

Managing Director, West Bengal Cooperative Milk Producers' Federation Limited is pleased to invite Tender for supply with commissioning & Demonstration of Ultrasonic Milk Analyzer to be used for testing of FAT, SNF, PROTEIN and added Water (approximately 12 numbers) from **eligible Manufacturers** with proven experience on the field for Sales & Service of the said items.

Specification, technical details and scope of work given below:

Functional Requirement: To test FAT, SNF, PROTEIN and Added Water present in the milk.

Type: Ultrasonic principle based milk analyzer for testing fat, SNF, Protein & added water

• Measuring parameters:

- 1) Fat – 0.5% to 12% , with accuracy +/- 0.1%, with Resolution: 0.01% and Repeatability: +/-0.05 %
- 2) SNF – 6% to 12% , with accuracy +/- 0.2, with Resolution: 0.01% and Repeatability: +/-0.05 %
- 3) PROTEIN – 2% to 7% with accuracy +/- 0.15%
- 4) Added water – 0% to 60%, with accuracy +/-5% with Resolution: 1% and Repeatability 0.5%
- 5) CLR – 0.40% with accuracy +/- 0.50%

• Measuring cycle-40 Second per sample

• Average testing speed - 70 samples/ hr

Operational Abilities required: Mode selection for type of milk – Cow, Buffalo, Mixed / Single Curve with Cleaning, Calibration, System error list etc.

MoC for enclosure: AISI 304 (0.75 mm thick minimum).

Calibration: Milk Analyzer should be calibrated through Mobile Application as well as cloud only. No human manual intervention for the calibration would be there. Calibration History should be available. Calibration data should be stored and encrypted and all data transfer would be in encrypted mode.

Self Health Check-up facility: With the help of Android Mobile App, Milk Analyzer should be self-intelligent to check preventive health of internal hardware before start. Analyzer should not start in absence of mobile application or failure of self-test.

Interface: Analyzer should have USB host device interface to extract all data and authorized RS232 & Bluetooth.

Loose Accessories:

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).

Weekly cleaning solution - No. of Bottle 2 (Quantity minimum 200 ml or equivalent)

Monthly cleaning solution - No. of Bottle 1 (Quantity minimum 200 ml or equivalent)

Maual: Operating Manual each in English & Local language (Bengali) per Analyzer to be provided.

Ultrasonic Cleaner : It should be suitable for the Analyzer

Ultrasonic Milk Sample Stirrer :

To remove air from fresh milk sample by vibrations created in the milk before testing of milk. It should be SS ball type, Table top type Ultrasonic Stirrer. Should be of 20-25 KHz (Variable) . It should be suitable for dusty/humid village environment, operating temperature -5 to 50 Degree C. Minimum 1.5 m Power cable with plug top is to be provided. The unit should be complete in all respect with required electric/electronic parts, ready for use at site. MoC for body should be of AISI 304- 1.2 mm sheet. Operating voltage should be 230 Volts +/- 10, AC, 50 Hz and 12 Volts DC.

Last date for submission of the Tender along with credential certificates, technical details, company profile, tax clearance certificate, PAN,TIN,TAN copy, and other relevant documents along with rate per unit (to be mentioned basic rate which includes freight upto sites, Commissioning & Demonstration. GST applicable to be mentioned separately, and total rate inclusive all is to be mentioned per unit) is 12.12.2019 (up to 5.00 PM) . The intending participants are requested to submit price bid in tabular form as mentioned below;

Sl. No	Name & Description of the item	Quantity	Basic Price/Unit (including freight, commissioning & Demonstration) (In Rs.)	GST applicable/Unit (In Rs.)	Total Price (inclusive all per unit) (In Rs.)

Intending Bidders have to physically demonstrate the machine successfully at the Milk Federation Office (Address: West Bengal Milk Federation, LB-2, Sector- III, Salt Lake City, Kolkata-700106) on 16.12.2019 (the date is tentative and may be changed if required) failing which the submitted tender will be rejected.

Interested bidders may submit their bids in envelop duly Gala sealed and super-scribing NIT No. & “Not to be opened” at the top of the envelop to the following Address:

The Managing Director, West Bengal Cooperative Milk Producers’ Federation Limited, LB-2, Sector-III, Salt Lake City, Kolkata- 700 106.

Bid Validity:

The bid shall remain valid for a period of (365) Three hundred Sixty Five days form the date of opening of the bid. Bids/Tenders shall be opened on 13.12.2019 (the date is tentative and may be changed if required).

Security deposit:

Bidder/Tenderer who would be awarded work order on the basis of Technical evaluation and financial evaluation (lowest), has to deposit security money @ 2% of total work order value

within Ten days from the date of receipt of work order by D/D, RTGS, NEFT, A/c payee cheque failing of which the said order shall be considered as invalid.

Payment Terms:

60% of work order value shall be released on delivery/supply of equipment at specified site (around 150 KM from Kolkata, mostly in Bardhaman district). 30% shall be released on satisfactory installation, Commissioning, Demonstration and training of whole unit. Balance 10% shall be released after one (1) year from commissioning date or on submission of performance bank guarantee equivalent to 10% for one year.

Supply, Commissioning & Demo:

Within 30 days from the date of Purchase Order.

Specification:

The specification must be maintained as given in the NIT.

After sale's Service:

The successful bidder will have to rectify / troubleshoot any complaint regarding improper functioning / nonfunctioning of the machine within 48 Hours from the date & time of complaint lodged by the concerned milk Union during warranty period free of cost. The bidders should have service Centre in West Bengal for providing instant service as mentioned.

Warranty/Guarantee:

One year from the date of successful Commissioning of the machines.

All correspondence shall be made in the name of ; **Managing Director, West Bengal Cooperative Milk Producers' Federation Limited, LB-2, Sector-III, Salt Lake City, Kolkata- 700 106.**

The Managing Director, West Bengal Co-operative Milk Producers' Federation Limited at its sole discretion may accept or reject any or all the bids either in part or in full. West Bengal Co-operative Milk Producers' Federation Limited at Kolkata also does not bind itself to accept the lowest bid. Canvassing in any form will be taken as disqualification.

Managing Director