

Indore Sahakari Dugdha Sangh Maryadit,

Chanda Talawali Mangaliya-INDORE - 453771 (MP)

Tel : (0731)- 2811162

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ISDS/FO/2022/1229

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e-TENDER NOTICE

On-line tenders are invited from the manufacturers/suppliers for approx. 80 Automatic Milk Collection Units with Ultrasonic milk analysers stirrer, GPRS modem compatible with NDDDB AMCU Software to be supplied to Indore cooperative milk unions in Madhya Pradesh.

The tender document can be obtained and submitted Rate Offer with technical details from the site of M.P e-procurement <https://www.mptenders.gov.in> on remitting online payment. The details relating to the tender can also be referred at Indore Sahakari Dugdha Sangh Maryadit, Indore website <http://sanchidairy.com>. Corrigendum/ Amendment if any to this publication would appear only on the above mentioned websites and will not be published elsewhere.

The cost of tender documents is Rs.2000/- (Rupees Two Thousand Only).

Key Information

Access to e-tender document	Last date and time of tender form purchase online	Last date and time of tender bid submission online	Date and time of opening technical bid	EMD required
10.03.22 to 16.03.22	16.03.22 02:00 PM	16.03.22 02:00 PM	17.03.22 02:00PM	2.00 Lakh

Chief Executive Officer

Indore Sahkari Dugdh Sangh Maryadit, Indore

Chanda Talawali, Mangliya, Indore

Tel: : (0731)- 28022554/Fax No.0731-2811559

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DOCUMENT COST Rs. 2000/-

E-tender for supply of 80 Automatic Milk Collection Units with Ultrasonic milk analysers , stirrer compatible with NDDB AMCU Software.

TENDER DOCUMENT

Schedule I	:	General Terms & Conditions.
Schedule-II	:	Specifications
Schedule III	:	Form A (To be downloaded, filled manually & scanned copy uploaded online.)
Schedule IV	:	Price Schedule
Tender Cost	:	Rs.2000/-(Rupees Two Thousand only)
Place of opening of Tender	:	At Indore Sahkari Dugdh Sangh. Mangliya Indore
Address for Communication	:	Chief Executive Officer Indore Sahkari Dugdh Sangh Chanda Talawali, Mangliya Indore (M.P.)

(Chief Executive Officer)

SCHEDULE - I

General Terms & Conditions for tender submission & material supply

Indore Sahkari Dugdh Sangh, Indore is a cooperative organization of Madhya Pradesh, invites e-tender from manufacturers/suppliers for approx. 80 Automatic Milk Collection Units with Ultrasonic milk analysers with stirrer & GPRS modem compatible with NDDDB AMCU Software to be supplied to Indore cooperative milk unions in Madhya Pradesh. The equipments should be strictly in adherence to the detailed specifications given in the schedule II of the tender documents.

Chief Executive Officer, Indore Sahkari Dugdh Sangh 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.

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. (copy to be uploaded)

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 Chief Executive Officer, Indore Sahkari Dugdh Sangh 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 rate approval order will be the sole right of Chief Executive Officer, Indore Sahkari Dugdh Sangh 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 remaining quantity from the L1 tenderer will be offered to other technically qualified tenderers on the basis of rates of L1 tenderer only.

Chief Executive Officer, Indore Sahkari Dugdh Sangh 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 financial year, GST number and without which the tender may not be entertained. (copy to be uploaded)

- 2.8 The Tenderer should submit the tender rates in the Schedule IV only in online form. 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 Chief Executive Officer, Indore Sahkari Dugdh Sangh during the supply.
- 2.11 All the following documents should be submitted online with technical documents.
- Certificate for capacity of load cell
 - Class III Duly certified and stamped by W&M Dept. of Madhya Pradesh and confirming to IS :9281(pt 1&2)1979, IS:9281 :1981 and IS:9281(Pt.4) 1983
 - Certificate from competent authority conforming IP 67 certification of load cell
 - Competant Authority / Manufacturers certificate for overload and shock load protection – minimum 300% impact of loading
 - Certfficates related to the platform SS 304, hot dip galvanised etc.
 - Manufacturer to have model approval certificate of regulatory authority/ Govt of India (Weight & Measure Unit) and ISI Mark certification.
- Supplier Shall specify the make of load cell and shall submit the BIS certificate of the Manufacturer.
- 2.12 Manufacturers will submit copy of license 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. (copy to be uploaded).
- 3.0 EARNEST MONEY DEPOSIT: (As detailed in Price bid form) / Security Deposit**
- 3.1 All the tenderers are required to deposit Earnest Money online only at www.mptenders.gov.in as specified in tender document. 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 automatically as per website rules. The earnest money deposit of the successful tenderers will be released on completion of supply/Installation/work/AMC Period as the case may be within the stipulated period without any interest amount.
- 3.3 EMD Exemption allowed only to the bidder's who registered with M.S.M.E. (Only M.P. State) and having their establishment situated in M.P. State. All bidder's who registered with M.S.M.E. in other state are liable to submit EMD Compulsory.
- 3.4 No interest will be paid on the earnest money for the period during which (the EMD) lying in deposit with Indore Sahkari Dugdh Sangh.
- 3.5 The successful tenderer has to deposit Security Deposit of @ Rs. 5.00 lakhs . The EMD will be adjusted against the Security Deposit.

4.0 PRICES:

- 4.1 Rate should be quoted on-line only 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 Indore Sahkari Dugdh Sangh, 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 Dairy Plant Indore basis.
- 4.4 The tender should clearly specify whether rates quoted are inclusive of GST.
- 4.5 If need be, 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.
- 4.7 The lowest rate shall not be the only criteria for approving the tender.

5.0 MODE OF DESPATCH:

- 5.1 The material to be supplied by successful firm shall be dispatched to the Indore dairy plant 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 would be responsibility of supplier and shall be recovered from the bills.
- 5.3 Supply, Installation and commissioning within 45 days from the date of confirmed purchase order.

6.0 LIQUIDATED DAMAGES:

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, CEO, Indore Sahkari Dugdh 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:-

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

6.1 If the 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.

7.0 **INSURANCE:**

Insurance is to be arranged by the tenderer.

8.0 **ELIGIBILITY CRITERIA**

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

8.2 The tenderers should submit copy of IT Return for last 3 years.

8.3 The tenderers should submit copy of PAN Card, Adhar Card

8.4 The tenderers should submit Filled Form-A & Form-B & attached related document as per Form A & B

8.5 The tenderer should submit EMD Online only.

8.6 The tenderer should submit copy of Registration certificate of Firm.

8.7 The tenderer should have strong service network in Madhya Pradesh to provide installation, training and onsite after-sale service at village DCS level.

The tenderer should submit the details of service centres & service personnel deployed in Madhya Pradesh.

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. 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.

9.2 Sample of the articles should be sent/produced before the competent authority if asked for within 3 days or as mutually agreed.

10.0 **PAYMENT:**

11.1 70% against delivery of machine/equipments in good condition at site and after physical inspection and verification by concern department.

11.2 Balance 20% , within 30 days of after Installation/commissioning and successful trial run of machine/equipments at DCS site.

- 11.3 Rest 10% will be paid after submission of performance gurantee for one year.
- 11.4 On the rate approval by Indore Sahkari Dugdh Sangh, the orders would be placed by Indore Milk Unions. Accordingly, payment would also be done.

11.0 WARRANTY

All the Supplied items shall be warranted for minimum three years from the date of installation.

The tenderer should have their service network in Madhya Pradesh to provide installation, training and onsite after-sale service at village DCS level. The installation shall be done by the supplier at the village DCS level at its own cost.

The details of service arrangements are given in Schedule – II.

12.0 TERMINATION OF CONTRACT:

If any act of commission or omission of a unit under contract brings to dispute, then the Indore milk Union shall be competent to debar/blacklist the unit from further business, which will be effective for all unions.

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 Indore milk union, to cancel the contract and to purchase material from any other alternate sources on the risk and cost of the defaulting supplier and it will be effective for all unions.

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, Indore Sahkari Dugdh Sangh in this respect will be final and binding on the successful tenderer.
- 14.2 For all matters of dispute, the decision of the **Honourable Chairman, Indore Sahkari Dugdh Sangh** Under Arbitration and Conciliation Act. 1996 shall be final and binding upon all the concerned.
- 14.3 For all disputes, the venue for legal course shall be at Indore.

Chief Executive Officer
Indore Sahkari Dugdh Sangh

Schedule - II : Specifications

SPECIFICATION FOR MILK ANALYSER BASED AUTOMATIC MILK COLLECTION UNIT (AMCU) FOR VILLAGE MILK COLLECTION.

1.Functional Requirements:

i . 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.

ii. 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. Bidder can offer better & higher version specs if available with them which could be considered, but without any extra weight age.

3.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 Hz + 3% / 12 V (DC)
- Ambient Temperature: 5 - 50° C
- Relative Humidity: 50 % to 95 %

4. Operational provisions:

i. 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.

ii. Warranty: All the components included in the AMCU shall be warranted for 3 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.

iii. Placement of a technician at field level per 40 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 Milk Analyzer for servicing at the nearest BMCU Centre / Chilling Centre. In case large area, the Supplier should provide servicing at site.

-During warranty period of 3 years, the posting of the technician will be as under:

AMCU installed (nos.) \leq 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 AMCU.

i. Training – Comprehensive training for 2 days in class room & Hands-on training for 4 shifts of milk collection on all operational aspects of the milk analyzer and other AMCU components to DCS/MCC staff at Village level and other officers of the PI Between 1st & 2nd month of installation refresher training in group shall be imparted at a nodal location.

ii. 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 DCS.

iii. The optional specification item, 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 by the PIs. (Supplier needs to quote the price as optional item).

Sr. No	Particulars	Specification
1.0	Basic operations at society	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
		<ul style="list-style-type: none"> • Purchase of Milk
		<ul style="list-style-type: none"> • Payments to producers for milk poured government subsidies, incentives for quality etc
		<ul style="list-style-type: none"> • Purchase of Cattle Feed
		<ul style="list-style-type: none"> • Purchase of Ghee
		<ul style="list-style-type: none"> • Other Purchases
		<ul style="list-style-type: none"> • Expenditure for Services
		<ul style="list-style-type: none"> • Other Expenditures
		<ul style="list-style-type: none"> • Local Sale of Milk
		<ul style="list-style-type: none"> • Supply/Sale of Milk to the Union
		<ul style="list-style-type: none"> • Sale of Cattle Feed
		<ul style="list-style-type: none"> • Sale of Ghee
		<ul style="list-style-type: none"> • Support for AH, AI etc
		<ul style="list-style-type: none"> • Income from
		<ul style="list-style-type: none"> • Service Other Income
		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 center as above together with the details of all transactions of the producers/MCC. Recommended to incorporate capability for online data transfer using GPRS modem to Milk Union and designated local Banks for transfer of payments to milk producers in their bank accounts directly.

Computer with Controller Software & Operating System:

Models of PC offered should be of Enterprise/Business Class Desktop PC (OEM). Home/SMB Class Desktop PC shall not be accepted.

3.0	Form Factor	Tower Model
	Processor	Intel Core i3
	Chipset	Intel Chipset supporting the above processor
	Processor frequency (GHz)	1.25-1.50
	Graphics	Integrated Intel HD Graphics supporting 1600 x 1200 resolutions
	RAM in GB	4
	Hard Drive (HDD) in GB	1000
	Ethernet Speed (Mbps)	100
	DVD R/W Drive	No
	Monitor type	LED
	Monitor screen size (Inches)	18.5
	Audio	Integrated High Definition Audio
	Operating System	Windows 8.1 Professional 64 bit Preloaded with OS Recovery Media Driver CD
	Computer Interface	RS-232,USB,Ethernet
	Ports Connectors	2 Serial Port,1 Parallel Port,1 VGA Port,1 Microphone / Headphone jack,1 RJ45 Ports, 2 PCI Slots

3.1	Application Software	The Purchaser would provide the software and application support then following conditions will apply(Presently not needed, AMCU software of NDDDB will be provided by Indore Sahkari Dugdh Sangh, its installation, training and successful run and printing of all reports for 4 collections at dcs level will be the responsibility of the tenderer, No additional cost will be paid by sangh.):
		1. Supplier to develop and provide Integrated AMCU Software for all functions & requirements of Milk collection center. Supplier to finalize requirements from EIA for all Milk Collection center, develop/modify a software and install in each AMCU with a testing period of software for 6 months from the date of installation of software and subsequent one time modifications in the software based on feedback/request from EIA/Milk Collection centers to be done without extra charges.
		2. Software shall be in Hindi & English language.

		3. Data generated from the new system shall be compatible with the format in which the data is accepted by the existing system.
		4. The software shall be user friendly, menu driven, and provide help facility in English language.
		5. The data input forms, reports, menus etc. shall be in Hindi & English.
		6. The application software, if felt essential by the user, may be modified/upgraded to meet the need of the milk collection center having Single or Cluster Bulk Milk Cooler installations.
		7. The software shall have provision of connectivity of such milk collection center with milk collection agency's head office in the future.
		8. The supplier shall also make necessary changes on case to case basis, wherever required.
		9. legal copy of the database used
4.0	GPRS Communication Unit	GPRS Specification
	Quad-band	850/900/1800/1900MHz
	GPRS Multi-slot Class	12, 1~12 configurable
	GPRS Mobile Station	Class B
	Compliant to GSM	Class 4
	Phase 2/2+	(2W @ 850/ 900MHz) Class 1, (1W @ 1800/1900MHz)
	Supply Voltage Range	3.3~4.6V 4.0V nominal
	Low Power Consumption	1.3mA @ DRX=5 1.2mA @ DRX=9
	Operation Temperature	-40 °C to +85 °C
	Control via AT Command	GSM 07.07, 07.05 and other Enhanced AT Commands UART Interface
	Specifications for Data GPRS Class 12	Max. 85.6 kbps (uplink & downlink)
	PBCCH Support Coding Schemes USSD	CS 1, 2, 3, 4
	Non Transparent Mode Protocols	PP/TCP/UDP/FTP/HTTP/SMTP/ SSL/MUX
	Certificates	CE FCC GCF PTCRB NCC ANATEL IC ICASA UCRF A-Tick Vodafone Rogers

5.0	<u>Dot Matrix Printer</u>	Epson / TVSE / Equivalent
5.1	Print Method	Impact dot Matrix external printer
5.2	Pins in head	24pins
5.3	Print Direction	Bi-direction parallel interface USB2.0 (Full speed)
5.4	Print speed	300 cps high speed draft, LQ and other features
5.5	Printable column	80 (10dpi)
5.6	Paper Handling	Pull tractor unit
5.7	Paper Path	Manual insertion- front or rear in – top out; Push Tractor- front or rear in-top out, Pull Tractor–front or rear or bottom in and top out.
5.8	MTBF	10000 POH (25%Duty)
5.9	Copy Capability	Original+3 copies
5.10	Cartridge	Ribbon cartridge Black, with 2.5 million characters
5.11	Compatible OS with drivers	MS Windows 8/7/Vista/XP (32bit/64bit), Windows Server 2003/ 2008/ 2012 (32bit/64bit),MacOSXv10.3.9,10.4, 10.5,10.6,UNIX,LINUX
5.12	Accessories	Roll stand

6.0	Electronic Weigh scale	Specification
6.1	Functional Requirement	To Electronically weigh & digital display of milk quantity in litre In a Container
6.2	Capacity	200kg
6.3	Least Count	20gm
6.4	Weight Accuracy	20gm as per Standards of W&M Rules 1987 medium accuracy Class III
6.5	Display Resolution	1/10,000, (accuracy class III)
6.6	Load Cell	Single,IP67,grade SS of certified and approved make
6.7	Overload & shock Load protection	300% to take impact of loading, with audio (beep) visual Indication
6.8	Platform Size	600mmx600mm
6.9	Platform MoC	AISI SS 304,1.6 mm thick, 150 grit top plate
6.10	Platform under Frame material / Design	Cold rolled mild steel box of adequate size. Hot dip galvanized after fabrication All screw/bolts/nuts to be of SS
6.11	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
6.12	Display Unit mounting	Pole mounted type with sturdy base and SS304, 38 mm dia. Pipe-1.2m high SS 304 Body IP55, 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.
6.13	Calibration protection & Sealing Arrangement	Special arrangement to house PCB & sealing arrangement. Password protection at user end.

6.14	Load cell Cable	Load cell cable from platform to display unit with reinforced Heavy duty PVC conduit.
6.15	Battery for working on power failure	Inbuilt, 6V capacity minimum for 12hrs.
6.16	Power Supply	As given above with minimum 1m power cable with plug top AC/DC
6.17	Model Approval Certificate	Manufacturer to have model approval certificate of regulatory Authority /Govt. of India (Weight & Measure Unit)
6.18	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 1 st year only. Stamping of each weighing scale from 2 nd year onwards will be in the scope of PI.
6.19	BIS Certificate	Electronic Weighing scale should have ISI Mark
6.20	Certification & Stamping	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 amended up-to-date. Copy of BIS License of manufacturer of load cell should be provided.

7.0	Milk Analyzer	Specification
7.1	Functional Requirements	To test & display fat, SNF & added water of sample milk
7.2	Type	Ultrasonic principle based milk analyzer for testing fat, SNF & added water Measuring parameters: Fat – 0.5% to 12% , with accuracy +/- 0.1%, with SNF – 6% to 12% , with accuracy +/- 0.2, with Resolution: 0.01% and Repeatability: +/-0.05 % Added water – 0% to 60%, with accuracy +/-5% with Resolution: 1% and Repeatability 0.5% Measuring cycle-40 Sec per sample Average testing speed - 70 samples/ hr.
7.3	Operational abilities	Mode selection for type of milk – (1) Cow, Buffalo, Mixed / Single Curve with Cleaning, Calibration, System error list etc.
7.4	MoC for enclosure	AISI 304 0.75 mm thick minimum
7.5	Loose Accessories	Holding bottom tray for spillage- 1 No. RS 232 Serial Cable- 1 No. cable with plug top- 1 No. Measuring mugs-2 No A C Power Daily cleaning solution – No. of Bottle 3 (Quantity minimum 200 ml or equivalent). Weekly cleaning solution - No. of Bottle 2 (Quantity minimum 200 ml or equivalent) or Monthly cleaning solution - No. of Bottle 1 (Quantity minimum 200 ml or equivalent)
7.6	Manual	Operating Manual each in Hindi language.
7.7	Certification	Milk Analyzer should be CE certified

Advanced additional feature:

Feature	Benefit
Secured calibration	I Smart Bluetooth enabled device and secured calibration through mobile app. Only authorized person can operate through secured mobile app, hence error free calibration without any manual intervention. All the historical data of calibration is stored on the cloud
Preventive maintenance	Since I Smart is Bluetooth enabled, the system is capable of recording Cleaning data and Error Log.

8.0	Ultrasonic Milk Sample Stirrer	Specification
8.1	Functional Requirement	To remove air from fresh milk sample by vibrations created in the Milk before testing of milk.
8.2	Type	Table top, Ultrasonic Stirrer
8.3	Stirrer for Ultrasonic Stirrer	SS Ball type
8.4	Ultrasonic Frequency	20-25KHz(Variable)
8.5	Timer	1-99 Sec selectable
8.6	Environment	Suitable for dusty /humid village environment, operating temperature-5 to 50 Degree C
8.7	Connecting Cables	Minimum 1.5 m Power cable with plug top.
8.8	MoC for body	MS Body / AISI304,1.2mm thick minimum
8.9	Operating Voltage	230Volts +/-10,AC,50Hzand12Volts DC

9.0	Remote Display Unit (RDU)	Specification
9.1	Functional Requirement	To display pourer members milk collected & milk testing and Other selected parameters in English/ Local Language
9.2	Type	Wall mounted type
9.3	Display Parameters -8No.	i. Member's code- 3 to 16 digits; ii.CattleType-1character, lii. MilkWeight-5digits; iv. Fat%-4digits; v.SNF%-4 digits vi.RateinRs-5digits; vii.AmountinRs.-6 digits generally to meet the need of the users.
9.4	Interface	RS-232 /USB Host
9.5	Display Type	7 Bright segments, Red LED, 25mm, 33No., 11 in each row with 3rows (or suitable to meet the requirement)
9.6	Labels for display	Screen printed
9.7	Environment	Dusty, Humid, preferably housing to be with IP55 or equivalent protection, rustproof powder coated Metallic.
9.8	Connecting Cables	Minimum 5m Power cable with plug top with connector at both ends

10.0	UPS	
10.1	Functional Requirement	To give regulated AC power to AMCU from mains or attached battery
10.2	Type	Line-Interactive type
10.3	Capacity	1500 VA minimum
10.4	Backup time (Full Load)	3-hrs minimum (in one shift)
10.5	Output Wave Form	Sine Wave /Quasi Sine wave
10.6	Voltage at input	160-280V(±10%)
10.7	DC Voltage Bus	24V
10.8	Voltage at output (With mains as well as with battery) With inbuilt AVR	220V+/-10%
10.9	Full protection	Inbuilt protection- Under /Over voltage, Short-circuit, Overload Cutoff, Low Battery Cut-off, Spikes cut-off
10.10	Warning (LED+ Sound)	Low Battery & Overloads
10.11	Input /Output Frequency	50Hz+/- 3Hz,No Correction
	Battery switchover	Battery switchover in 3-10 milliseconds
10.12	Battery Charging	Preferably to take place even at 130& 300V with SMPS Charger Boost charging at minimum 7A & Battery over charge protection
10.13	Battery No. and Type	2 No 90 AH Tubular, Acid filled, low maintenance battery with Level indicator (Maintenance free Battery desirable)
10.14	Charging Indicator	Battery charging indicator plus low battery /fault indicator to be provided
10.15	Battery Steel Rack	Required
10.16	Leads between UPS & Battery	Flexible, Cu conductor PVC, Minimum 1m with lugs at both ends.
10.17	Warranty of Battery	3 years against manufacturing defect.
10.18	Steel rack for UPS	Required to place UPS above floor
10.19	No load loss at 24 Volt when UPS is ON	Minimum

11.0	Earthing	Earth Electrode (Gel type) (Optional)
11.1	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.
11.2	Pipe Material	Galvanized Pipe as per IS:1239
11.3	Class of Pipe	Class-B
11.4	Diameter (Outer Dia.)	48 mm
11.5	Length	2 Meter
11.6	Wall Thickness	2.5 mm
11.7	Primary Electrode	Mild Steel Strip
11.8	Mild Steel Strip	2.12m long, 32mm wide and 6 mm thick
11.9	MS Strip hot dip galvanized Thickness	110 micron
11.10	Gel Filled	Highly non-corrosive compound
11.11	Earth wire to connect Electrode with Power supply.	Copper 8m long & 8mm dia suitable for interconnection
11.12	Filling compound	Adequate
11.13	Civil works	Chamber to secure the earthing
		Earthing: Bidder should install and provide all in puts /material for proper earthing as per IScode /Local Electricity Board Regulation. The scope of work includes excavation for earthpit, construction of chamber, filling with necessary materials and complete with cover. Supplier will test and demonstrate the resistance as per local EB requirement and furnish record as required.

12. 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 proper earthing as per local Electricity Board Regulations. AMCU software will be provided by Indore Sahkari Dugdh Sangh, its installation and successful run at dcs level will be the responsibility of the tenderer, No additional cost will be paid by sangh.

(Signature and Seal of the Bidder)

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

To

Chief Executive Officer
Indore Sahkari Dugdh Sangh

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: Enclosed above document of Point 6 to 8.

10. Have your Co. /Unit or its sister concern ever been Black listed/debarred by MPCDF or its affiliated Milk Unions or GOI/GOMP & its undertaking? YES/NO

11. If Yes, when & Why? Give reason in details

Seal & Signature
Authorized Signatory of the Co. /Unit

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

To

Chief Executive Officer
Indore Sahkari Dugdh Sangh

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 (Units/month) : _____
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 ? :
6. Has company been blacklisted by any : Yes / No
Dugdha Sangh / Govt. Agency presently

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

Indore Sahkari Dugdh Sangh
Chanda Talawali, Mangliya, Indore(M.P.)-453771

SCHEDULE – IV

S.No.	Item	Requirement (approx.)	EMD Required (Rs. in Lakh)	Offered Quantity (Number)	Rate/Unit F.O.R. Dairy Plant Indore Inclusive of GST (In Rs.)
1.	Automatic Milk Collection Units with Ultrasonic milk Analyser with stirrer(With out AMCU S/w)	80	2.00		

Note :

1. Requirement shown above is tentative and it can be increased or decreased depending upon situation prevails at the time of processing P.O.