

**BHOPAL SAHAKARI DUGDH SANGH
MARYADIT HABIBGANJ,
BHOPAL 462024**



**Supply, installation and commissioning of FTIR Technology
Based Milk Analyzer Tender**

CHIEF EXECUTIVE OFFICER
BHOPAL SAHAKARI DUGDH SANGH MARYADIT
HABIBGANJ, BHOPAL 462024



BHOPAL SAHAKARI DUGDH SANGH MARYADIT

HABIBGANJ, BHOPAL 462024

AN ISO 9001 : 2015 Certified Organization

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Ref No: 55

Dated: 28-10-2022

NOTICE INVITING E-TENDER

Online Tenders are invited for supply, installation and commissioning of **FTIR Technology Based Milk Analyzer** at Bhopal Sahakari Dugdh Sangh from reputed manufacturer/distributor/dealer/suppliers. The tender documents containing the terms and conditions can be purchased online & downloaded through following website <http://www.mptenders.gov.in> from 28.10.2022 onwards. The tender will be opened in the office of the undersigned as mentioned in tender time schedule(key date). The detailed Tender Form can be seen (only for reference) at our HO website: www.sanchibhopal.com. Any changes in tender documents will be notified on above website only and not at any other sources/platforms, hence bidders are requested to visit the site regularly. The Chief Executive Officer Bhopal Sahakari Dugdh Sangh Maryadit has all the right to accept or reject any or all bids.

Name of item	EMD (Rs)	Tender Fee (Rs)	Bid submission due date & time	Technical Bid opening Date & time
FTIR Technology Based Milk Analyzer	2,00,000/-	2000/-	17.11.2022 03:00 PM	18.11.2022 03:00 PM

CHIEF EXECUTIVE OFFICER

BHOPAL SAHAKARI DUGDH SANGH MARYADIT

HABIBGANJ, BHOPAL 462024

AN ISO 9001: 2000 Certified Organization

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TENDER DOCUMENT

Schedule I	:	General Terms & Conditions.
Schedule II	:	Terms, Conditions and Technical Specifications
Schedule III	:	Form A (To be downloaded filled manually & Scanned copy uploaded online.)
Schedule IV	:	Price Bid (Form-B)
Tender Cost	:	Rs.2000/-(Two Thousand only) (Including GST, non- refundable)
Place of opening of Tender	:	Meeting Hall of The Bhopal Sahakari Dugdha Sangh Maryadit, Bhopal.
Address for Communication	:	The CEO, Bhopal Sahakari Dugdha Sangh Maryadit, Bhopal 462024

CHIEF EXECUTIVE OFFICER

General Terms & Conditions for Tender Submission & Supply

Bhopal Sahakari Dugdha Sangh Mydt, Bhopal (BSDSM), an ISO certified cooperative organization, invites online tenders from bonafide manufacturers and/ or their authorized dealers or other suppliers for supply, installation and commissioning of **FTIR Technology Based Milk Analyzer** strictly in adherence to the detailed specifications given in the schedule II of the tender documents.

Bhopal Sahakari Dugdha Sangh Mydt., Bhopal 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 The tenderer(s) should clearly state in their offer the address, telephone, fax, e-mail, PAN and GST Numbers. Any change in the address should immediately be communicated to the Chief Executive Officer, Bhopal Sahakari Dugdha Sangh Mydt, Bhopal and correspondence thereafter will be made at the changed address.
- 2.3 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.
- 2.4 The acceptance of the tender and award of the purchase order will be the sole right of the Chief Executive Officer, Bhopal Sah. Dugdha Sangh Mydt. 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.
- 2.5 The Chief Executive Officer, BSDSM 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.
- 2.6 Each tender should be accompanied with copy of PAN, GST, Company/Firm Registration and ITR of 2 Assessment Year (2020-21, 2021-22).
- 2.7 The tenderers should submit the rates online only. The conditional tenders are liable to be rejected.
- 2.8 No person or firm is permitted to submit more than one tender under different names.
- 2.9 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, BSDSM.

- 2.10 OEM will be given preference. Copy of license is to be attached with tender for each item filled in, authorized distributor with the item will have to attach copy of authorization certificate of the manufacturer.
- 2.11 Tenderer shall fill all the details of the unit in the enclosed form- A in schedule-III. (To be uploaded –mandatory.)
- 2.12 Consumables / Spares price list for current year is also required.

Bid Validity

Bid shall be valid for a period of 90 days from the date of opening.

Documents composing the Bid

Technical bid: (To be uploaded online mandatory)

1. Form A filled with copy of PAN, GST, Company/Firm Registration or Factory License, ITR of 2 Assessment Year (2020-21, 2021-22) and other documents as per bidder's check list.
2. Online EMD transaction acknowledgement or EMD exemption certificate (if applicable see **Sr. No. 3.2**)

Commercial/Financial Bid

- Commercial/Financial Bid form online (submit online in excel format only)

Bid price

- Price indicated on the price schedule shall be inclusive of pkg/frdg, freight. GST (to be shown extra)
- Evaluation Method– Total value wise evaluation.
- BSDS reserve the right to order only Milk Analyzer machine or Milk Analyzer machine with AMC.

Note:- When submitting EMD online please note that you pay only the EMD of particular item you would like to offer the rate. By choosing "Yes" option (in mptenders.gov.in portal) so as to enable you for EMD exemption.

3.0 Earnest Money Deposit (Rs.2,00,000/-)

- 3.1 EMD should be submitted online only and attach copy of proof for payment of EMD in technical bid.
- 3.2 **MSME industries of The Madhya Pradesh State** will be exempted from payment of the EMD and tender fee of the tender. (MSME Certificate to be uploaded online mandatory)
- 3.3 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 90 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 as the case may be within the stipulated period.
- 3.4 No interest will be paid on the earnest money for the period during which (the EMD) lies in deposit with Bhopal Sahakari Dugdha Sangh.Maryadit.
 - EMD may be forfeited :
 - If successful Bidder/supplier fails/denies to perform work.
 - If any bidder/supplier withdraw its bid during the bid validity period.

4.0 PRICES:

- 4.1 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. BSDS will have the right to extend the validity of the tender approval by 6 months. We would communicate our rate approval within 60 days of opening of tender.
- 4.2 The tenderer should quote rate on FOR dairy plant Bhopal basis (GST shall be extra)
- 4.3 If need be, negotiations will be done for prices and as well as terms & conditions of material supply as per CVC guidelines only with the party which offers the lowest rate.
- 4.4 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.
- 4.5 The lowest rate shall not be the only criteria for approving the tender.
- 4.6 The FTIR technology based Milk Analyzer shall be covered under one year warranty period from the date of installation and one year free service (non-comprehensive) after expiry of warranty 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 dispatch of material/documents shall be the responsibility of supplier and shall be recovered from the bills.
- 5.3 Delivery Period is 75 days from date of Purchase Order.

6.0 LIQUIDATED DAMAGES:

- 6.1 Delivery date are fixed for supply of material they shall be strictly adhered too. In case they are not followed, or in case of delay in execution or non-execution of the order, the Dugdha Sangh reserves the right either to cancel the order and make alternative purchases from other sources, at the risk and cost & expenses of the defaulting supplier. In case the supplies are not affected as per the schedules, the liquidated damages may be charged on the goods not so delivered as under:-

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.

- 6.2 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.
- 6.3 If the qualified tenderer fails to make supply the materials as per specification/material quality/printing as per BSDS's approved specification, then the entire requirement shall be fulfilled through the other bidders and if the other bidders didn't agree to supply the material on L-1 approved rates the difference amount would be charged from deposited EMD or their pending bills of L-1 bidders.

7.0 INSURANCE:

Insurance is to be arranged by the tenderer.

8.0 INSPECTION:

All the supplies are subject to inspection at our plant 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 their risk and expenses or disposed off in Auction and the proceeds, if any, less expenses would be credited to tenderer's account.

9.0 PAYMENT:

9.1 Bills in triplicate shall be submitted along with a copy of P.O.

9.2 Mode of Payment-

(i) For supply, installation and commissioning of Machine

- A. 30% of the ex-works order value (basic cost) shall be paid on acceptance of the order subject to the supplier furnishing a Bank Guarantee valid 40% order value (basic cost) for 12 calendar months from the date of guarantee for an equivalent amount from a scheduled or Nationalized Bank. The Bank Guarantee can be released by Bhopal Milk union once the advance is fully recovered /adjusted.
- B. 50% (80% in case of the supplier/contractor who has not taken advance) on safe receipt of the equipment ordered at site and physical inspection and verification by concern department of machine/equipment in good condition at Dairy Plant Bhopal
- C. The 10% of FOR site value shall be paid after successful commissioning and satisfactory report submitted by concern department.
- D. Balance 10% of the FOR site value shall be paid upon 12 calendar months from the date of commissioning or 24 months from the date of receipt of the same at site, whichever is earlier. However, this balance 10% will also be released, if so desired by the supplier, provided the supplier furnishes a Bank Guarantee from a Scheduled or Nationalized Bank for the 10% value valid for a period of 12 calendar months from the date of commissioning.

(ii) For AMC of Machine

- A. Quarterly basis payment will be done after bill submission.

9.3 Any other statutory deduction like TDS etc as applicable.

10.0 TERMINATION OF CONTRACT:

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

11.0 SIGNING OF AGREEMENT:

Successful tenderer shall sign into an agreement with BSDSM, Bhopal in the non-judicial stamp paper of Rs.1000 /- within 15 days after receipt of rate approval order. Draft of agreement will be provides by BSDSM, Bhopal to the successful tender.

12.0 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, Bhopal Sahakari Dugdha Sangh Mydt. to cancel the contract and to purchase material from any other alternate sources on the risk and cost of the defaulting unit.

13.0 FORCE MAJEURE:

13.1 Failure or delay in the part of bidder for supply due to force majeure causes enumerated here under shall be considered, provided the supplier produces documentary evidence.

i. Any cause which is beyond the reasonable control of the bidder.

ii. Natural phenomena, such as floods, drought, earthquakes and epidemics.

iii. Act of any Govt. Authority, domestic or foreign, such as wars declared or undeclared quarantines, embargoes licensing control on production or distribution restrictions.

iv. Accident and disruptions such as fire, explosion, increase in power cut with respect to date of tender opening etc.

v. Strikes, slow down and lockouts.

13.2 The cause of force majeure condition will be taken into consideration only if the supplier notifies within 30 days from the occurrence of such eventualities. The purchaser shall verify the facts and grant such extension as the facts justify. For extension due to force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the purchaser shall be binding on the time.

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, Bhopal Dugdha Sangh Mydt., in this respect will be final and binding on the successful tenderer.

14.2 In any case of dispute between material/services supplier and Bhopal Dugdha Sangh Mydt matter will be present to MD, MPCDF for resolution.

14.3 All disputes between tenderers and BSDS matter will be put to MD, MPCDF for resolution. In case no resolution action will be taken as per Arbitration Act 1996.

14.4 For all disputes, the venue for legal course shall be at Bhopal.

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

*Chief Executive Officer
Bhopal Sahakari Dugdha Sangh Mydt. Bhopal*

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Terms, Conditions, Scope of Work and Technical Specifications: FTIR Technology Based Milk Analyzer

1. Application
 - a) The equipment should be used for analysis of milk and milk products, adulteration screen in and quality determination of raw, intermediate and processed milk.
 - b) Products to be analysed: Milk (Raw and processed), Cream, Whey and Yoghurt and fermented product, chocolate milk etc.
2. Consumable and Accessories: Equipment should be supplied along with appropriate reagents, consumables, spares and accessories for routine operations for approximate analysis of 20000 samples during the warranty period.

The requirement of these supplies for samples would be given to bidder on six monthly basis or on mutually agreeable dates.
3. Training: Basic training on operation/maintenance to be arranged by the bidder after installation of the equipment along with calibration development to be done for parallel/alternate milk products. The advance training on these should be conducted as per the request from end user, on mutually agreeable dates. The equipment should also be supplied with user manuals required for installation and training.
4. Warranty: Equipment shall be supplied with minimum a warranty of one year from the date of installation. Bidder should undertake on site minimum one preventive maintenance visits during the warranty period apart from the breakdown visits. Warranty would apply to all the accessories supplied by bidder. Bidder shall provide service within 48 hrs after registering the complaint during warranty and AMC period.

Warranty extension: If equipment has been down for more than 30 days due to malfunctioning of the any part supplied by bidder or want of spares/ consumable, warranty would be extended.
5. Demonstration and Evaluation: BSDSM reserves the right to verify the performance of equipment at any stage of purchase process. The bidder is requested to arrange all the prerequisite timely for successful demonstration and evaluation if demanded by BSDSM.
6. No offering of refurbished/assembled/demo modules: No part of the offered equipment shall be refurbished or used in demonstration purpose. Kindly submit undertaking.
7. 3rd year AMC price should be quoted separately, this should be valid after expiry of one year warranty and expiry of next year service (non-comprehensive) period.
8. It is the responsibility of vendor to supply a complete solution / unit for the analysis.
9. The supply of spares/consumables (20000 samples) should be free of cost from the day of installation.
10. Bidder have to submit price list of the required part/ consumable along with technical bid.
11. Past Performance: The bidder should have successfully executed / completed minimum three contracts of similar nature (quoted model) during the previous five financial years to various Cooperatives, Unions, Govt Institutes or reputed private companies in India. Copy of purchase order and performance certificates to be submitted.

AMC Scope of Work

1. Service contract should be valid for one year.
2. Minimum four routine visit is required during the tenure that will be based on quarterly basis.
3. Cost of additional visit during breakdown should be included, no extra charge will be paid by milk union.
4. Remote support over the call or TeamViewer / AnyDesk should be provided round the clock as per BSDS need.
5. New application and method development support is required by the bidder as per features of instrument as and when required to dairy for new product development.
6. Preventive maintenance should be done during AMC contract (Cost of PM kit will be included).
7. Complaint should be attended by service engineer within 48 hours through any mode of communication should plan for visit accordingly as required.
8. One training session for 1-2 hours should be organized by the bidder during AMC period at BSDS for instrument operators. Training session should include overall operations, queries related to instrument handling, troubleshooting and maintenance.

Technical Specification: FT – IR Technology Based Milk Analyzer

The instrument should be intelligent for rapid platform control and segregation, fair payment, and screening for abnormalities. Product standardisation for optimal use of raw material and consistent quality products & monitoring the quality of final products.

Instrument should work on FTIR Technology for analysis of milk, and other dairy products analysis.

Sample Type: It may perform the compositional analysis of liquid and semi-solid dairy products such as milk, cream, whey, yoghurt & fermented product, chocolate milk etc.

Instrument should have the function of automatic standardisation every second hour to eliminate the instrument drift and ensures stable results over time.

Instrument should have the smart flow system to recognize and auto-adjust to each sample following its viscosity and deliver quick results to provide accurate testing of any liquid or semi-solid dairy product.

Trouble shooting: Instrument should have self-diagnostic system that continuously monitors the condition of all the vital components, wear time logging, service history and provides fast and easy troubleshooting & to resolve issues.

Instrument should have the automatic humidity control to protect the automatic drying system.

Instrument should be supplied with branded PC, Suitable UPS and printer for equipment operation for sufficient data storage, speed and ease of operation, sufficient ports for transferring online data and support data transmission with integration software should be available

The instrument should be compliance with AOAC (Association of Analytical Chemists) and IDF (International Dairy Federation).

Technical Specifications:

Instrument should be supplied with included calibrations as: -

Milk: Fat, protein, total solids, solids non-fat, lactose (incl. low lactose products), glucose, galactose, density, urea, titratable acidity, free fatty acids, casein, citric acid

Cream: Fat, protein, lactose, total solids, solids non fat

Whey & whey permeate: Fat, protein, lactose, total solids, solids non-fat, titratable acidity

Concentrated & Fortified Milk: Fat, protein, lactose, total solids, solids non fat

Yogurt & Fermented Product: Fat, protein, lactose, total solids, solids non fat, glucose, fructose, sucrose, total sugars, lactic acid

Instrument should be able to screen at least following adulteration in raw as well processed milk as parameters with LODs: -

Parameters	LODs or better (%)	Parameters	LODs or better (%)
Ammonium Sulphate	0.015	Sodium Carbonate	0.010
Glucose	0.065	Sodium Chloride	0.16
Sorbitol	0.055	Sodium Citrate	0.038
Maltose	0.060	Sodium Nitrate	0.005
Melamine	0.015	Sucrose	0.040
Sodium bicarbonate	0.010	Added Urea	0.030
Added Water	7.00	Added Fat Indicator	0.036
Formaldehyde	0.040	Maltodextrin	0.05

Accuracy (Milk): <1.0% C_v or better.

Repeatability (Milk): <0.25.0% C_v or better.

Sample volume for milk & cream should not be greater than 8 ml

Adjustment should be via automated slope or intercept procedure. Automatic zero setting and clean

Measurement time (Milk): 30 seconds

Sample Temperature: 5 - 55 °C

Ambient temperature: 10 - 35 °C



**BHOPAL SAHAKARI DUGDHA SANGH MARYADIT,
HABIBGANJ, BHOPAL 462024**

SCHEDULE – III

**Form – A
(To be uploaded -mandatory)**

Chief Executive Officer
BSDSM, Bhopal

Date:

Dear Sir,

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

1. Name of the Co./Unit : _____
2. Address of the Co./Unit : _____

3. Telephone Nos.(with STD Code): _____
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. We are manufacturer/distributor/dealer/supplier ofCo.(with proof)
8. GST NO dtd.....
9. PAN Number (Permanent Account Number- Income Tax) :.....
10. Have your Co./Unit or its sister concern ever been black listed/ debarred by BSDSM or its sister Milk Unions or GOI /GOMP & its undertaking ? YES / NO.
11. I/WE HAVE READ THE TERMS AND CONDITIONS OF THE TENDER DOCUMENT WHICH ARE ACCEPTABLE TO ME/US. NO ADDITIONAL CONDITION DEVIATION OR POINT OF DIFFERENCE HAS BEEN GIVEN BY ME/US. I AM PROPRIETOR/MANAGER/DIRECTOR..... OF THE TENDERING FIRM AND HAVE BEEN AUTHORISED TO SUBMIT THE AUTHORITY LETTER IN THIS REGARDS IS ENCLOSED HEREWITH.

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



**BHOPAL SAHAKARI DUGDHA SANGH MARYADIT
HABIBGANJ, BHOPAL 462024**

SCHEDULE – IV

**Form – B
(To be submitted Financial Bid Online only)**

S. No.	DESCRIPTION	Rate/unit F.O.R Bhopal Dairy (GST shall be Extra.)
1	FTIR Technology Based Milk Analyzer	---online only---
2	AMC Prices for 3 rd year (after warranty and one year free service)	---online only---

Note: Purely indicative for e-tender as the rates are required to be filled on these lines in the prescribed BOQ in Excel format.

BIDDER'S CHECK LIST BEFORE TENDER SUBMISSION

(To be uploaded all mandatory documents scanned copy with seal and sign, online mandatory)

Note: - All the documents are necessary in technical bid. Lack of any document in the technical bid may lead to disqualification of the tender.

S. No.	Tender Submission Check Points (mandatory documents)	Check before submission (write Yes or No)
1.	Online tender Fee and EMD payment transaction acknowledgement or EMD exemption MSME certificate copy	
2.	Form A of Schedule-III (with seal & sign)	
3.	The Authority letter on letter head (with seal & sign) as per Clause no.11 of Form-A, Schedule-III.	
4.	PAN Card Copy (with seal & sign)	
5.	GST Certificate Copy (with seal & sign)	
6.	Company/Firm Registration or Factory License Copy (with seal & sign)	
7.	ITR of 2 Assessment Year (2020-21, 2021-22) (with seal & sign)	
8.	Undertaking by the bidder that the bidder is not black listed by any Co-operative Milk Union/ State Milk Federation/Govt. Agencies.	
9.	Audited profit and loss account for the year 2020-21 to 2021-22	
10.	Credentials in support of supply and commissioning of FTIR technology based Milk Analyzer (Copy of purchase order and performance certificates to be submitted)	
11.	Installation and performance certificate issued by the clients are to be furnished	
12.	Duly filled in Manufacturers' authorization letter (for authorized channel partner)	
13.	Bidder have to submit price list of the required part/ consumable along with technical bid.	

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