMCU with software for DCS This should also indicate the total no. of pages inside the envelop.
- c. All the pages submitted in all the three envelope –A,B,& C the bid along will the attached document should be signed by the authorized person of the bidder

9.3 Bid opening Process

- The bid will be opened on 22.07.2020 at 03.00PM
- The envelope 'A' will be opened first & and if required EMD & form fees is found correct, then envelope 'B' technical bid will be opened
- The bidders who fulfill all the technical criteria as required for technical bid will be eligible for opening their financial bid
- The representative of the bidders are also invited to be present at the time of bid opening process, however bid opening process shall not be stopped/halted/postpone in their absence

10.0 PAYMENT:

- 60% against delivery of machine/equipments in good condition at site and after physical inspection and verification by concern department.
- 30% within 30 days of after commissioning and successful trial run of machine/equipments at site.
- Balance 10%, after 6 months from the date of commissioning and successful trial run of machine/equipments at site.

11.0 WARRANTY

All the Supplied items shall be warranted for 3 years from the date of installation under AMC.

12.0 TERMINATION OF CONTRACT:

If any act of commission or omission of a unit under contract brings CGCDF, to dispute, then Managing Director of CGCDF 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 Managing Director, CGCDF. 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:

15.0 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 Managing Director, CGCDF, in this respect will be final and binding on the successful tenderer.

16.0 For all matters of dispute, the decision of the Managing Director of CGCDF. Under Arbitration and Conciliation Act. 1996 shall be final and binding on all the concerned.

17.0 For all disputes, the venue for legal course shall be at Raipur.

Managing Director

Schedule - II : Specification : -

- 1- AMCU with Automatic EMT.**
- 2- AMCU with milk Analyser.**
- 3- Ultrasonic milk Analyser with Stirrer.**
- 4- Automatic EMT**
- 5- EWS – Capacity 200 Kgs**
- 6- DPMCU with external printer & Automatic EMT**
- 7- DPMCU with inbuilt thermal printer & Automatic**
- 8- List of DCS**

1. SPECIFICATION FOR EMT BASED AUTOMATIC MILK COLLECTION UNIT (AMCU) FOR VILLAGE MILK POOLING.

1- Functional Requirements:

1.1 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 centre together with the details of milk business transactions of the village co-operative society/MCC.

1.2 The Unit should be able to measure milk component contents viz. 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 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.

2.1 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 +/- 10 % V (AC); 50 +/- 3% / 12 V (DC)
- Ambient Temperature : 5 - 50^oC
- Relative Humidity : 50% to 95 %

2.2 Operational provisions:

2.2.1 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/materials for the proper earthing as per local Electricity Board Regulations.

2.2.2 Warranty All the components include in the AMCU shall be warranted for one year comprehensive warranty except Burnt & broken items are not covered. Supplier to ensure the installation and commissioning of proper earthing before start of actual operation of AMCU.

2.2.3 Annual Maintenance : Comprehensive AMC charges for next two years is to be quoted separately. Placement of a technician in field level per 50 AMCU, for repair and maintenance so that the system is available by next milk collection shift. Burnt & Broken items are not covered under AMC. Milk collection centre should arrange to send EMT for servicing at the nearest BVCU centre/Chilling centre.

During warranty period and Annual Maintenance Service period, posting of the technician will be under.

AMCU installed (nos.) <=25 to be attended within 24 hours.

AMCU installed (nos.) > 25 and up to 50 - Posting of one technician.

Thereafter one technician per addition of 50 AMCUs.

2.2.4 Training - Comprehensive for 2 days in class room & hands-on training for 4 shift of milk collection on all operational aspects of the EMT and other AMCU components to DCS/MCC staff at village level and other officers of the EIA Between 1st & 2nd month of installation refresher training in group shall be imparted at a nodal location.

2.2.5 Operational & Cleaning SOPs (including leaflet on troubleshooting) - Provide laminated wall chart indicating important steps involved in operation & cleaning of the Milk Analyser for displaying.

2.2.6 The optional specification item 12.0 Earthing is an optional and price for the same should be mentioned separately. The price shall be added for evaluation of the bid if the same is required. (Supplier needs to quote the price as optional item)

Sr.	Particulars	Specification
3	Basic operations at society	<p>All operations are manual or semi-automated at society level. No regular power supply is available and fluctuation in power supply is very high. Clean and dust free environment cannot be guaranteed. The operators may not be IT savvy. Major Activities at Society :</p> <ul style="list-style-type: none"> • Purchase of Milk • Payments to producers for milk poured, government subsidies, incentives for quality etc • Purchase of Cattle Feed • Purchase of Ghee • Other Purchases • Expenditure for Services • Other Expenditures • Local Sale of Milk • Supply/Sale of Milk to the Union • Sale of Cattle Feed • Sale of Ghee • Support for AH , AI etc • Income from Services • Other Income
4	AMCU- Functional Requirements	<ul style="list-style-type: none"> • 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. • This unit should also be used for maintaining the complete record of the collection centre as above together with the details of all transactions of the producers/MCC. • Recommended to incorporate capability for online data transfer to Milk Union and designated local Banks for transfer of payments to milk producers in their bank accounts directly.
5	Computer Hardware and Software	Models of PC offered should be of Enterprise/Business Class Desktop PC (OEM). Home/SMB Class Desktop PC shall not be accepted.
5.1	Processor	• 6th Generation Intel Core i3-4460, 3 MB Cache, 64 bit
0.2	Form Factor	• Tower Model
0.3	Chipset	• Intel Chipset supporting the above processor
0.4	Memory	• 4 GB DDR3 1333 MHz SDRAM expandable to 8 GB
0.5	Internal Storage	• 500GB SATA II Hard Disk Drive

0.6	Removable Media	• DVD+/-RW Writer.
0.7	Graphics	• Integrated Intel HD Graphics supporting 1600x 1200 resolutions
0.8	Audio	• Integrated high definition audio
0.9	Network	• 10/ 100/1000 Mbps Gigabit Ethernet
0.1	Display Monitor	• 18.5" wide screen LCD/LED Backlit TFT Color HD Monitor with 1366x 768 native resolutions.
0.11	Input Devices	• USB standard Keyboard and USB Optical 2 button Scroll Mouse with
0.12	Ports & Connectors	• 2 Serial Port, 1 Parallel Port, 1 VGA Port, 1 Microphone / Headphone jack, 1 RJ45 Ports.
0.13	USB Ports	• 6 USB 2.0 Ports (Min. two on front and two on rear side}.
0.14	PCI Slots	• Minimum 2 free PCJ Slots.
0.15	Compatibility	• Windows 8/Windows 7 /2008/2012 Linux Compliant.
0.16	Operating System	• Licensed Windows 8.1/ Windows 10 64 bit preloaded with OS recovery Media Driver CD.
0.17	Anti Virus	• Norton/ Symantec eTrust MacAfee, Trend Micro Quick Heal latest version with oneyear license
0.18	Warrantee obligation	<ul style="list-style-type: none"> • call should be attended by next business day • Problem resolved within 24 hours of attending the call within 48 hours in case any part is to be replaced
0.19	Scope of work	• Installation and configuration
0.2	Application Software	<ul style="list-style-type: none"> • Supplier to develop and provide Integrated AMCU Software for all functions & requirements of Milk collection centre. Supplier to finalise requirements from EIA for all Milk Collection centres, 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 based on feedback/request from EIA/Milk Collection centres to be done without extra charges • Software shall be Bi- Lingual (English and Hindi Language). • Data generated from the new system should be compatible with the format in which the data is accepted by the existing system. • The software should be user friendly, menu driven, and provide help facility in local language. • The data input forms, reports, menus etc. should be in English and in local language. • 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. • The software should have provision of connectivity of such milk collection centre with milk collection agency's head office in the future. • The supplier should also make necessary changes on case-to-case basis, wherever required. The application package should contain legal copy of the database use

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6	DOT MATRIX PRINTER	
6.1	Print Method	Impact dot Matrix external printer
0.2	Pins in head	24 pins
0.3	Print Direction	Bi-direction parallel interface USB 2.0 (Full speed)
0.4	Print speed	300 cps high speed draft LQ and other features I
0.5	Printable column	80 (10 cpi)
0.6	Paper Handling	Pull tractor unit
0.7	Paper Path	Manual insertion- front or rear in- top out; Push Tractor- front or
0.8	MTBF (hrs at 25% duty cycle)	10000 POH (25% Duty)
0.9	Copy Capability	Original + 3 copies
0.1	Cartridge	Ribbon cartridge Black, with 2.5 million characters
0.11	Compatible OS with drivers	MS Windows 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,
0.12	Accessories	Roll stand
7	Electronic Weigh Scale	
7.1	Functional Requirement	To Electronically weigh & digital display of milk quantity in litre.
0.2	Capacity	200 kg
0.3	Least Count	20 gm
0.4	Weight Accuracy	20 gm as per Standards of W & M Rules 1987 medium accuracy
0.5	Certification & Stamping	Class III Duly certified and stamped by W&M Dept. and confirming to IS :9281(pt 1&2)1979, IS:9281 :1981 and IS:9281(Pt.4) 1983 as
0.6	Display Resolution	1/10,000, (accuracy class III)
0.7	Load Cell	Single, IP 67 grade SS of certified and approved make
0.8	Over load & shock load protection	300% to take impact of loading, with audio (beep) visual indication
0.9	Platform Size	600 mm x 600 mm
0.1	Platform MoC	AISI SS 304 1.6 mm thick,150 grit top plate
0.11	Platform under frame material I Design	Cold rolled mild steel box of adequate size. Hot djp galvanised after fabrication All screw /bolts/ nuts to be of SS
0.12	Indication in display EWS unit	Quantity-7 Segment RED LED ,6 digits, mjjmum 13 mm height, display for mode of operation- zero, tare, kg/litre, by default KG
0.13	Display unit mounting	<ul style="list-style-type: none"> • Pole mounted type with sturdy base and SS 304, 38 mm dia. Pipe-1.2 m high • SS 304 Body IP 55, Tactile switch keys with feedback response, auto calibration & auto span with drift correction, • RS 232 serial port with protocol to meet requirement of IBM compatible.
0.14	Calibration protection & Sealing Arrangement	<ul style="list-style-type: none"> • Special arrangement to house PCB & sealing arrangement. • Pass word protection at user end.

0.1 5	Load cell Cable	Load cell cable from platform to display unit with reinforced heavy duty PVC conduit
0.1 6	Battery for working on power failure	In built, 6 V capacity minimum for 12 hrs.
0.1 7	Power Supply	As given above with minimum 1 m power cable with plug top AC/ DC
0.1 8	Model Approval Certificate	Manufacturer to have model approval certificate of regulatory authority/ Govt of India (Weight & Measure Unit)
0.1 9	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 the 1st year only. Stamping of each weighing scale from 2nd year onwards will be in our scope.
8	EMT	Automatic EMT
8.1	Functional Requirement	To test & display measured fat% Automatic EMT: The automatic EMT shall be the advance version of EMT which shall have synchronized motors for auto intake of milk for case of operation (hands free operation).
8.2	Working Principle	It shall work on the principle of photometric measurement of light scattered by the fat globules present in the milk sample.
8.3	Measurement Range	0 - 13% fat
8.4	TestCapacity (Sample/hours)	Auto EMT: Minimum 150
8.5	Accuracy	0.10% for 0 – 5% fat
8.6	Repeatability	0.04 % for 0 – 5 % Fat 0.06 % for 5 – 8 % Fat 0.08 % for 8 - 13 % Fat
8.7	Display	Easy to read digital LED display (fat)
8.8	Sample Volume	0.5 ml/ test
8.9	Diluent Volume	6.5 ml/ test
8.9.1	Power supply	AC: 220/240V (Max + 10%, Min – 15%) DC : 12V, 6A; (Max 16v, Min 10 5v) A fully-charged 120 AH battery shall last for at least 10 hours of operation.
8.9.2	Ambient Temperature	5-450 C
8.9.3	Net weight	Max 20 Kg
8.9.4	Power Consumption	Max 300 Watts
8.9.5	Dimension (H*W*D)	Suitable Dimension
8.9.6	Loose Accessories	Holding bottom tray for spillage- 1 No. RS 232 Serial Cable- 1 No. A C Power cable with plug top- 1 No.
8.9.7	Manual	Operating Manual each in English & Local language per AMCU supply
8.9.8	Additional Features	<ol style="list-style-type: none"> 1. Easy to operate and clean 2. Auto zero facility 3. Built in battery Charger 4. Automatic switch over to battery in case of power failure 5. Rs 232 communication facility 6. Temper proof auto calibration (password protection for calibration) 7. Compatible with computer/Data processor and other required devices 8. Easy to carry from one place to another place due to specially designed bag

10	REMOTE DISPLAY UNIT (RDU)	
10.1	Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters in English / Local Language
10.2	Type	Wall mounted type
10.3	Display Parameters	i)Member's code-3 to 16 digits; ii)Cattle Type- 1 character, iii)Milk Weight-S digits; iv) Fat %-4 digits; v) SNF %-4 digits; vi) Rate in Rs5 digits; vii) Amount in Rs.-6 digits generally to meet the need of the users.
10.4	Interface	RS - 232 / USB Host
10.5	Display Type	7 Bright segments Red LED 25 mm, 33 No. 11 in each row with 3 rows(or suitable to meet the requirement)
10.6	Labels for display	Screen printed
10.7	Environment	Dusty Humid, preferably housing to be with IP 55 or equivalent protection rust proof powder coated metallic.
10.8	Connecting Cables	Minimum 5 m Power cable with plug top with connector at both ends, Minimum 5 m Data cable with connector at both ends
11	UPS	
11.1	Functional Requirement	To give regulated AC power to AMCU from mains or attached battery
11.2	Type	Line-Interactive type
11.3	Capacity	1500 VA minimum
11.4	Back up time (Full Load)	3- hrs minimum (in one shift)
11.5	Output Wave Form	Sine Wave/ Quasi Sine wave
11.6	Voltage at input	160-280 v (+10%)
11.7	DC Voltage Bus	24V
11.8	Voltage at output (With Mains as well as with Battery)with in-built AVR	220V +/- 10%
11.9	Full protection	In built protection - Under / Over voltage, Shortcircuit, Overload Cut off Low Battery Cut-off Spikes
11.10	Warning (LED+ Sound)	Low Battery & Overloads
11.11	Input/ Output Frequency	50Hz+/- 3Hz,No Correction
0.12	Battery Charging	• Preferably to take place even at 130 & 300 V with SMPS charger. . Battery overcharge protection
	Battery No and Type	2 No 90 AH Tubular, Acid filled, low maintenance battery with level indicator (Maintenance free Battery desirable)
12.1	Earthing- Earth Electrode (Gel type) (Optional)	
12.1	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.
12.2	Pipe Material	Galvanized Pipe as per IS : 1239
12.3	Class of Pipe	Class-B
12.4	Diameter (Outer Dia.)	48mm

12.5	Length	2 Meter
12.6	Wall Thickness	2.5mm
12.7	Primary Electrode	Mild Steel Strip
12.8	Mild Steel Strip	2.12 m long, 32 mm wide and 6 mm thick
12.9	MS Strip hot dip Galvanized thickness	110 micron
12.10	Gel Filled	Highly non-corrosive compound
12.11	Earth wire to connect electrode with power supply	Copper 8 m long & 4 mm dia suitable for interconnection

13.0 Installation and Commissioning: All the components of the AMCU including optional item if any 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/materials for the proper earthing as per local Electricity Board Regulations.

Note:- For Item No. 02 Specification are same as of Item No. 01, only specification of ultrasonic milk analyser enclosed separately.

3. SPECIFICATION FOR ULTRASONIC MILK ANALYSER WITH STIRRER

S.No.	Particulars	Specification
Note : These are broad minimum specs for the analyser, Bidders can offer analyser with advanced technology and improved testing features for fat and SNF.		
1.1	Functional Requirement	To test, display FAT, SNF & Added Water in Milk Electronically & provide RS 232 interface .
1.2	Type	Ultrasonic principle based milk analyser for testing fat, SNF & added water
		Measuring parameters :
		1) Fat – 0.5% to 12% with accuracy +/-0.1% with resolution: 0.01% and repeatability : +/-0.5%
		2) SNF – 6% to 12% with accuracy +/-0.2% with resolution: 0.01% and repeatability : +/-0.5%
		3) Added water – 0% to 60% with accuracy +/-5% with resolution: 1% and Repeatability 0.5%
		Measuring cycle-30 sec per sample
		Average testing speed – 100 samples/hr
1.3	Operational Abilities	Mode selection for type of milk – Cow, Buffalo, Mixed/single curve with Cleaning. Calibration, System error list etc.
1.4	MoC for enclosure	AISI 304, 0.75 mm thick minimum
1.5	Power consumption	50 Watts on AC
1.6	Loose Accessories	<ul style="list-style-type: none"> • Holding bottom tray for spillage – 1 No. • Rs 232 Serial Cable -1 No. • A C power cable with plug top- 1 No. • Measuring mugs- 2 No. • Daily cleaning solution – no. of Bottle 3 (Quantity minimum 200 ml or equivalent) • Monthly cleaning solution – No. of Bottle 1 (Quantity minimum 200 ml or equivalent)
1.7	Ultrasonic Milk Sample Stirrer	To remove air from fresh milk sample by vibrations created in the milk before testing of milk.
1.8	Type	Table top, Ultrasonic Stirrer
1.9	Ultrasonic Frequency	20-25 KHz (Variable)
2.0	Environment	Suitable for dusty/humid village environment operating temperature - 5 to 50 Degree C
Operating manual in English & preferably in local language should be Supply with each unit.		

4. Specification for Automatic EMT

S.No.	Particulars	Specification
1.	Functional Requirement	To test & Display Measured Fat% Automatic EMT : The automatic EMT shall be the advance Version of EMT which shall have synchronized motors for auto intake of milk for ease of operation (hands free operation).
2.	Working principle	It shall work on the principle of photometric measurement of light scattered by the fat globules present in the milk sample.
3.	Measurement Range	0-13% Fat
4.	Test Capacity (Samples /hour)	Auto EMT : Minimum 150
5.	Accuracy	0.10% for 0-5% Fat
6.	Repeatability	0.04 % for 0-5 % Fat 0.06 % for 5-8 % Fat 0.08 % for 8-13 % Fat
7.	Display	Easy to read digital LED display (Fat)
8.	Sample Volume	0.5 ml/test
9.	Diluent Volume	6.5 ml/test
9.1	Power supply	AC: 220/240V (Max + 10%, Min – 15%) DC : 12V, 6A; (Max 16v, Min 10.5v) A fully-charged 120 AH battery shall last for at least 10 hours of operation.
9.2	Ambient Temperature	5-45°C
9.3	Net weight	Max 20 Kg
9.4	Power Consumption	Max 300 Watts
9.5	Dimension (H*W*D)	Suitable Dimension
9.6	Loose Accessories	<ul style="list-style-type: none"> • Holding bottom tray for spillage -1 No. • RS 232 Serial Cable – 1 No. • A C Power cable with plug top- 1 No. • Daily cleaning solution for minimum 1 month
9.7	Manual	Operating Manual each in English & preferably Local language per EMT supply
9.8	Additional Features	<ol style="list-style-type: none"> 1. Easy to operate and clean 2. Auto zero facility 3. Built in battery Charger 4. Automatic switch over to battery in case of power failure 5. RS 232 communication facility 6. Tamper proof auto calibration (password protection for calibration) 7. Compatible with computer/Data processor and other devices 8. Easy to carry from one place to another place due to specially designed bag

5. Specification For EWS- 200 kg

The weighing scale should conform to provision of “Standards of Weight and Measures (General) Rules,1987 (Medium Accuracy-III). Electronic Weighing Scale should be duly certified and stamped by weight and measure department and conforming to IS:9281 (pt. 1&2) 1979, IS 9281 : 1981 and IS 9281 (pt. 4) 1983 as amended up to date.

The base frame for the EWS should be made from cold rolled steel box of adequate size. The frame after fabrication should be not dipped galvanized . The frame welding areas should be ground smooth and have a smooth surface finish. The unit shall have rust proof housing and have means of level adjustment . The scale should have a Stainless Steel (Dairy Grade AISI 304) platform of a minimum thickness of 1.5mm polished to 150 grit for keeping milk – receiving pails or two numbers 40 lit milk cans. A mechanical over load protector should be provided for protection of load cell. The load cell should be properly fitted on the structure to avoid over hang. The leveling screws provided at four corners of structure should have protective coverings on inner.

Side (Preferably screw cap type) .All screws & nut used on the frame shall be of SS. The load cell cable terminating in the display unit should be properly secured to frame to prevent any damage to load cell while shifting the scale. Full length of the cable should be enclosed in a non- corrosive flexible sheet wire reinforced heavy-duty PVC conduit for protection against rodents. The EWS shall be stranded from weights & measures department at site.

3.1.1 Design Requirement :

Capacity	: 200 kg
Resolution	: 20 gm
Load cell	: Stainless steel , bending beam , resistive strain gauge type.
Platform/platter	: 600 mm x 600 mm,
Size	
Power Supply	: 230± 10% Volts (AC) , 50 Hz.

3.1.1.1 Load cell :

The load cell shall be Stainless Steel bending beam type resistive strain gauge of adequate rated capacity. The material of construction for the load cell should be Stainless Steel-Nickel Chromium (Cr-Ni) and should withstand loads of 300% minimum to take ultimate/impact of the loading when milk is poured into weighing pail/milk can. The load cells should be compensated against variations in temperature in the range of minus 10 deg. C to 50 deg. C. 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) , Vadodra / Electronic Test & Development Centre (ETDC) , Indore / Electronic Regional Testing Laboratory, Mumbai / Delhi /Electronic & Quality Development Centre (ETDC) , Ahmadabad / Delhi or Regional Reference Standards Laboratory (RRSL) Bangalore.

3.1.1.2 Display & Control Unit :

EWS should be AC operated with proper earthing point. The control & display unit should be compact – housing all the Circuits , DC regulator , SMF Battery (minimum 20 hours operation) and other protective devices for safe and smooth operation of the weigh scale. The readout shall be bright 7 segments GREEN LED digital display minimum 10 mm high. LED indications shall be available to indicate mode of operation , tare , net or gross weight in kg/lit. Indication shall also be available for over load. The inputs for these functions shall be from membrane / tactile switches. All indications / read outs and inputs switches shall be on the front side of the unit . It should also be controllable through PC. There should be no visual errors.

The unit should have auto-zero facility to tare our after each members pours his / her share of milk in the same receiving pail. The weigh scale should have automatic span drift correction built in to it. It should also have a reset button, which should enable to start a fresh operation. This must have RS 232 port , an interfacing facility to communicate with ant IBM compatible PC. The user should be able to perform all the functions of EWS from PC.

The unit should be a piece of high quality work nanship with regard to durable car 1 supports, soldering , wiring with proper insulation sleeves, connectors and locking arrangements. No connection should be loose or made directly to the card. The EWS display unit should have air-ventilating facility to ensure adequate circulation of air to ward of any heat generated in the unit. The fixing screws should be non-corrosive counter sunk type.

3.1.1.3 SS Pole for Display unit – An arrangement for mounting of the display unit made out of SS-304 pipe 38 mm ϕ , 1.5 mm thick , 1.2 m high (including SS sturd base) and necessary connecting cable enclosed in a noon – corrosive flexible steel wire reinforced heavy duty PVC conduit for protection against rodents.

6. Data Processor based Milk Collection Unit (DPMCU) With External printer & Automatic EMT.

The DPMCU is the intermediate Milk Testing System which can be upgrade to full scale AMCU as per enclosed specification by addition of Personal Computer with monitor Operating software and interconnecting cables and one more Digital Indicator. The configuration of the DPMCU includes the following

S. No.	Item Particular
1	Microprocessor based Data Processor Unit (DPU)
2	Dot Matrix Printer (24 pin 80 column)
3	Electronic Weighing Scale -200 kg
4	Automatic EMT
5	Remote Display Unit
6	UPS 1 KVA with battery
7	GSM Module
8	Standard accessories/cables/any other items required for successful operations of DPMCU
<i>Please quote your rate item-wise with make. Comprehensive Warranty for one years from the date of installation for all the components against manufacturing defects/malfunction (Burnt and broken items not covered)</i>	

1.0 DATA PROCESSOR UNIT

Sl	Particulars	Stated Specification
1.1	Operational Requirement	Provision of import of producer master, rate chart data from dairy central server offline through pen-drive (USB/ Serial/ Smart Card). Based on the requirement.
		To accept data from electronic weighing machine, auto EMT/ milk analyzer after entering the milk producer code number manually.
		Data transfer from DPU through pen drive (USB/Serial) to other computer through a customized utility software.
		Reports as under :
		1. Producer Slip in English. Shift end Summary on 80 column format/ internal thermal printer
		2. Dispatch slip, local sale, payment registers & member listing on 80 column format in English.
		Customized reports as per EIAs requirement with possible inputs.
		Entering of milk rate chart by keyboard or pen drive (USB/ Serial).
		Two sets of rate charts (Buf. & Cow both) , one for current & other as "effective from date". Rate chart type to support- Fat; FAT& SNF
		Data back up through Smart card or through data logger or on external SD card or through removable internal SD Card.
		Data of producer to be stored through key board or through smart card or sr. pen drive.
Input services data entry and storage. To develop, if any additional report required by purchaser		
1.2	Technology	Microcontroller based
1.3	Display	LCD 4 Line/20 Character OR HIGHER
1.3	Memory	2 GB SD Card. 14,60,000 Records, 2 Yr. data storage for 1000 Members.
1.4	RS-232 Interface	For Milk analyzer, electronic weigh scale, remote display unit, DMP/ other suitable printers & Pen drive.
1.5	Environment	5-50 Deg C, 85%RH, Village Dusty environment, Housing made of
1.6	Printer	Interface for External 24 Pin 80 Columns DMP
1.7	Power Supply	230 V AC, 50 Hz.; 12 V DC input.
1.8	Key Board	4X4 Membrane/Matrix type and PC Keyboard
1.9	Real Time Clock	In built
1.10	Consumables & Accessories with each DPU	Paper Role 05 No.
		Power Cord 1.5 M with plug top-1 No.
		Power supply lead 1.5 M for printer (SMPS)
		Data lead 2 M for weigh scale with RS-232 connector at both ends
		Data lead 2 M for Remote Display Unit with RS-232 connector at both ends.
		Data lead 2 M for Milk Analyser with RS-232 connector at both ends.
		Pen drive (Serial/USE) - 3 Nos.
Suitable Paper holder to hold paper role-1 No.		

2.0 DOT MATRIX PRINTER

0.1	Print Method	Impact dot Matrix external printer
0.2	Pins in head	24 pins
0.3	Print Direction	Bi-direction parallel interface USB 2.0 (Full speed)}
0.4	Print speed	300 cps high speed draft LQ and other features I
0.5	Printable column	80 (10 cpi)
0.6	Paper Handling	Pull tractor unit
0.7	Paper Path	Manual insertion- front or rear in- top out; Push Tractor- front or
0.8	MTBF (hrs at 25% duty cycle)	10000 POH (25% Duty)
0.9	Copy Capability	Original + 3 copies
0.1	Cartridge	Ribbon cartridge Black, with 2.5 million characters
0.11	Compatible OS with drivers	MS Windows 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,
0.12	Accessories	Roll stand

3.0 Electronic Weigh Scale

0.1	Functional Requirement	To Electronically weigh & digital display of milk quantity in litre.
0.2	Capacity	200 kg
0.3	Least Count	20 gm
0.4	Weight Accuracy	20 gm as per Standards of W & M Rules 1987 medium accuracy
0.5	Certification & Stamping	Class III Duly certified and stamped by W&M Dept. and confirming to IS :9281(pt 1&2)1979, IS:9281 :1981 and IS:9281(Pt.4) 1983 as
0.6	Display Resolution	1/10,000, (accuracy class III)
0.7	Load Cell	Single, IP 67 grade SS of certified and approved make
0.8	Over load & shock load protection	300% to take impact of loading, with audio (beep) visual indication
0.9	Platform Size	600 mm x 600 mm
0.1	Platform MoC	AISI SS 304 1.6 mm thick,150 grit top plate
0.11	Platform under frame material I Design	Cold rolled mild steel box of adequate size. Hot dip galvanized after fabrication.All screw /bolts/ nuts to be of SS
0.12	Indication in display EWS unit	Quantity-7 Segment RED LED ,6 digits, minimum 13 mm height, display for mode of operation- zero, tare, kg/liter, by default KG
0.13	Display unit mounting	<ul style="list-style-type: none"> • Pole mounted type with sturdy base and SS 304, 38 mm dia. Pipe-1.2 m high • SS 304 Body IP 55, Tactile switch keys with feedback response, auto calibration & auto span with drift correction, • RS 232 serial port with protocol to meet requirement of IBM compatible.
0.14	Calibration protection & Sealing Arrangement	<ul style="list-style-type: none"> • Special arrangement to house PCB & sealing arrangement. • Pass word protection at user end.

0.1 5	Load cell Cable	Load cell cable from platform to display unit with reinforced heavy duty PVC conduit
0.1 6	Battery for working on power failure	In built, 6 V capacity minimum for 12 hrs.
0.1 7	Power Supply	As given above with minimum 1 m power cable with plug top AC/ DC
0.1 8	Model Approval Certificate	Manufacturer to have model approval certificate of regulatory authority Govt of India (Weight & Measure Unit)
0.1 9	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 the 1st year only. Stamping of each weighing scale from 2nd year onwards will be in our scope.

4.0 Automatic EMT

0.1	Functional Requirement	To test & display measured fat% Automatic EMT: The automatic EMT shall be the advance version of EMT which shall have synchronized motors for auto intake of milk for case of operation (hands free operation).
0.2	Working Principle	It shall work on the principle of photometric measurement of light scattered by the fat globules present in the milk sample.
0.3	Measurement Range	0 - 13% fat
0.4	TestCapacity (Sample/hours)	Auto EMT: Minimum 150
0.5	Accuracy	0.10% for 0 – 5% fat
0.6	Repeatability	0.04 % for 0 – 5 % Fat 0.06 % for 5 – 8 % Fat 0.08 % for 8 - 13 % Fat
0.7	Display	Easy to read digital LED display (fat)
0.8	Sample Volume	0.5 ml/ test
0.9	Diluents Volume	6.5 ml/ test
0.9.1	Power supply	AC: 220/240V (Max + 10%, Min – 15%) DC : 12V, 6A; (Max 16v, Min 10.5v) A fully-charged 120 AH battery shall last for at least 10 hours of operation.
0.9.2	Ambient Temperature	5-450 C
0.9.3	Net weight	Max 20 Kg
0.9.4	Power Consumption	Max 300 Watts
0.9.5	Dimension (H*W*D)	Suitable Dimension
0.9.6	Loose Accessories	Holding bottom tray for spillage- 1 No. RS 232 Serial Cable- 1 No. A C Power cable with plug top- 1 No.
0.9.7	Manual	Operating Manual each in English & Local language per AMCU supply
0.9.8	Additional Features	<ol style="list-style-type: none"> 1. Easy to operate and clean 2. Auto zero facility 3. Built in battery Charger 4. Automatic switch over to battery in case of power failure 5. RS 232 communication facility 6. Temper proof auto calibration (password protection for calibration) 7. Compatible with computer/Data processor and other required devices 8. Easy to carry from one place to another place due to specially designed bag

5.0 REMOTE DISPLAY UNIT (RDU)

0.1	Functional Requirement	To display pourer members milk collected & milk testing and other selected parameters in English / Local Language
0.2	Type	Wall mounted type
0.3	Display Parameters	i)Member's code-3 to 16 digits; ii)Cattle Type- 1 character, iii)Milk Weight-S digits; iv) Fat %-4 digits; v) SNF %-4 digits; vi) Rate in Rs5 digits; vii) Amount in Rs.-6 digits generally to meet the need of the users.
0.4	Interface	RS - 232 / USB Host
0.5	Display Type	7 Bright segments Red LED 25 mm, 33 No. 11 in each row with 3 rows(or suitable to meet the requirement)
0.6	Labels for display	Screen printed
0.7	Environment	Dusty Humid, preferably housing to be with IP 55 or equivalent protection rust proof powder coated metallic.
0.8	Connecting Cables	Minimum 5 m Power cable with plug top with connector at both ends, Minimum 5 m Data cable with connector at both ends

6.0 UPS 1 KVA with battery

0.1	Functional Requirement	To give regulated AC power to DPMCU from mains or attached battery
0.2	Type	Line-Interactive type
0.3	Capacity	1000 VA minimum
0.4	Back up time (Full Load)	2- hrs minimum (in one shift)
0.5	Output Wave Form	Sine Wave/ Quasi Sine wave
0.6	Voltage at input	160-280 v (+10%)
0.7	DC Voltage Bus	12V
0.8	Voltage at output (With Mains as well as with Battery)with in-built AVR	220V +/- 10%
0.9	Full protection	In built protection - Under / Over voltage, Short circuit, Overload Cut off Low Battery Cut-off Spikes
0.10	Warning (LED+ Sound)	Low Battery & Overloads
0.11	Input/ Output Frequency	50Hz+/- 3Hz,No Correction
0.12	Battery Charging	• Preferably to take place even at 130 & 300 V with SMPS charger. . Battery overcharge protection
	Battery No and Type	1 No 90 AH Tubular, Acid filled, low maintenance battery with level indicator (Maintenance free Battery desirable)

6.0 GSM Module

0.1	Power supply	Range: 3.4 V to 4.4 V
0.2	Frequency bands	GSM 850, EGSM 900, DCS 1800, PCS 1900. SIM800 can search the 4 frequency bands automatically. Compliant to GSM Phase
0.3	GPRS connectivity	GPRS Multislot class 12
0.4	Data GPRS	GPRS data uplink transfer Max: 85.6 kbps , Integrate the TCPIIP protocol, Support Packet Broadcast Control Channel (PBCCH) CSD transmission rates: 2.4,4.8,9.6,14.4 kbps
0.5	SIM interface	SIM Card Support:1.8V, 3V
0.6	External antenna	Antenna pad
0.7	Serial port and USB interface	Serial Port : Full modem interface with status and control lines, unbalanced, asynchronous USB Interface : Can be used as debugging and firmware upgrading
0.8	Phonebook management	Support phonebook types: SM, FD, LD, RC, ON, MC

7. Data Processor based Milk Collection Unit (DPMCU) With Internal Printer & Automatic EMT.

The DPMCU is the intermediate Milk Testing System which can be upgrade to full scale AMCU as per enclosed specification by addition of Personal Computer with monitor Operating software and interconnecting cables and one more Digital Indicator. The configuration of the DPMCU includes the following:

S. No.	Item Particular
1	Microprocessor based Data Processor Unit with inbuilt Printer (DPU)
3	Electronic Weighing Scale -200 kg
4	Automatic EMT
5	Remote Display Unit
6	UPS 1 KVA with battery
7	GSM Module
8	Standard accessories/cables/any other items required for successful operations of DPMCU
<p><i>Please quote your rate item-wise with make. Comprehensive Warranty for one years from the date of installation for all the components against manufacturing defects/malfunction (Burnt and broken items not covered)</i></p>	

Note:- Technical Specification are same as of Item No. 6, excluding Dot matrix printer.

List of Consignee (DCS)

छत्तीसगढ़ राज्य सहकारी दुग्ध महासंघ मर्यादित, रायपुर
ए.एम.सी.यू. स्थापना हेतु प्रस्तावित दुग्ध समितियों की सूची

क्रमांक	जिला	दुग्ध समिति का नाम	वर्ष 2019-20 औसत दुग्ध संकलन मात्रा
1	रायपुर	पिपरौद	208
2	रायपुर	हसदा	141
3	रायपुर	तामासिवनी	174
4	रायपुर	खौना	156
5	रायपुर	नारा	215
6	बलौदाबाजार	अमेरा	187
7	बलौदाबाजार	रोहांसी	239
8	बलौदाबाजार	कौवाडीह	246
9	बलौदाबाजार	अमरूवा	220
10	बलौदाबाजार	चांदन	247
11	बलौदाबाजार	पकरीद	209
12	गरियाबंद	बेलर	170
13	गरियाबंद	बकली	198
14	गरियाबंद	श्यामनगर	278
15	धमतरी	बगौद	204
16	धमतरी	भोथीडीह	174
17	धमतरी	बुढेनी	137
18	धमतरी	चर्चा	173
19	धमतरी	सोरम	112
20	धमतरी	आमदी	155
21	धमतरी	धौराभाठा	171
22	धमतरी	सौराबांधा	216
23	धमतरी	छाती	150
24	धमतरी	भेण्डरा	163
25	बेमेतरा	रांका	155
26	बेमेतरा	तेलगा	185
27	बेमेतरा	लेंजवारा	247

28	बेमेतरा	सोढ	202
29	दुर्ग	अरमरीखुर्द	205
30	राजनांदगांव	पिपरिया	345
31	राजनांदगांव	संडी	341
32	बालोद	इरईखुर्द	112
33	बालोद	देवरी	119
34	बालोद	बोहारा	210
35	बालोद	पलारी	207
36	बालोद	गुरुर	120
37	बालोद	धनेली	153
38	बालोद	सुरा	144
39	बालोद	सरबदा	180
40	बालोद	फागुनदाह	235
41	बालोद	बासिन	192
42	बालोद	पेण्डरवानी	114
43	बालोद	बेलौदी	168
44	कांकेर	पी.व्ही. 03	168
45	कांकेर	पी.व्ही. 119	196
46	कांकेर	पी.व्ही. 56	211
47	कांकेर	उजाला	154
48	कांकेर	कापसी	662
49	कांकेर	पी.व्ही. 122	226
50	कांकेर	पी.व्ही. 08	321
51	कांकेर	पी.व्ही. 115	275
52	कांकेर	पी.व्ही. 117	108
53	कांकेर	पी.व्ही. 80	272
54	कांकेर	पी.व्ही. 39	245
55	कांकेर	पी.व्ही. 22	288
56	कांकेर	पी.व्ही. 23	342
57	कांकेर	पी.व्ही. 33	178
58	कांकेर	पी.व्ही. 19	199
59	कांकेर	पी.व्ही. 116	251

60	कांकेर	पी.व्ही. 126	220
61	कांकेर	पी.व्ही. 25	254
62	कांकेर	पी.व्ही. 26	134
63	कांकेर	पी.व्ही. 17	284
64	कांकेर	पी.व्ही. 27	204
65	कांकेर	पी.व्ही. 52	143
66	कांकेर	पी.व्ही. 42	216
67	कांकेर	पी.व्ही. 44	132
68	कोण्डागांव	चुरेगांव	319
69	बिलासपुर	खैरी	187
70	बिलासपुर	भाड़ी	159
71	मुंगेली	गीधा	294
72	महासमुंद	लिमदरहा	185
73	महासमुंद	बिटांगीपाली	141
74	महासमुंद	नौगढ़ी	122
75	महासमुंद	पिरदा	172
76	महासमुंद	कुड़ेकेल	272
77	महासमुंद	गढ़पटनी	138
78	महासमुंद	रसोड़ा	124
79	महासमुंद	बड़गांव	130
80	महासमुंद	डूडूमचुवा	232
81	महासमुंद	बिजातीपाली	132
82	महासमुंद	रिसेकला	154
83	महासमुंद	लिमगांव	174
84	महासमुंद	बाराडोली	156
85	महासमुंद	नवापाली	124
86	महासमुंद	भोथीडीह	218
87	महासमुंद	कुटेला	295
88	महासमुंद	टांगापासा	130
89	महासमुंद	सानपंधी	110
90	महासमुंद	कलेण्डा	137
91	महासमुंद	भूकेल	135

92	महासमुंद	आर.बी.चीप	238
93	महासमुंद	दुर्गापाली	112
94	महासमुंद	धनापाली	145
95	महासमुंद	कनकेवा	217
96	महासमुंद	मेढापाली	137
97	महासमुंद	मोखापुटका	188
98	महासमुंद	गोपालपुर	159
99	महासमुंद	चारभाठा	374
100	महासमुंद	डूमरपाली	171
101	महासमुंद	सोनासिल्ली	135
102	महासमुंद	ढांक	317
103	महासमुंद	गोड़पाली	142
104	महासमुंद	जलकी	280
105	महासमुंद	कछारडीह	216
106	महासमुंद	सरगतोरा	242
107	महासमुंद	सिंधुपाली	503
108	महासमुंद	लामीडीह	684

SCHEDULE III
(To be submitted along with the offer)
Form A

Managing Director
CGCDF, Raipur

Date: _____

Dear Sir,

I/We hereby furnish below some particulars about 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) : _____
 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 issued : _____
 by the competent authority
 (Regn No. & Date)
7. GST No. _____ Dated _____
8. PAN No. (Permanent Account No.-Income Tax) _____

Note: Enclose all relevant documents in support of above.

9. Have your Co. /Unit or its sister concern ever been YES/NO
 Black listed/debarred by CGCDF or GOI/GOMP & its undertaking?
10. If Yes, when & Why? Give reason in details

Seal & Signature

Authorized Signatory of the Co.
 /Unit

SCHEDULE III
(To be submitted along with the offer)
Form B

Managing Director
CGCDF, Raipur

Date: _____

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
Authorized Signatory of the Co. /Unit

SCHEDULE – IV

Sr. No	Name of The Item	HSN Code	Req. QTY	Basic Unit Rate(Rs.) (A)	GST %per unit rate (B)	GST Amt.(Rs.) C= AxB Per Unit	Total Unit Rate is Rs. (A+C)
1	AMCU With automatic EMT		As per our requirement				
2	AMCU with milk Analyser						
3	Ultrasonic milk Analyser with Stirrer						
4	Automatic EMT						
5	EWS Capacity-200kgs						
6	DPMCU with external printer & Automatic EMT						
7	DPMCU with inbuilt thermal printer & Automatic EMT						
8	TOTAL AMC for 3 Years						

Note :

1. Requirement shown in schedule-II list of DCS is tentative and it can be increased or decreased depending upon situation prevails at the time of processing P.O. & location can be changed if required.

(SIGNATURE OF TENDERER)