

GWALIOR SAHAKARI DUGDHA SANGH MARYADIT, GWALIOR

GOLA KA MANDIR, GWALIOR

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Please do mention tender reference and opening date on envelop.

E-TENDER DOCUMENTS

Tender for : Electronic Milk & adulteration Tester for Row Milk (EMAT-RM) Based On FTIR/MIR Technology

SCHEDULE – I : General Terms and Conditions

SCHEDULE – II : Items and their specifications

Tender reference : GSDS/PUR/DCS/2025-26

Published Date : 14-07-2025 Time 11.30 A.M

Bid Submission End Date : 28-07-2025 Time: 03.00 P.M

Bid Opening Date : 29-07-2025 Time 04.00 P.M

Place of opening Tender : Office of the Gwalior Sahakari Dugdha Sangh
Maryadit, Gwalior GOLA KA MANDIR,
GWALIOR

Cost of Tender Document: Rs. 1000/-

EMD Rs. 10000.00

Chief Executive Officer
Gwalior Sahakari Dugdh Sangh Maryadit
Gwalior

GWALIOR SAHAKARI DUGDHA SANGH MARYADIT, GWALIOR
GOLA KA MANDIR
GWALIOR

1. इलेक्ट्रॉनिक मिल्क एनालाईजर ई-निविदा प्रपत्र www.mptenders.gov.in से प्राप्त किये जा सकेंगे।
2. निविदा प्रपत्र राशि रुपये 1000/- का ऑनलाईन भुगतान करना होगा, जो कि वापसी योग्य नहीं होगा। निविदा प्रपत्र राशि हेतु डी.डी मान्य नहीं किया जावेगा।
3. निविदा प्रपत्र में अंकित ई.एम.डी राशि का भुगतान ऑनलाईन भुगतान करना होगा, जिसकी प्रति ऑनलाईन अपलोड करना होगी।
4. ई.एम.डी राशि का ऑनलाईन भुगतान करते समय Confirm to Pay करने उपरान्त बदलाव नहीं होगा। जिसकी संघ की कोई जिम्मेवारी नहीं होगी।
5. निविदा स्वीकृत होने उपरान्त निविदाकार को निर्धारित सिक्यूरिटी राशि रुपये 10000/- डी.डी के माध्यम से जमा करना होगी।

GWALIOR SAHAKARI DUGDHA SANGH MARYADIT, GWALIOR
GOLA KA MANDIR, GWALIOR
SCHEDULE – I

The Gwalior Sahakari Dugdh Sangh Maryadit, Gwalior invites Online tenders from bonafide manufactures/association of such manufactures and their authorised dealers for the supply of the material of different types and sizes strictly in adherence to the detailed specification given in the schedule – II of the tender.

The Gwalior Sahakari Dugdh Sangh Maryadit, Gwalior reserves the right to accept any or all tenders which in their opinion justify such actions without further explanation to the tenderers.

1.0 Tender Submission :

- 1.1 The tender should be submitted Envelope A, B & C along with required documents online on www.mptenders.gov.in and Hard copy of Envelope A, B & C along with required document sent by registered post, so as to reach the office of Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior on are scheduled time & date.
- 1.2 If the tender do not propose to send the tenders by registered post and if they wish to hand-over personally, the sealed tenders addressed to the office of Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior, they are permitted to do so.
- 1.2 The tender shall be opened online in presence of tenderers / or their authorized representative who wish to witness tender opening ceremony.
- 1.3 The tender received by the Fax / E-mail / Telegram will not be considered.
- 1.4 The tenders should clearly states in their offers the address, Fax / E-mail / Telephone and Telex No. any change in the address should immediately be notified to the Chief Executive Officer, Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior and correspondence thereafter will be made at the changed address.
- 1.5 Offer for each tender under reference should be sent under separate cover. Failure to adhere to this instruction will render the offer liable for rejection.
- 1.6 Individual signing the tender and other related documents must specify where he has signed as :
 - a) The sole proprietor of the firm or constitution attorney of such proprietor.
 - b) A partner of the firm, if it is partnership firm in which case he must have authorities to refer to the arbitration disputes concerning the business of the partnership either by virtue of partnership deed or by power of attorney.

1.7 Document Required:

- a) Receipt of Payment with Envelope – A . Submit online as well as physically before opening of bid.
- b) Technical Document is mandatory Upload in Envelope – B:
 1. Copy of Factory License/MSME Certificate/Shop Act Registration
 2. Copy of GST
 3. Copy of PAN
 4. Envelope ‘C’ – Price Bid – To be submitted only online.

- 2.1 No exemption for E.M.D. to any registered unit in S.S.I./MSME shall be considered. Any tender which is not accompanied by Earnest Money Deposit shall be rejected. E.M.D. of unsuccessful tenders will be returned within 60 days from the date of opening of the tender. The E.M.D. of successful tenders will be released after completion of supply / work order.
- 2.0 No interest will be paid on Earnest Money / Security Deposit for which the period during the earnest money / security deposit with Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior
- 2.1 After Approval of tender tenderer must deposit security deposit as per annexure – A for each item separately.

3.0 Prices :

- 3.1 The offered by the tenderers should be firm clear and free from all escalations. The prices offered should be valid for one year from the approval of the rates. We would communicate our rate approval within 45 days from the opening of tenders. Supply is to be made as per scheduled mentioned in our purchase orders. The orders should be placed in parts as per requirement of Dugdh Sangh.
- 3.0 The tenders should quote rates are F.O.R. Delivery at Dairy Plant, Banmore, Morena
- 3.1 The tender should quote rates are inclusive all taxes and FOR Dairy Plant.
- 3.2 Octroi duty if applicable at the destination shall be borne by supplier / tenderer.
- 3.3 The prices charged for the stores supplied under the contract by the supplier firm in no event exceed the lowest price in which the supplier firm, sales the stores of identical tender description to any other persons during the period and until the performance of all supply order placed during the contract period are completed. Manufacturing units situated in Madhya Pradesh has to provide the M.P. Sales Tax benefit certificate, while considering their offers as the goods mentioned in this would be resold by the Sangh.

2.0 Mode of Despatches :

- 4.1 The material to be supplied by the tenderer shall be despatched to Dairy Plant Banmore by Road under intimation to Gwalior Dugdh Sangh. The supplies shall carry out proper packing / crating to avoid damage during transit period depending upon the type of material.
- 4.0 After receiving confirmed purchase order, the material must be despatched as mentioned in purchase order.

3.0 Insurance :

- 3.1 All Transit Insurance shall be arranged by the supplier / tenderer.

6.0 Payment :

- 6.1 Our normal terms of payments is full payment after receipt, inspection and acceptance of materials by the competent authorities within a period of 30 days after receipt of the bills.
- 6.1 Payment shall be made by account payee cheques / demand draft. The Bank Demand Draft Commission charges shall be borne by suppliers itself.

7.0 General Terms & Conditions :

- 7.1 The acceptance of the tender and award of the purchase order shall be sole right of the Chief Executive Officer, Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior who does not bound himself to accept a Tender in whole or in part or reject any or all tenders received, without assigning any reasons and no explanation can be demanded of the cause of rejection of the tender by any of the tenderers.

- 7.1 Any tender not properly addressed and identified may be opened by the Chief Executive Officer and in such cases no responsibility can attract to the Chief Executive Officer for such premature opening of the tender and the Chief Executive Officer in his discretion may allow or reject tender to be considered along with other tender. The tenders received against the advertisement upto the specified time limit shall only be considered. But awarding the tender the lowest rates could not be criteria but also considering the other criteria such as quality, our specification and make also.
- 7.2 Negligence on the part of the tenderers in filling the tender confirm no right to withdraw the tender after it has been opened. If the tenderer fails to make supply within the stipulated period mentioned in purchase order without any valid reason, the order would be treated as cancelled and the firm may be blacklisted and EMD/SD/BILLS would be forfeited.
- 7.3 The tenderer should send their offers alongwith the specifications, necessary drawing ISI certificate, etc. which will form the basis, of their quotations and integral part thereof.
- 7.4 Correction if any in the tender should be noted over and signed at the place of each correction made.
- 7.5 The other Bank Commission, Postage shall be borne by the suppliers.
- 7.6 The Chief Executive Officer, Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior reserves the right to lace order for sole requirement with any tenderer or split the order among one or more tenderers.
- 7.7 Each tender should be accompanied with Income Tax / Clearance Certificate / Commercial Tax / Registration No. / Commercial Tax Clearance Certificate / Excise Licence No. without that the tender may not be entertained.
- 7.8 The submission of a tender by tenderer implies that he has read the notice and terms and conditions of tender and has made himself aware of the scope and specifications of the supplies to be made and the destination where the supply has to be made and satisfied himself regarding the quality and specification of the articles.
- 7.9 The tenderer should submit the tender in prescribed forms and no conditional tenders shall be considered.
- 7.10 No person or firm is permitted to submit more than one tender under different names.
- 7.11 Each page of the tender and its enclosures must be signed.
- 7.12 The tenderer shall not contract or assign to any other party or parties the whole or any portions of the tender awards.
- 7.13 The quality indicated in Schedule – II is tentative and shall increase / decrease upto any extend.

8.0 **Liquidated Damages :**

Once firm delivery dates are established then it shall be strictly adhered to. In case they are not followed, Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior reserves the right either to cancel the order and make alternative purchase at the risk and expense of the defaulting supplier or deduction will be made as mentioned below :-

Delivery:

	Duration of Delay	Liquidated Damages
	Upto 15 Days	1%
	Between 16 to 30 Days	2%
	Beyond 30 Days	5%

Services:

	Duration of Delay	Liquidated Damages
	Upto 15 Days	1%
	Between 16 to 30 Days	2%
	Beyond 30 Days	5%

9.0 **Inspections :**

- 9.1 All the goods are subjected to inspection at our works before acceptance. If goods are rejected due to defective or wrong supplies, our inspection report in this regard shall be treated as FINAL and no correspondence on the subject would be entertained. The rejected goods should be lifted from our premises by supplier within 15 days after communication of our office. In case party is not in position to lift out the goods within a stipulated period, then Dugdh Sangh is liable to auction to same goods.

10.0 Samples :

- 10.1** Samples of the articles should be produced before the competent authority within 7 days or as mutually agreed.
- 10.2** Demonstration of articles shall be arranged by the tenderer at the desired place on the cost of the tenderer wherever requested by Gwalior Sahakari Dugdh Sangh Maryadit, Gwalior.

11.0 Warfage & Demurrage : Warfage / demurrage etc. On the account of incorrect or delayed despatch of material or by documents shall be responsibility of suppliers / recovered from their bills / security.

- 11.1** Delivery of the material is to be made as per the purchase order.
- 11.2** The validity of tender rates shall be valid for one year from the date of approval. Period may be extended for one more year on mutual consent.

12.0 Termination of Contract :

- 12.1** If any act of commissions or commission of a unit brings the Gwalior Sahakari Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior to dispute, the Gwalior Sahakari Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior shall be competent to debar / black list the unit from further business with the Gwalior Sahakari Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior and EMD also may be forfeited.

13.0 Drawing & Specification :

- 13.1 The rate should be quoted for the specification given in the Schedule-II. Where no specification / incomplete specifications are given in it, detailed specifications of the articles and its components should be mentioned by the tenderer giving reference to ISI & registration with the D.G.S. & D and National Dairy Development Board if any along with printed literature etc. if available.
- 13.2 If the tenderer has any doubt, clarification shall be obtained before submission of tender.

14.0 Consequences of Breach of Conditions :

- 14.1 If the authorised person of the unit or a partner in the tendering firm commits breach of any of the conditions of the agreement it shall be lawful for the Chief Executive Officer, Gwalior Sahakari Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior to cancel the purchase order / Contract which is on the risk of tenderer.
- 14.2 If the tenderer fails to make supply within the stipulated time mentioned in purchase order then they may be blacklisted and EMD/SD also may be forfeited.

15 Dispute Arbitration Final Authority :

- 16.1 It should be clearly understood that in the event of tenderer failing to accept and execute the supply order within the stipulated time decision of the Chief Executive Officer, Gwalior Sahakari Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior in this respect shall be final and binding on tenderer.

16.2 For the matters of dispute relating to the interpretation of the above clause the decision of the Chairman/Competent Authority Gwalior Sahakari Dugdh Sangh Maryadit, GOLA KA MANDIR, Gwalior shall be final and binding on all concerned under orbitation and council Act, 1996.

Chief Executive Officer
Gwalior Sahakari Dugdha Sangh Maryadit Gwalior

Note : Tender reference must be indicates on top of the envelope

GWALIOR SAHAKARI DUGDHA SANGH MARYADIT, GWALIOR
GOLA KA MANDIR, GWALIOR (M.P.) SCHEDULE – II

Technical Specifications

Electronic Milk & Adulteration Tester for Raw Milk (EMAT-RM)

based on FTIR/MIR technology

1. Product to be analyzed: Raw milk
2. EMAT-RM should be based on the FTIR / MIR. The technology shall comply with international standard-ISO 9622/IDF 141/AOAC official method 972.16 (Certificate to this effect shall be provided by the OEM). Additional technologies may be employed as supplementary technologies.
3. Equipment should be able to give a measurement of Fat, SNF and Protein.
4. The equipment should be supplied with all required calibrations.
5. The equipment shall not allow upgradation/modification of its calibration without consultation with the person authorized by the Gwalior Sahakari Dugdh Sangh Maryadit and shall always generate non- tamper able records of all changes in the calibration.
6. Equipment should be able to detect & identify at least 5 specified adulterants and in addition more adulterants from the below mentioned list, as specified by the Gwalior Sahakari Dugdh Sangh Maryadit, with the given LODs:

Sr. No.	Name	LOD	Remarks
A	Adulterants that shall be detected and identified individually		<p>1. Claimed LODs shall be verified & certified by National Reference Laboratory (NRL) of Milk and Dairy Products or other institution recommended by FSSAI.</p> <p>A copy of the document/ certificate of the verification shall be submitted with the bid documents.</p> <p>2. The manufacturer shall also demonstrate compliance to claimed LODs at the installation site.</p>
1	Ammonium sulphate	0.1 % or lower	
2	Maltodextrin	0.7 % or lower	
3	Sucrose	0.7% or lower	
4	Urea	0.1 %	
5	Water	20% or lower	
B	The Equipment shall also detect below mentioned adulterants. The bid shall be inclusive of rates for below calibrations.		
1	Boric Acid	0.06% or lower	
2	Detergent	0.15% or lower	
3	Glucose	0.7% or lower	
4	Hydrogen Peroxide	0.3% or lower	
5	Maltose	0.9 % or lower	
6	Melamine	0.04% or lower	
7	Sodium carbonate/sodium bicarbonate	0.3 % or lower	
8	Sodium Citrate	0.17% or lower	
9	Sodium Hydroxide (Caustic Soda)	0.2 % or lower	
10	Sodium nitrate	0.05 % or lower	
11	Sorbitol	0.7 % or lower	
12	Starch	0.9% or lower	
13	Vegetable Oil/Fat *(Detected through presence of emulsifier)	1.5% or lower	

The above listed adulterants shall be displayed by name, as indicated above, by the equipment. For other adulterants, the equipment may have optional facility to display their presence as an abnormality in milk where milk has such unknown adulterant.

Additional adulterants, if analyzed and displayed by name by the equipment, shall be specified by the bidder along with the LOD.

7. Equipment should be able to analyze Fat & SNF. Parameters like Protein may also be analyzed optionally. The analysis range for these parameters is provided below:

- a) Fat : 0.5 - 12.0 %
- b) SNF : 6.0 - 12.0 %
- c) Protein : 2.0 - 6.0 %

Equipment with wider working range on both sides would be acceptable.

8. Accuracy, Repeatability and Resolution of equipment for milk parameters for compositional analysis should be as given below:

Parameters	Accuracy *	Repeatability*	Resolution	Remarks
Fat	± 0.10	± 0.10	0.01	1. Claimed Accuracy, Repeatability and Resolution shall be verified & certified by National Reference Laboratory (NRL) of Milk and Dairy Products or other institution recommended by FSSAI. A copy of the document/ certificate of the verification shall be submitted with the bid documents. 2. The manufacturer shall also demonstrate the above at the installation site.
SNF	± 0.15	± 0.15	0.01	
Protein	± 0.20	± 0.10	0.01	
* In terms of SD * For estimation of accuracy, the reference method for Fat shall be Rose Gottlieb method, for SNF shall be Gravimetric method and for Protein shall be Kjeldahl method.				

9. **Analysis speed:** Max. 45 seconds per sample (min 60 samples per hour considering sample handling & cleaning cycles)
10. **Sample Temperature:** 5 - 40 °C or wider
11. **Sample Volume (volume of milk drawn-in by EMAT for analysis):** Max. 7 ml (Over 7 ml is acceptable if the analysis is non-destructive and the sample is recoverable after analysis)
12. **Display:** LCD, graphical display / Colour TFT display.
13. Zero facility required

14. Cleaning CIP required
15. **Calibration facility:** using reference sample.
16. **Operating environment:** Should operate successfully at environment conditions (humidity & temperature) prevailing in the operational area / geographical area of Gwalior Sahakari Dugdh Sangh Maryadit.
17. **Portability:** Suitable for on-field testing
18. **Built-in Diagnostics:** Equipment shall be able to perform all the required diagnostics to ensure accurate and error free operations.
19. System shall have the capability to transfer data by any suitable means from equipment through RS-232 or USB Port or SD Card or Wi-Fi or Ethernet or facility of PC based software.
20. **Consumable and Accessories:** Equipment should be supplied along with appropriate reagents, consumables, spares and accessories for routine operations for approximate analysis of a predefined number of samples, as specified by the client, 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.
21. User manual to be provided (soft copy and hard copy both)
22. **Training & Support:** Basic training on operation/maintenance to be arranged by the bidder after installation of the equipment along with calibration development.

Support for trouble free operation of the equipment should be provided. The equipment shall be attended within 24 hours of intimation (during warranty or AMC) or release of the Purchase Order (PO) from client. The equipment should be put in operation within 2 days of intimation (during warranty or AMC) or release of the Purchase Order (PO) from client. In case the issue cannot be resolved in the given time, an interim replacement shall be provided immediately.
23. **Warranty:** Equipment shall be supplied with a warranty of minimum Three year from the date of installation. Bidder should undertake on site minimum two preventive maintenance visits during the warranty period apart from the breakdown visits. Warranty would apply to all the accessories supplied by bidder.

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, or workmanship, warranty would be extended.
24. **Demonstration and Evaluation:** Purchaser reserves the right to verify the performance of equipment at any stage of purchase process. When exercising this right, the purchaser shall invite all the bidders for demonstration. The bidder is requested to arrange all the pre-requisite timely for successful demonstration and evaluation as per tender / bidder specification.
25. **Compliance:** The reference / traceability of compliance information in the offer shall be clearly specified with supporting documentary evidences. The offer with

incomplete/untraceable information may not be considered. Any type of unwarranted canvassing for selection of instrument may lead to rejection of the offer.

26. **No offering of refurbished/assembled/demo modules:** No part of the offered equipment shall be refurbished or used in demonstration purpose. Kindly submit undertaking.
27. The AMC charges for three years after the expiry of warranty period shall be quoted separately.
28. It is the responsibility of vendor to supply a complete solution / unit for the analysis.
29. Vendor should be able to supply all the spares / consumable/ software required for repair & trouble-free operation for at least 10 years after installation.
30. The vendor should have a few installations in major dairies/laboratories of the country and demonstrated satisfactory performance of the equipment to the concerned stakeholders.
