

**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 | : | Supply, Installation , Testing , Commissioning, Glassware and Laboratory Equipment at GSDS |
| SCHEDULE – I | : | General Terms and Conditions |
| SCHEDULE – II | : | Items specifications |
| UPLOAD ONLINE (MANDATORY) IN ENVELOPE-A | | ANNEXURE –I |
| (UPLOAD MANDATORY IN TECHNICAL DOCUMENT) ENVELOPE- B | | ANNEXURE –II |
| Tender reference | : | GSDS/PUR/Laboratory Items/2025-26 |
| Published Date | : | 26-12-2025 Time 11.00 A.M |
| Bid Submission End Date | : | 15-01-2026 Time: 03.00 P.M |
| Bid Opening Date | : | 16-01-2026 Time 03.30 P.M |
| Contract & PBG Format | : | ANNEXURE –III & IV |
| Place of opening Tender | : | Office of the Gwalior Sahakari Dugdha Sangh Maryadit, Gwalior Golam Ka Mandir Gwalior MP |
| Cost of Tender Document: EMD | | Rs. 1000/- Rs. 50000.00 |

**Chief Executive Officer
Gwalior Sahakari Dugdha Sangh Maryadit Gwalior**

**GWALIOR SAHAKARI DUGDHA SANGH MARYADIT, GWALIOR
GOLA KA MANDIR
GWALIOR**

1. डी.सी.एस इक्यूपमेंट ई-निविदा प्रपत्र www.mptenders.gov.in से प्राप्त किये जा सकेंगे।
2. निविदा प्रपत्र राशि रूपये 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। एवं मध्य प्रदेश के सूक्ष्म एवं लधु उधोगों को निविदा में प्रतिभूति / ई०एम०डी० राशि के भुगतान से छूट रहेगी। परन्तु एम०एस०एम०ई पंजीयन की प्रति ऑनलाईन अपलोड करनी होगी।
4. ई.एम.डी राशि का ऑनलाईन भुगतान करते समय Confirm to Pay करने उपरान्त बदलाव नहीं होगा। जिसकी संधि की कोई जिम्मेवारी नहीं होगी।
5. निविदा स्वीकृत होने उपरान्त निविदाकार को निर्धारित सिक्यूरिटी राशि रूपये 50000/- डी.डी अथवा नगद जमा करना होगी।
- 6- सफल निविदाकार को प्रदाय सामग्री के एवज् मे प्रस्तुत दर कर सहित का 10 प्रतिशत राशी क्रय आदेश दिनांक से एक वर्ष तक Performance Bank Guarantee रखनी होगी।
- 7- सफल निविदाकार को संधि के साथ एक वर्ष हेतु निर्धारित प्रारूप में अनुबंध निर्स्पादित करना होगा।

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 authorized 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.
- 1.2 The tender shall be opened online in presence of tenderers / or their authorized representative who wish to witness tender opening ceremony.
- 1.2 The tender received by the Fax / E-mail / Telegram will not be considered.
- 1.3 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.
- 1.4 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.
- 1.5 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.

1.6 Document Required:

- a) Receipt of Payment with Envelope – A . Submit online (mandatory Upload)
- 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 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 mentioned into tender documents..**

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 Octori 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.

4.0 **Mode of Despatches :**

4.1 The material to be supplied by the tenderer shall be dispatched 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 dispatched as mentioned in purchase order.

5.0 **Insurance :**

5.1 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 / RTGS. The Bank 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 / GST/Registration 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 up to 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:

| On of Delay | Liquidated Damages |
|------------------|--------------------|
| 5 Days | |
| en 16 to 30 Days | |
| ad 30 Days | |

Services:

| On of Delay | Liquidated Damages |
|------------------|--------------------|
| 5 Days | |
| en 16 to 30 Days | |
| ad 30 Days | |

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 life out the goods within a stipulated period, than 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 GDS and National Dairy Development Board if any alongwith printed literature etc. if available.
- 13.2 If the tenderer have any doubt, clarification shall be obtained before submission of tender.

14.0 Consequences of Branch 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 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 Dugdha Sangh Maryadit, GOLA KA MANDIR, Gwalior shall be final and binding on all concerned under arbitration and council Act, 1996.

**Chief Executive Officer
Gwalior Sahakari Dugdha Sangh Maryadit Gwalior**

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

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

Supply, Installation, Testing, Commissioning of following
Glassware Laboratory Equipments at GSDS

1. ANALYTICAL WEIGHING BALANCE

| Specification | Requirement |
|---|---|
| Quantity | 2(Two) |
| Suggested make | Mettler Toledo, Shimadzu, OHAUS, and (Phoenix) |
| Capacity | 200 g/ 210 g/ 220 g |
| Least count | 0.01mg |
| Accuracy | 0.01 gm |
| Readability | 0.01mg |
| Repeatability (Standard deviation) | ±0.1 mg |
| Linearity | ±0.2 mg or better |
| Response time | Less than 10 sec |
| Stabilization | Approx. 4.0 sec (0.1mg) / 15 sec (0.01mg) |
| Weighing pan | <ul style="list-style-type: none"> • Circular/square/rectangular • Single Pan Top • Grid type • Eccentric load deviation 0.2/0.25 mg |
| Minimum overall diameter of pan | 8-10 cm |
| Tare facility | Yes |
| Calibration (internal) | <ul style="list-style-type: none"> • Fully automatic, time/temperature controlled internal calibration • Should be capable to adjust itself • Must be provided with calibration certificate by an agency accredited by NABL or with traceable to International Standard. |
| Weight Box traceable to international standards | <ul style="list-style-type: none"> • 1 mg - 200 g, E2 (1 no) • Accuracy class acc. to OIML R111: E2 • Nominal mass value: 1 mg to 200 g. Up to 500 mg as wire weights • Material: special steel, non-magnetizable, density 8.0 g/cm³, highly corrosion-resistant, knob weights highly polished and laser marked, in wooden case. |
| Operational requirements | <ul style="list-style-type: none"> • Digital display: Backlit display with soft touch screen operation along with accessibility to date and time etc. • To have inner adjustable draft shield • Glass draft shield with flexible configuration for left/right hand operation • Weighing with automatic and manual start and provision for data interface the manufacturer to provide the specification data needed to facilitate calculation of uncertainty |
| Environmental factors | <ul style="list-style-type: none"> • Safety for electromagnetic compatibility |

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| | <ul style="list-style-type: none"> • Permanent shock absorption facility • Capacity of operating in temperature range between -5°C to 45°C and relative humidity of 80% |
| Operating manuals, service manuals, other manuals | Should provide |
| Warnings | Any warning signs would be adequately displayed |
| Back-up rechargeable battery | Back-up battery for use of equipment during power shut down. |
| Balance leveling | Balance should indicate immediately as & when it is required to be leveled and should have the facility for horizontal plane calibration (mercury bubble adjustment), if not otherwise available. |
| Supplier/ manufacturer | Must be ISO certified for quality |
| Service contract clauses, including prices | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached |
| Operating manuals, service manuals, other manuals | Should provide: - User, technical and maintenance manuals in English language List of procedures required for local calibration and routine maintenance Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Warranty | 2 years after satisfactory installation and working excluding consumable parts and accessories. |
| List of Spares and Accessories | List of all the spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached |
| Quality Requirement | Should be compliant with the requirements of FDA/CE/BIS Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety Should have necessary certification for safety and quality standards from national/ international bodies |
| IQ/PQ/OQ | On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument |
| Training | The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

2. PH METER

| Specifications | Requirement |
|---|--|
| Quantity | 1(One) |
| Suggested Make | Mettler Toledo, Thermo Fisher, Hash, Metroohm, OHAUS, HAANA, HORIBA |
| Working pH Range | 0 – 14 pH |
| pH resolution | ± 0.01 pH |
| Mv | <ul style="list-style-type: none"> Range 0 - ± 1999 Accuracy ± 1mV Resolution 1 mV |
| Temperature Compensation | 0 to 100 °C |
| Temperature | Range -10 to +105°C Resolution 0.1°C Accuracy ±0.5°C ATC range 0 to 100° |
| Calibration Points | Should have 3 stage calibration with auto buffer recognition |
| Alarm | Calibration reminder interval (1 to 999hrs) |
| Temperature Compensation | Automatic |
| Display | <ul style="list-style-type: none"> Backlit blue LCD with operation icon digital display with 0.001 pH unit readability |
| Accessories | <ul style="list-style-type: none"> Extra Electrode Standard buffer solution (pH 4.0, 7.0, 9.0 x 500ml for each bottle) Standard electrode holder AC /DC Adaptor. |
| Power | 9V DC |
| Data storage& Output | Data storage facility and record maximum and minimum value. |
| Documents Certificates Performance and safety standards | <ul style="list-style-type: none"> Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety Complete with IQ, OQ, PQ, Documents, Operations and Maintenance manuals |
| Supplier/ Manufacturer | Must be ISO certified for quality |
| Service contract clauses, including prices | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached. |
| Operating manuals, service manuals, other manuals | Should provide 2 sets (hardcopy and soft-copy) of: <ul style="list-style-type: none"> User, technical and maintenance manuals along with machine diagrams; List of equipment and procedures required for local calibration and routine maintenance; Service and operation manuals to be provided |

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|------------------------------------|---|
| | <ul style="list-style-type: none"> • Certificate of calibration and inspection |
| Operation and maintenance training | The supplier will have to carry out successful installation at our laboratory premises and provide on - site comprehensive training for scientific personnel operating the system and support services till customer satisfaction with the system. |
| Training | The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

3. PH Meter (Pen type)

| Specifications | Requirement |
|---|--|
| Quantity | 1(One) |
| Suggested Make | Mettler Toledo, Thermo Fisher, Hash, Metroohm, OHAUS, HAANA, HORIBA |
| Parameter | Ph |
| Range | 0 – 14 |
| Resolution | 0.1 |
| Power | 1.5V x 2 Lithium Batteries LR44 |
| Accuracy | 2% FS |
| Temperature | 0 - 80 Deg C |
| Dimension | 35 mm x 155 mm |
| Calibration Points | Should have 3 stage calibration with auto buffer recognition |
| Alarm | Calibration reminder interval (1 to 999hrs) |
| Temperature Compensation | Automatic |
| Display | <ul style="list-style-type: none"> • Backlit blue LCD with operation icon • digital display with 0.001 pH unit readability |
| Accessories | <ul style="list-style-type: none"> • Extra Electrode • Standard buffer solution (pH 4.0, 7.0, 9.0 x 500ml for each bottle) • Standard electrode holder • AC /DC Adaptor. |
| Power | 9V DC |
| Data storage& Output | Data storage facility and record maximum and minimum value. |
| Documents Certificates Performance and safety standards | <ul style="list-style-type: none"> • Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety • Complete with IQ, OQ, PQ, Documents, Operations and Maintenance manuals |
| Supplier/ Manufacturer | Must be ISO certified for quality |
| Service contract clauses, including prices | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and |

| | |
|---|---|
| | repairs in future after guarantee/warranty period should be attached. |
| Operating manuals, service manuals, other manuals | <p>Should provide 2 sets (hardcopy and soft-copy) of:</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals to be provided • Certificate of calibration and inspection |
| Operation and maintenance training | The supplier will have to carry out successful installation at our laboratory premises and provide on - site comprehensive training for scientific personnel operating the system and support services till customer satisfaction with the system. |
| Training | The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

4. Autoclave

| Specifications | Requirement |
|------------------------------------|--|
| Quantity | 3 (Three) |
| Suggested make | Narang Scientific, Tempo, Equitron |
| Chamber | <ul style="list-style-type: none"> • Steam collection bottles to remove most of the steam during operation • Ware inlet and outlet valve • Drain valve for cleaning or changing with fresh water • Constructed with appropriate stainless steel with superior corrosion resistance to water and steam • High temperature and pressure resistant silicon gasket • Built-in analog pressure gauge • Manual pressure release valve |
| Chamber size/Capacity | Approx. 270 lit |
| Gauges | <ul style="list-style-type: none"> • Should have a water level gauge • Analog gauges for measuring inner and outer steam pressure. • Should have an inner temperature indicator. |
| Display | <ul style="list-style-type: none"> • Fully Automatic PID Control ± 0.1 °C • LED display for temperature and remaining time |
| Operating Temperature and accuracy | <ul style="list-style-type: none"> • Maximum 123°C |

| | |
|---|--|
| | <ul style="list-style-type: none"> • Temperature Accuracy: ± 0.5 °C at 150 °C • Must have Temperature calibration function |
| Operating pressure and gauge | <ul style="list-style-type: none"> • 15 -20 psi • ANALOG PRESSURE GAUGE (0 -400 psi pressure gauge) indicating actual pressure |
| Timer | Automatic START/STOP timer |
| Safety warnings and alarms | <ul style="list-style-type: none"> • A cycle cannot start if the door is open or not properly locked • The door cannot unlock until chamber pressure reaches room pressure • Over-Temperature Cut-Off with audio visual alarm • Low Temperature Warning: If the temp. stays below 121°C for more than 5 seconds • Low Heat Warning: If the temp. does not reach the sterilization temperature during the set periods • Over-Pressure Cut-Off with audio visual alarm • Over Current Cut-off with audio visual alarm. • Low Water Level heater cut-off and ALARMS |
| Calibration certificates | Certificate from ISO17025 accredited lab for temperature, pressure gauges & timer. |
| Operation and maintenance training component | The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on - site comprehensive training for a minimum of two scientific personnel operating the system and support services till customer satisfaction |
| Certificates Performance and safety standards | <p>Should be compliant with the requirements of FDA/CE/BIS</p> <ul style="list-style-type: none"> • Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety |
| Supplier/ Manufacturer | Must be ISO certified for quality |
| Service Support Contact details | Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/adhoc) to be declared by the manufacturer |
| Comprehensive maintenance | Comprehensive Maintenance of the equipment supplied, installed, commissioned for 60 months after 2 year Warranty/Defects Liability Period. This will include start- up/commissioning routine servicing, regular maintenance, preventive maintenance of equipment and |

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|---|---|
| | <p>components and break down repairs as and when occurring, ensuring that system does not remain out of service for a period more than 24 hours in case of major breakdowns and 6-8 hour in the case of minor breakdowns due to any unforeseen break down. The institution will provide Water / Electricity power, etc. for maintenance work. The successful tenderer shall keep the essential spares at site during the Contract Period to avoid the delay in attending faults / maintenance</p> |
| Accessories | <ul style="list-style-type: none"> • Perforated corrosion free baskets made up of SS 304 (3-4 Nos.) that are stackable two high or even more levels, • Silicone gasket |
| Recommendations or warnings | <ul style="list-style-type: none"> • Any warning signs would be adequately displayed |
| Service contract clauses, including prices | <p>List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached</p> |
| Operating manuals, service manuals, other manuals | <p>Should provide 2 sets (hardcopy and soft-copy) of</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals to be provided; • Advanced maintenance tasks documentation; • Certificate of calibration and inspection |
| Training | <p>The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction</p> |

5. INCUBATORS

| Specifications | Requirement |
|--|---|
| Quantity | 3(Three) |
| Suggested make | Thermolab Scientific Equipments Pvt Ltd, HMG (INDIA), Coslab India, Newtronic Equipment Company, tempo instruments & equipments pvt ltd |
| Material of construction | <ul style="list-style-type: none"> • Double walled construction with complete inner chamber made of Corrosion resistant stainless steel (AISI 430) • Outer chamber should be of steel sheet finished with powder coated point Insulation to maintain desired temperature • Inner glass door • Inner chamber should be fabricated with ribs for adjusting shelves to convenient height and shelves to be supplied • Shelves should be made of polished stainless-steel sheet as per chamber |
| Capacity | Approximately 200 L |
| Temperature range | <ul style="list-style-type: none"> • Temperature should be thermostatically controlled • Temperature should be thermostatically controlled with range 1) Ambient to $70^{\circ} \pm 1^{\circ}$ C and 2) 5° C to 50° C $\pm 1^{\circ}$ C 3) 37° C $\pm 1^{\circ}$ C • Over-Temperature cut-off with audio/visual alarm • Low Temperature Warning alarm |
| Unit | <ul style="list-style-type: none"> • Air ventilators to be provided on both side • The equipment should be provided with microprocessor controlled digital display • Temperature homogeneity between top and bottom shelves should be maintained by forced circulation |
| Calibration | Certificate from a ISO 17025 accredited lab for 3 different temperature points |
| Recommendations or warnings | Any warning signs would be adequately displayed |
| Supplier/ Manufacturer | Must be ISO certified for quality |
| Service Support Contact details | Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/Adhoc) to be declared by the manufacturer |
| Warranty | Warranty for 2 years after satisfactory installation and working excluding consumable parts and accessories |
| Service contract clauses, including prices | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and |

| | |
|---|---|
| | repairs in future after guarantee/warranty period should be attached |
| Operating manuals, service manuals, other manuals | <p>Should provide 2 sets (hardcopy and soft-copy) of</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals to be provided; • Advanced maintenance tasks documentation; • Certificate of calibration and inspection |
| Training | The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

6. WATER BATH

| Specification | Requirement |
|--------------------------|---|
| Quantity | 6(Six) |
| Approved Make | Kumar Sales, Tempo, Narang Scientific, Remi, etc. |
| Power supply | 200-240V, 50 Hz |
| Material of construction | <ul style="list-style-type: none"> • Rounded, seamless stainless-steel bath to preventing rust, chemical damage and contamination. • Powder coating like epoxy coating exterior for easy cleanup • Corrosive resistant stainless-steel Gabled drip free lid |
| Unit | <ul style="list-style-type: none"> • Microprocessor controlled digital display. • Instrument should have lift up drip free bath cover; • Carrier racks should be given for flasks and test tubes racks. • Convenient water bath drains. • Water bath surface coating should prevent contamination and formation of algae. • Easy cleaning |
| Temperature | <ul style="list-style-type: none"> • Temperature Range: +20°C to 99°C • Temperature Accuracy: $\pm 0.2^\circ\text{C}$ at 37 .0°C • Temperature Uniformity: $\pm 0.5^\circ\text{C}$ at 37 .0°C • Digital LED display for operating status of TEMP • Over-Temperature Cut-Off |

| | |
|---|---|
| | <ul style="list-style-type: none"> • Temperature calibration function |
| Alarms | <ul style="list-style-type: none"> • Audible warning safety signals should be there for high/low temperature warnings • Low liquid level |
| Recommendations or Warnings | Any warnings would be adequately displayed |
| Power supply | 200-240V, 50 Hz |
| Lid | Made of SS 304 |
| Display | Digital display |
| Size | Dimensions of inner chamber: 400mm (L)*240 mm (W)*260 mm (H). Negative tolerance of 20 mm and Positive tolerance of 40 mm on all the dimensions would be acceptable. |
| Other | <ul style="list-style-type: none"> • The equipment should be supplied with 2 No. Of SS test tube rack for holding 24 Test Tubes of size 12 X 75 mm - 1 No. & 15 X 75 mm - 1 No. • At the time of installation, the performance of the equipment should be demonstrated as per the provided specifications or OEM catalogue, whichever is better. |
| Operating manuals, service manuals, other manuals | <p>Should provide 2 sets (hardcopy and soft-copy) of</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals to be provided; • Advanced maintenance tasks documentation; • Certificate of calibration and inspection |
| Training | The supplier must carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

7. AIR FUMIGATOR

| Specifications | Requirement |
|--------------------------|--|
| Quantity | 2(Two) |
| Suggested make | Neptune Fairdeal Products Pvt. Ltd, Taurus International, Speedway Machines, Skan Inc., etc. |
| Capacity | 5 L with easy cleaning facility |
| Material of construction | Body should be compact, durable, leak proof and made of stainless steel /heavy duty plastic |

| | |
|---|---|
| Particle size | <ul style="list-style-type: none"> It should produce aerosols with particle size of less than 5 microns The blower head should be rust proof inert to Formaldehyde, KMnO4, H2O2 and deliver aerosols uniformly. |
| Unit | <ul style="list-style-type: none"> It should be compatible with all disinfectant solutions usual concentration. It should be compatible with maximum pH range (both acid and alkali). The equipment should be of good quality and conform to national/international standards. |
| Power supply | <ul style="list-style-type: none"> The machine should operate on 220 +- 10 volts, 50 Hz, single phase, A.C Provided with Cable should be at least 15 meters in length, ISI marked. |
| Operation | <ul style="list-style-type: none"> The discharge rate should not be less than 1 L/25 minutes. The tank capacity, discharge rate and timer on the machine should be so that the disinfectant should be able to disinfect 4000-5000 cubic feet in one cycle of 2 hours (max). |
| Warranty | Warranty for 3 years after satisfactory working excluding consumable parts and accessories |
| Service contract clauses, including prices | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached |
| Operating manuals, service manuals, other manuals | <p>Should provide 2 sets (hardcopy and soft-copy) of:-</p> <ul style="list-style-type: none"> User, technical and maintenance manuals to be supplied in English language along with machine diagrams; Service and operation manuals (original and copy) to be provided; Advanced maintenance tasks documentation |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

8. HOT AIR OVEN

| Specification | Requirements |
|---|--|
| Quantity | 2(Two) |
| Suggested make | RNS Engineering, Advance Techo, Imperial Biotech |
| Size | Inner Volume 250 L |
| External Body | Mild Steel with powder coated/ Stainless Steel 304 Grade |
| Internal Chamber | Stainless Steel 304 Grade |
| Insulation | Mineral Wool/ Ceramic Wool |
| Door | <ul style="list-style-type: none"> Inner: Stainless Steel 304 Grade Outer: Powder coated Mild Steel/ Stainless Steel 304 Grade Self-closing magnetic lock having door sealing material suitable to high temp |
| Adjustable Shelf | 2- 3 Perforated Stainless-Steel shelves (Removable) 304 Grade |
| Shelf Rest Pitch | 30 mm |
| Temperature Range | 40 °C to 300 °C |
| Least Count | 0.1°C |
| Temperature Accuracy | ± 0.5°C or better |
| Temperature Uniformity | ±2°C or better |
| Heating Element | Nichrome wire / Kanthal A1/SS tube/pipe heater |
| Time to attain Maximum Temperature | Approximately 90 minutes |
| Control Panel | Door mounted Digital LCD display for set temperature, attained temperature, set time, heating ON/OFF |
| Preset Timer | <ul style="list-style-type: none"> With buzzer Digital display of time Least count- 1 minute |
| Circulation Method | Blower |
| Power Source | 220-240 V, Single phase |
| Exhaust Port | 30 mm ID on opposite side walls |
| Safety Device | <ul style="list-style-type: none"> Self-diagnosis function including overshoot/undershoot of temperature and over current protection Audio Visual alarm for door opening after 2 minutes |
| Optional Requirements | <ul style="list-style-type: none"> Dot Matrix Printer interface Temperature chart recorder PLC Controller Extra shelves Heating Thermostat Manufacturer calibration certificate for three different temperature points from ISO 17025/NABL accredited laboratory |
| Recommendations or Warnings | Any warning signs would be adequately displayed |
| UPS | Suitable on - line UPS (10 KVA) to support the instrument. |
| Operating manuals, service manuals, other manuals | <p>Should provide</p> <ul style="list-style-type: none"> User, technical and maintenance manuals in English language |

| | |
|----------------------------------|--|
| | <ul style="list-style-type: none"> • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

9. MICROPIPETTES

| Specifications | Requirement | | |
|-------------------------------------|---|---|---|
| Quantity | 5(Five) | | |
| Suggested make | Rainin (Mettler Toledo), Eppendorf, Sartorius, Microlit, BEXCO, and Borosil. | | |
| General | Liquid handling equipment, Autoclavable with high precision, robust and reliable | | |
| Material of construction | Corrosion resistant piston and sealing material to allow smooth and uniform pipetting | | |
| Pipette Tip Cone | Pipette tip cone should be universal type suitable for any make of microtips. Pipette tip cone should be removable for easy cleaning, maintenance and autoclaving. | | |
| Operation | Effortless single hand operation of volume setting, volume lock, pipetting and tip ejection, all operations with the same hand | | |
| Display | Should have 4-position display with an integrated lens for better display. Display always visible and facing the user. | | |
| Sterilization | Completely autoclavable at 121 °C, 20 min without disassembly | | |
| Volume Range and Quantity specified | Range | Maximum permissible Systemic error (at 100% volume) | Maximum permissible Random error (at 100% volume) |
| | 100-1000 µL | ± 0.6 % | ± 0.2% |
| Identification | Each pipette must have a individual identification number engraved and also have an individual labelling area. | | |
| Accessories | 1. Suitable Tips for all pipettes, Tip boxes 2. Rotatable holder with Large rubber feet protection from liquids spilled on bench top to hold and for storing up to 6 pipettes in upright position: 4 Nos | | |
| Calibration Certificate | 3-point calibration certificate with Uncertainty measurement from ISO 17025 (NABL) accredited lab | | |

10. Bulk density tester

| Specifications | Requirement |
|--|--|
| Quantity | 1(One) |
| Suggested make | Anton Paar, Labindia Instruments, DBK Instruments, Optics Technology, Asian Scientific Instruments |
| Infrared / Rapid Heat Oven | |
| Measuring cylinder volume | 100 (100 ml) |
| Balance | Analytical balance with sensitivity ~ 0.1 mg (or better) |
| Tapping/Compaction apparatus (Stampf-volumeter / Tap-density tester) | mechanical, reproducible tapping |
| Drop / Tap height | 14 ± 2 mm or 3 ± 0.2 mm |
| Tapping frequency / speed | adjustable; typical range ~ 250–300 taps/min |
| Number of taps (or strokes) allowed | 0 to 9999 |
| Display / Controls / Data Handling | Digital counter / microcontroller-based control; often allows stroke count, drop height, speed, etc. |
| Cylinders supported | 100 ml |
| Calculation of output parameters | Bulk density (g/mL), tapped density (g/mL), plus derived parameters like compressibility index and flowability indicators |
| Power supply / Operation mode | 220–230 V, 50 Hz |
| Reproducibility / Precision / Accuracy | repeatability error to be $\leq 1\%$. |
| Operating manuals, service manuals, other manuals | <p>Should provide</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on – site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

11. DIGITAL THERMOMETER

| Specifications | Requirement |
|------------------------------------|--|
| Quantity | 5(Five) |
| Suggested Make | Omron, Dr Trust, Hicks, and Beurer |
| Build quality, chemical resistance | PTFE tubing, glass electrodes, inert valves, robust body |
| Measurement range | -18°C to 150 °C |
| Accuracy / Precision | ± 0.1 °C |
| Resolution / Display units | Digital display |
| Sensor type | electronic sensor (thermistor or similar) |
| Response time | Much faster |
| Beep/Alert | beep/alarm |
| Auto shut-off | |
| Memory (last reading) | Store the last measured temperature and display it when switched on next time |
| Display options | Celsius |
| Safety | mercury-free and often with a break-resistant outer design |
| Calibration Certificate | 3-point calibration certificate with Uncertainty measurement from ISO 17025 (NABL) accredited lab |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on – site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

12. Sodium analyzer

| Specifications | Requirement |
|-----------------|--|
| Quantity | 2(Two) |
| Suggested make | Mettler Toledo, Thermo Fisher Scientific, National Analytical Corporation, Plasmid Biotech |
| Measuring Range | Na+: 0 to 199.9 ppm K+: 0 to 199.9 ppm Ca 2+: 0-99.9 ppm Li 2+: 0 to 9.99 ppm |
| Sensitivity | Na+= 0.1 ppm K+ = 0.1 ppm |
| Specificity | less than 0.5% interference when concentrations are equal to test sample concentrations |
| Gas Control | Adjustable with knobs |
| Ignition System | Auto Ignition System |
| Flame Failure | Auto detection |
| Gas Cut off | Automatic |
| Reproducibility | Less than 1% coefficient of variation for 20 consecutive samples using 10 ppm Na set as maximum standard |
| Linearity | Less than 1% |
| Display | LED, 12.5 mm (1/2") |

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|---|---|
| Fuel supply | High-grade propane/butane mixture regulated at approximately 30 psi |
| Air supply | 6 L/min at 12 psi; oil and moisture free |
| Recorder | output 0.05 to 5 V (switchable) |
| Operating manuals, service manuals, other manuals | Should provide <ul style="list-style-type: none"> User, technical and maintenance manuals in English language List of equipment and procedures required for local calibration and routine maintenance Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Recommendations or Warnings | Any warning signs would be adequately displayed |
| Calibration Standard | Must supply traceable standard solutions for Na ⁺ , K ⁺ and Ca 2 ⁺ |
| Warranty | Warranted for 2 year, extendable up to 3 years, after satisfactory installation and working excluding consumable parts and accessories. |
| Stabiliser | Suitable Stabilizer as required for functioning of the equipment |
| Quality Requirement | Should be compliant with the requirements of FDA/CE/BIS <ul style="list-style-type: none"> Quality Certification: ISO certified. Should provide calibration certificates from NABL accredited agency every year during warranty & CMC period. Calibration cost will have to be borne by the supplier. Equipment should be FDA / CE certified or equivalent standard of repute. It should be ISO 9001:2000 or other equivalent All calibration certificates must be from ISO 17025: 2017 certified laboratory |
| List of Spares and Accessories | List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on – site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

13. PETRIDISHES

| Specifications | Requirement |
|----------------|---|
| Quantity | 50(Fifty) |
| Suggested make | Borosil, Thermo Scientific |
| Dimensions | 100 mm (diameter) x approx. 50 mm (height/depth) |
| Material | Borosilicate Glass (reusable) or High-quality Polystyrene/Polypropylene (disposable/autoclavable plastic) |
| Transparency | Optically clear for easy observation |

| | | |
|-------------------------|---|-------------|
| Lid Design | Loosely fitting lid to allow necessary gas exchange while minimizing contamination | |
| Base | Flat and stable for uniform media distribution and microscope observation | |
| Wall Thickness | 4 millimeter | |
| Category of Petri Dish | Petri Dishes (Glass) Conforming to Indian Standard IS 2626 | |
| Autoclavability | The Petriplates should be Autoclavable | |
| Limit of Alkalinity | When graded according to the method prescribed in IS : 2303-1963, the pertidishes shall conform to Type 1 of the glass. | |
| Calibration Certificate | 3-point calibration certificate with Uncertainty measurement from ISO 17025 (NABL) accredited lab | |
| Parameters | Top dish | Bottom Dish |
| Internal Diameter | 130±1 mm | 100±1 mm |
| External Height | 15±1 mm | 17±1 mm |
| Wall Thickness | 1.5 mm | 1.5 mm |

14. PIPETTE

| Specifications | Requirement |
|---|---|
| Quantity | 20(Twenty) |
| Suggested make | Thermo Fisher Scientific, BrandTech, Borosil |
| Accuracy & Precision | Delivered volume matches set volume (accuracy); consistency of repeated volumes (precision). Class A |
| Volume Range | 10 ml |
| Material | The pipettes shall be made from clear, neutral, heat-resistant glass tubing |
| Ergonomics | Lightweight, single-handed operation, low force, intuitive buttons, comfortable grip. |
| Calibration Certificate | 3-point calibration certificate with Uncertainty measurement from ISO 17025 (NABL) accredited lab |
| Autoclavability | Lower part or full pipette should be autoclavable for sterilization. |
| Distance from zero line to lowest graduation line | 180 to 220 mm |
| Distance from highest to lowest figured graduation lines for each(mm) other pipette | 160 to 220 mm |
| Distance from highest graduation line 1 to top of pipette | 100 mm |
| External diameter of suction tube | 6.8 to 8.3 mm |
| Length of tube of uniform bore below lowest graduation line | 10 mm |
| Overall length | 360 |
| Length of tapered portion forming jet | 25 mm |

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|--|-----|
| External diameter of jet at top of bevel | 3 |
| Wall thickness | 1mm |
| Graduation lines shall be clean permanent and uniform lines of thickness not exceeding 3 mm. | |

15. BURETTE

| Specifications | Requirement |
|---|---|
| Quantity | 8(Eight) |
| Suggested make | Borosil, Pyrex |
| Accuracy Class | Class A |
| Material | Borosilicate glass 3.3, glass of chemical resistance and thermal properties at least to HGB3 in accordance with ISO 719 |
| Capacity | 50 mL |
| Graduations | Fine, high-contrast permanent markings |
| Graduation Interval | 0.1 mL for a 50 mL burette. |
| Tolerance (Error Limit) | ±0.05 mL for a 50 mL Class A model. |
| Stopcock | PTFE (Teflon) key for smooth, leak-proof operation without the need for lubrication, |
| Subdivision | 0,10 ml |
| Scale length | 500 mm to 600 mm |
| Overall length | 820 mm (max) |
| Distance of zero line from top of burette | Min 50mm |
| Distance of lowest graduation line from top of stopcock | Min 50mm |
| Length of tube of uniform bore below lowest graduation line | Min 20 mm |
| Distance of end of jet from underside of stopcock | Min 50mm |
| Delivery time | 60 to 100 s |
| Calibration Certificate | 3-point calibration certificate with Uncertainty measurement from ISO 17025 (NABL) accredited lab |

16. Bursting strength tester

| Specifications | Requirement |
|-------------------------|---|
| Quantity | 1(One) |
| Suggested make | Presto Group, Testronix, Nova Engineers, Perfect Group India, and EIE Instruments |
| Capacity | 0-40 or 0-50 kg/cm ² (typical for paper/packaging). |
| Accuracy | ±1% or better (e.g., ±0.5%) of full scale. |
| Least Count | 0.1 kg/cm ² (for digital models). |
| Fluid Displacement Rate | 95 cc/minute (standard). |
| Test Fluid | approx. 98% |
| Clamping | Pneumatic or Manual with ball spring. |
| Upper Clamp Opening | 30.5 mm or 35.5 mm diameter. |

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|---|--|
| Lower Clamp Opening | 38.1 mm diameter |
| Display | Digital LCD with Peak Hold Function. |
| Power | 220V, Single Phase, 50 Hz. |
| Pressure Range | Up to 50 kg/cm ² or higher, depending on material. |
| Time to Burst | (20 ± 5) seconds for the pressure increase |
| Standards | Aligns with IS 1966 (Part 2), IS 15844, ISO 13938-2, ASTM D3786, TAPPI T810 |
| Test Area | Common sizes include 50 cm ² (79.8 mm diameter), 100 cm ² , 10 cm ² , 7.3 cm ² . |
| Operating manuals, service manuals, other manuals | <p>Should provide</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

17. Digital Micrometer

| Specifications | Requirement |
|---|--|
| Quantity | 1(One) |
| Suggested make | Mitutoyo, Starrett, Sylvac |
| Measurement Range | 0-25 mm |
| Resolution (Least Count) | 0.001 mm |
| Accuracy | ±0.002 mm |
| Repeatability | The ability to produce consistent results with repeated measurements |
| Measuring Force | 5-10 N. |
| Spindle and Anvil | The screw thread on the spindle shall have a pitch of 0.5 or 1 mm |
| Deviations and Tolerances | shall not exceed 3 pm |
| Operating manuals, service manuals, other manuals | <p>Should provide</p> <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on |

| | |
|--|---|
| | - site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |
|--|---|

18. Antibiotic, Aflatoxin, Pesticide residue testing Equipment & kit

| Specifications | Requirement |
|---|---|
| Quantity | 2(Two) |
| Suggested make | Thermo Fisher Scientific, PerkinElmer, Neogen Corporation, Bioeasy |
| storage | 2 to 8°C |
| Shelf life | 12 month |
| Limit of Detection | 0.1µg/L (Aflatoxin), 0.03 µg/ml(Antibiotic), 0.005 µg/ml (Pesticides) |
| Operating manuals, service manuals, other manuals | Should provide <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on - site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |
| Cost effective and affordable solution | |
| Minimal False Positive/Negative Result | |
| Fulfil the regulatory compliance of requirements set by FSSAI | |

19. REFRIGERATOR

| Specification | Requirements |
|--------------------|---|
| Quantity | 2(Two) |
| Suggested Make | Haier, LG, SAMSUNG, SONY |
| Material | Stainless steel |
| Capacity | Approx. 500 L and above |
| Adjustable Shelves | Tempered glass shelves 05 No. |
| Doors | Two Stainless steel doors side by side Refrigerator and freezer must be side by side |
| Temperature Range | Independent Digital display and temperature controls for refrigerator and freezer: Refrigerator +2 to +8°C Freezer -15 to -20°C |

| | |
|---|--|
| Audio alarm | Alarm if door is ajar for long |
| Inner body | Rust Free Material |
| Refrigerant | CFC / HCFC Free |
| Frost Free | In built Voltage Stabilizer |
| Door Lock & Interior light | High/Low cut with timer delay |
| Temperature Control | Same Temperature: Top to Bottom Microprocessor based Temperature Controller with Digital Display |
| Compliance statement | The quote should also include a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature. This statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification |
| Warranty | 2 years after successful installation and 10 years for the compressor |
| Operating manuals, service manuals, other manuals | Should provide 2 sets (hardcopy and soft-copy) of:- <ul style="list-style-type: none">• User, technical and maintenance manuals to be supplied in English language along with machine diagrams;• Service and operation manuals (original and copy) to be provided;• Advanced maintenance tasks documentation |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on - site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

20. Deep freezer

| Specification | Requirements |
|--------------------|--------------------------|
| Quantity | 1(One) |
| Suggested Make | Haier, LG, SAMSUNG, SONY |
| Type | Vertical |
| No of Door | Single |
| Position of Door | Front |
| Type of Insulation | PUF |
| Frost Free | Yes |
| Type of Cooling | Direct |

| | |
|---|---|
| Castor | Heavy Duty Lockable |
| Capacity | 250 L or higher |
| Shelves/ Drawers | Sealed 5-7 pullout drawers / shelves of different sizes that can be adjusted for storage flexibility |
| Material Of Chamber Interior | Stainless steel, preferably 304 grades |
| Material of Chamber Exterior | Stainless steel, preferably 304 grades |
| Door Material | Stainless steel, preferably 304 grades |
| Finish | Powder coated exterior finish |
| Temperature Range | - 10 °C to - 30 °C |
| Temperature Uniformity in Degree Celsius | ±3 °C or less |
| Temperature Stability of System in Degree Celsius | ±3 °C |
| Lockable Outer and Inner Lids | Yes |
| Control | Fully programmable microprocessor controlled with membrane keypad and eye level control panel |
| Display | Easy to read, LED control panel and alarm status with integrated diagnostics |
| Acoustic Safety alarms | Should be equipped with for High/low temperature, door ajar and malfunction alarms, sudden power failure, system failure and battery low |
| Temperature History | Data logger for temperature and temperature history which can be downloaded via a USB port |
| Battery Back Up | Yes |
| Refrigerants | CFC-Free, HCFC-Free non inflammable refrigerants |
| CO ₂ cylinder should be supplied with freezer for backup | Yes |
| Operating manuals, service manuals, other manuals | Should provide <ul style="list-style-type: none"> • User, technical and maintenance manuals in English language • List of equipment and procedures required for local calibration and routine maintenance • Service and operation manuals to be provided Advanced maintenance tasks documentation, if any. |
| Warranty of complete unit | 3 Year from the date of satisfactory functioning |
| Warranty of stabilizer in years | 3 Year |
| Warranty of compressor in years | 10 years or more |
| Voltage Stabiliser | Stabilizer as required for functioning of the equipment |
| Quality Requirement | Should be compliant with the requirements of FDA/CE/BIS |

| | |
|----------------------------------|---|
| | <ul style="list-style-type: none"> • Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety • Should have necessary certification for safety and quality standards from national/ international bodies |
| Operation and training component | The supplier will have to carry out successful demonstration at the laboratory premises (where ever the system has to be installed) and provide on - site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction |

Note :

1. *The sample shall have to be submitted whenever demanded.*
2. *Material shall be purchased as per requirement*

.

ANNEXURE -I**GWALIOR SAHAKARI DUGDHA SANGH MARYADIT
GOLA KA MANDIR, GWALIOR*****Envelop-A – EMD*****UPLOAD ONLINE (MANDATORY) IN ENVELOPE-A**

| | |
|---|--|
| Acknowledgement No. of Online Tender Fee And EMD | |
| DATE | |
| AMOUNT | |
| Bank Name | |
| Name of Tenderer | |

ANNEXURE -II**GWALIOR SAHAKARI DUGDHA SANGH MARYADIT****GOLA KA MANDIR, GWALIOR**
Envelop-B - Technical Bid**(UPLOAD MANDATORY IN TECHNICAL DOCUMENT) ENVELOPE- B**

| | | |
|----|--|--|
| 1 | Name of Unit | |
| 2 | Address of the Unit-Office | |
| | Factory | |
| 3 | Name of Proprietor / Partner 1 | |
| | 2 | |
| | 3 | |
| 4 | Name with designation of other person authorised to sign the documents on behalf of the unit if any. | |
| 5 | Telephone Nos. Office | |
| 6 | Mobile Nos. / Fax | |
| 7 | Email Address: | |
| 8 | Particulars of the Registration Certificate issued by the competent authority. | |
| 9 | Factory License/ Shop Act Registration/MSME Registration No. & date (Upload online in Technical Document) | |
| 10 | GST NO. (Upload online in Technical Document) | |
| 11 | PAN (Upload online in Technical Document) | |
| 12 | Whether the unit or its sister concerned unit or any unit of the proprietorship or partnership, if any has been penalised by any Central or State Government / Organisation of Other Dugdh Sanghs any time ? | |
| 13 | If the reply is "Yes" when & Why ? Give reasons in details : | |
| 14 | Enclosed Last Two Year Supply Order | |

ANNEXURE -III**CONTRACT FORM**

(On the Non-judicial Stamp paper as per the **Stamp Act of Local State Govt.**

THIS AGREEMENT is made at _____ on the _____ day of __, 2025 between *[name and address of GSDS]*, (hereinafter called "Principal") of the one part and _____ (hereinafter called "the Contractor") of the other part:

WHEREAS Gwalior Sahakari Dugdh Sangh Maryadit Gwalior, being desirous of getting the tendered work done and accordingly the Supplier/Contractor has accepted a bid _____ in response to the GSDS Bidding Document Reference _____ with regards to undertaking of the _____ (description of the WO/PO), for a sum of Rs. _____ (Rupees) (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS:

1. In this agreement words and expressions shall have the same meaning as in the Terms and Conditions and in Schedule I & Schedule II Annexure-I ,II in the above referred Bidding Document.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz :
 - a. the offer and price schedule submitted by the Contractor;
 - b. the schedule of requirement/list of items and the technical specifications in Section I, III and Annexure-I ,II in the above referred Bidding Document;
 - c. The terms and conditions in the above referred Bidding Document;
 - d. The Principal's PO/Work Order No. _____ dated _____ (File ref.: _____)
3. In consideration of the payments to be made by the Principal to the Contractor, the Contractor hereby covenants with the Principal to undertake the work (as per the tender) and to remedy defects therein in conformity in all respects with the provisions of the Work Order given by the Principal and Bidding Document.
4. The Union hereby covenants to pay the Contractor, in consideration of undertaking the work / Mechanical and Electrical work and the remedying of defects therein, the contract Price or such other sum as may become payable under the provisions of the Work Order at the times and in the manner prescribed in the Work Order and Bidding Document.
5. Arbitration: In the event of any dispute in the interpretation of the terms of this agreement/ purchase order or difference of opinion between the parties on any point in the purchase order arising out of or in connection with the agreement/ accepted purchase order or with regard to performance of any obligation hereunder by either party, the parties hereto shall use their best efforts to settle such disputes or difference of opinion amicably by mutual negotiations. In case no agreement is reached, either party may forthwith give to the other, a notice in writing of the existence of such question, dispute

or difference of opinion and the same shall be referred to the adjudication of sole arbitrator to be appointed by “GSDS” whose decision in the matter shall be final and binding on the parties. The arbitration proceedings shall be governed under the provisions of the Indian Arbitration & Conciliation Act, 1996 and the rules thereunder or any statutory modification thereof for the time being in force. In this agreement/purchase order, venue of such arbitration shall be Gwalior (M.P.).

6. Jurisdiction: Courts at Gwalior, MP, alone shall have jurisdiction regarding any matter arising out of this agreement.

IN WITNESS whereof the parties hereto have caused this agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by
the said

Chief Executive Officer
(GSDS)

In the presence of:
Witness

1) Signature

Name Address

2) Signature

Name
Address

Signed, Sealed and Delivered by the
said

Authorized Signatory
(For the Contractor)

In the presence of:
Witness

1) Signature

Name Address

2) Signature

Name Address

ANNEXURE -IV*(Form of Bank Guarantee for Performance Security)**(On the Non-judicial Stamp paper as per the Stamp Act of Local State Govt.)*Performance Guarantee No*[insert guarantee reference number]*Date*[insert date of issue of the guarantee]*To: *[insert the name of the Purchaser/GSDS]*

WHEREAS _____ *[name and address of Supplier]*
 (hereinafter called "the Applicant") has undertaken, in pursuance of Contract No. _____
 dated _____ to execute
 _____ *[name of Contract and brief description of Goods and related Services]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Applicant shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Applicant such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Applicant, up to a total of

_____ *[amount of guarantee 1]* _____
[in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ *[amount of guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Applicant before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Goods and related Services to be supplied thereunder or of any of the Contract documents which may be made between you and the Applicant shall in any way release us from

any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until (i.e.) 90 days following the Completion date of the Contract including any warranty obligations, and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____