

Total No. of pages in tender document: 21 (Twenty one) pages

TENDER FORM



State Level Diagnostic Laboratory
SRI VENKATESWARA VETERINARY UNIVERSITY
Tirupati- 517 502, Andhra Pradesh

SRI VENKATESWARA VETERINARY UNIVERSITY
State Level Diagnostic Laboratory
Tirupati - 517502, Andhra Pradesh

***e*-PROCUREMENT NOTICE**

Tender Notice No. 02 / SLDL/2021-22
Tender ID: 469101

Date:05.01.2022

e - Procurement tenders are invited from the manufacturers or their authorized dealers for the supply of Equipment to be installed at State Level Diagnostic Laboratory, Sri Venkateswara Veterinary University, Tirupati, located at Tirupati, Andhra Pradesh under RKVY Project & Externally funded projects (2021-22).

Details are as follows:-

1)	Tender document online opening date	10.01.2022 12:00 PM
2)	Tender document online closing date	25.01.2022 4:00 PM
3)	Bid- Submission Online closing date	25.01.2022 4:01 PM
4)	Submission of all the uploaded documents (Hard Copies) at the State Level Diagnostic Laboratory, Tirupati.	27.01.2022 12:30 PM
5)	Bid online opening date at the State Level Diagnostic Laboratory, Tirupati.	27.01.2022 02:30 PM

- Bidders shall have APTS Registration (for details log on to www.pts.gov.in)
- For details visit www.apeprocurement.gov.in

For any clarification, please contact:

Contact No.: 98866504722

Sd/-
Dr. D. Rani Prameela
Professor and Head
Principal Investigator
State Level Diagnostic Laboratory,
Sri Venkateswara Veterinary University
Tirupati - 517502

GENERAL TERMS AND CONDITIONS

1. Tenders will be accepted through on-line up to 25.01.2022 until 4 PM by the **Principal Investigator**, State Level Diagnostic Laboratory, SVVU, Tirupati for Purchase of Lab Equipment to be installed at State Level Diagnostic Laboratory, Sri Venkateswara Veterinary University, Tirupati of as mentioned in Annexure I.
2. All the interested bidders have to mandatorily log on to e-procurement web site through Secure mode only and submit their bids using digital certificates (signing certificate – single key pair) obtained from Andhra Pradesh Technology Services Ltd. [APTS – Sub CA] in-compliance to Chapter III of IT Act 2000. The details and procedure for obtaining digital certificates is given at <https://tenders.apecurement.gov.in>.
3. The tenders are invited for Purchase of Lab Equipments to be installed at State Level Diagnostic Laboratory, Sri Venkateswara Veterinary University, Tirupati as per the specifications enclosed in Annexure-I.

ELIGIBILITY TO PARTICIPATE IN TENDERS

1. Manufacturers or their authorized Dealers are eligible to quote in this Tender. Authorized Dealers should attach Letter of Authority from the Principal manufacturer to quote in this Tender.
2. The Dealers/ Makers/ Suppliers should be registered firms and should have authorization certificate from principals in case representation of the international firm.
3. The Tenderer shall supply good quality Accessories/ Equipments as per Standards
4. The Professor and Head, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right to reject the tender of blacklisted companies and those of companies whose past performance with the State Level Diagnostic Laboratory, SVVU, Tirupati was unsatisfactory due to delayed / erratic supplies, frequent product failures etc.,

SUBMISSION OF THE ON-LINE TENDER FORMS

1. Tenders have to be submitted in two parts in ONLINE in the prescribed proforma i.e., Technical Bid (Part I) and Financial Bid (Part II).
Financial Bids of those Tenderers who qualify in Technical Bid will only be considered for finalization of the tender.
2. The Tenderer may please note that all the columns in the Technical Bid are to be filled in meticulously with precision, with documentary evidence wherever necessary.

3. All the required documents / enclosures / literature / technical catalogs etc., have to be uploaded & attached along with Technical Bid (Part. I of the Tender) only. Technical catalogues for quoted Accessories of the equipments is essential. Tenders submitted without technical literature of the equipments will be summarily rejected. Eligibility for Financial Bid (Part II of the Tender) will depend on the outcome of documents uploaded / electronically attached to Technical Bid.

THE SCHEDULES FOR OPENING OF TENDERS THROUGH ONLINE ARE:

27.01.2022 at 02.30 PM	Opening of Technical Bids i.e. Part-I
	Financial bid shall be opened after finalization of technical bid

1. The dates scheduled for RECEIPT and OPENING of tenders are fixed and will not be changed under any circumstances. However, the **Principal Investigator**, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right of postponement of the date of opening of Tenders or date of opening of financial bids in the event of any unforeseen reasons.
2. If for any unforeseen reasons, the last date for submission of tenders and opening of Tenders happens to be a holiday, the notified dates automatically get postponed to next working day.
3. The **Principal Investigator**, State Level Diagnostic Laboratory, SVVU, Tirupati is “Not Responsible” for non-receipt of tenders or late uploading of tenders on online for any reason, what so ever.
4. Failure to fill and sign the declaration and check slip shall make tender invalid.

DOCUMENTS TO BE ELECTRONICALLY ATTACHED:

1. All the documents are arranged in the serial order, (*Serial Numbers and Page Numbers should be indicated on the right-side top of the corner*) then uploaded to the e-procurement web site i.e., <https://tenders.apecurement.gov.in>

Sl. No	Code No.	Name of the Document
1.	E-I	Declaration Form (Annexure II)
2.	E- II	Check List (Annexure III)
3.	E- III	Manufacturing License / Authorization letter from the Manufacturing firm
4.	E- IV	Earnest Money Deposit
5.	E- V	GST/VAT/Sales Tax Clearance Certificate, payment particulars for preceding two years along with supporting Documents. (2018-19 & 2019-20)
6.	E- VI	Annual Turnover Assessment order for the preceding two years (2019-20 & 2020-21) certified by Commercial Tax Officer / Chartered Account
7.	E – VII	Copies of balance Sheet, Profit and loss Account for last two years i.e. (2019-20 & 2020-21) duly certified by the Auditor
8.	E-VIII	Latest Non-Conviction Certificate (In Original) If applicable
9.	E- IX	Users list for the item/ equipment during past 4 years
10.	E-X	BIS / ISO/ CE issued by the Competent Authority
11.	E- XI	APSSIDC/NSIDC Certificate, if applicable
12.	E- XII	Government Ownership Certificate, If applicable
13.	E-XIII	List of service centers with contact details

2. The Tenderers are requested to submit the following for verification on or before 25.01.2022 until 4 PM physically or by post. The State Level Diagnostic Laboratory, SVVU, Tirupati is not responsible for any postal delay.
- a) Check slip of all the documents uploaded
 - b) Copies of all the documents, which were uploaded

Note: This is only for cross verification of the uploaded documents. Any required document failed to upload, the bid shall become invalid, even though documents are produced physically.

3. All the enclosed documents shall be in English or Hindi or Telugu, *If Any Document is Produced in any Language Other than English or Hindi or Telugu, True Translation copies of Such documents in English Shall be enclosed duly attested by a Gazetted Officer.* Failure to submit English translation of such documents shall make tender invalid. All Originals are to be presented at the time of scrutiny for verification.

TRANSACTION FEE

All the participating bidders shall pay a transaction fee (non-refundable) to M/s APTS, Hyderabad and through on line. (0.03% of estimate contract value + service tax as applicable). It is mandatory for all the participant bidders from 1st January 2006 to pay a Non-refundable Transaction fee electronically to the M.D., A.P.T.S, Hyderabad by the service provider through "Payment Gateway Service on e-Procurement platform".

PROCESSING FEE

All the participating bidders shall pay non refundable processing fee of Rs 5000.00 /- through Online / DD drawn infavour of Comptroller, SVVU, Tirupati.

EARNEST MONEY DEPOSIT (EMD)

1. Tenderers are required to deposit EMD @ 5% of the estimated value of each and every item they quote or Rs. 10,000.00 for each item they quote, whichever is higher, with the **Principal Investigator**, State Level Diagnostic Laboratory, SVVU, Tirupati by a crossed demand draft / pay order drawn in favor of the **Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati payable at Tirupati (Any Nationalized Bank)**. The E.M.D. of unsuccessful tenderers will be returned after signing the agreement with the successful tenderers.
 - a. All offers without Earnest Money will be rejected.
 - b. Request for adjustment of pending bills / deposits, if any, towards Earnest Money will not be entertained.
2. All the bidders shall invariably upload the scanned copies of DD/ pay order towards EMD along with the bid, in e-procurement platform and this will be the primary requirement to consider the bid responsive.
3. The DD/ pay order should be deposited to this office while producing hard copies for verification.

4. Cheques, Cash deposits, Term Deposits or Fixed Deposits will not be accepted towards Earnest Money Deposit.
5. However the exemption of Earnest Money Deposit will be given to Small Scale Industrial Units, Registered with the Government of Andhra Pradesh and the National Small Scale Industries Development Corporation, New Delhi or the firms with specific exemption orders issued by competent authority of Government of Andhra Pradesh or Government of India. The order should be uploaded in the e-procurement platform in place of DD in case of any such claim.
6. The items permitted by S.S.I. Registration Authority will only be considered for manufacturing aspect only. IF ANY FIRM QUOTES ITEMS OTHER THAN THOSE COVERED UNDER S.S.I. REGISTRATION, E.M.D. SHALL ACCOMPANY THE TENDER. Failure to enclose E.M.D. shall make such of those items not covered under S.S.I. Certificate invalid for consideration.
7. Earnest Money Deposit of other tenders deposited with this station during any period of time shall not be considered for this tender.

SECURITY DEPOSIT

1. The successful tenderers(s) shall within 7 days, from the Professor and Head, State Level Diagnostic Laboratory, SVVU, Tirupati's written notice of acceptance of the Tender has been posted to him or them, deposit with the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati a sum of rupees @ 5% of the cost of the Accessories/ Equipment inclusive of all taxes (or the authority may fix the amount according to the value of the tender) as a security for the fulfillment of the contract. **The earnest money deposit/security deposit shall carry no interest. Security deposit shall be paid by Demand Draft in favor of Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati. Alternatively, the secured deposit of successful bidder shall be adjusted against his EMD.**
2. The Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right to forfeit and confiscate Earnest Money Deposit, if the successful Tenderer(s) fail to pay the Security Deposit which is required under the Terms and conditions of this Tender.

FORFEITURE / REFUND OF THE EARNEST MONEY DEPOSIT / SECURITY DEPOSIT

1. In case the selected Tender(s) does not supply the stores at the quoted rates within the period of contract and commits any breach of any one or more of these terms and conditions, the Earnest Money deposited by Tenderer(s) will be forfeited by the Principal Investigator, **State Level Diagnostic Laboratory, SVVU, Tirupati**
2. Earnest Money of the unsuccessful Tenderer(s) shall be refunded on signing the agreement with the successful tenderers by the SVVU, Tirupati. No interest is payable by the Principal Investigator **State Level Diagnostic Laboratory, SVVU, Tirupati** on such deposits.
3. The Earnest Money and Security money deposited by successful Tenderer(s) shall be retained by the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati till three months after the expiry of the contract period, i.e., 12 months from the date of acceptance of the tender to the date on which the supply which may arise in consequence of repeat orders placed during the 12 months for which the rates quoted are to remain valid.
4. On due performance and satisfactory completion of the order in all respects during the contract period, the Earnest Money Deposit and the security deposit will be refunded to the Contractor(s) without any interest within a period of 3 months with effect from the date of receipt of a request to this effect from the supplier(s).

GST/VAT/SALES TAX CLEARANCE CERTIFICATE

Attested Photo Copy of GST / VAT / Sales Tax Clearance Certificate and Sales Tax Payment particulars obtained from the competent sales tax authority of the area concerned for the years (2019-20 & 2020-21) shall be attached. Certificates older than that shall not be considered. Those not liable for GST/VAT/ Sales Tax payment under relevant rules should produce a certificate to that effect from the competent authority.

MANUFACTURING LICENSE:

1. Attested Photocopy of the Latest Manufacturing License, which is in vogue shall be enclosed. If the firm has applied for renewal of license, necessary authenticated proof from the concerned Licensing Authority shall be furnished. Licenses issued for test and Analysis will not be considered. The product/item quoted by the tenderer shall be underlined with ‘Red Ink’. The License number and date should also be underlined with ‘Red Ink’. The abstract of the product

quoted should be enclosed. The Manufacturing License should clearly indicate a minimum of two years of manufacturing and marketing experience. Items without the proof of two years of Manufacturing and Market experience will summarily be rejected.

2. The tenders received without proper license, authenticated list of items covered by license and authorization letters from actual / original manufacturers are liable for rejection without any further notice.
3. Tenderers should enclose documents to show that manufacturing Unit has been recognized with the ISO Certificate etc.
4. Tenderers should enclose documentary evidence of having manufactured and marketed the product for two years.

BIS/ISO/CE etc CERTIFICATES (whichever is applicable):

1. Tenderer should produce BIS / ISO/ CE etc. certificate (wherever applicable) issued by the concerned Licensing Authority.
2. Tenderers should enclose BIS / ISO Certificate for products wherever applicable.
3. The certificates whichever is applicable and claimed should be furnished with supportive documents.

TERMS AND CONDITIONS FOR COMMERCIAL AGREEMENT:

1. The details of the required Accessories of the equipments are shown in e-procurement Web Application. Rates should not vary with the quantum of orders or destination.
2. The rates quoted shall be in Indian Rupees only and must be expressed both in figures and words as well. The rate of each category of equipment should be quoted. The rates quoted should be inclusive of all the applicable taxes and “FOR destination” *i.e.*, **State Level Diagnostic Laboratory, SVVU, Tirupati, Andhra Pradesh, India**. However, the applicable taxes and packaging costs if any etc. should be clearly indicated in the price bid.
3. Tenderers who are supplying the items offered in this tender to other states shall enclose the copies of latest invoices to support of their claim that the rates quoted to SVVU are comparable.
4. No Insurance charges will be paid by the Department / Indenter.

5. The rates quoted by the tenderer shall not exceed the controlled rates, if the Government controlled rates are in force on the date of submission of tenders. In the absence of controlled prices, the tenderer shall quote reasonable price applicable to bulk purchases.
6. All rates quoted by the bidder should be valid for a period of One year from the date of acceptance of the lowest Bid.
7. The rates offered in the tender shall not exceed the M.R.P. as well as the lowest price at which the firm sells the product of identical description to any other department or organization or person anywhere in the State / neighboring states of A.P. If such incidences of quoting higher rates to this department come to the notice at any time, during the course of Rate Contract for the rest of the Rate Contract period, the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right to initiate an appropriate disciplinary action against such firms including black listing them.
8. IF ARTIFICIALLY LOW RATES ARE QUOTED, PRINCIPAL INVESTIGATOR, STATE LEVEL DIAGNOSTIC LABORATORY, SVVU, TIRUPATI RESERVES THE RIGHT TO CROSS-VERIFY THEM AND IGNORE THEM FROM CONSIDERATION IN ORDER TO PREVENT UNETHICAL TRADE PRACTICES.
9. Ordinarily, the tendered items will be selected based on the lowest rates quoted by the firms in the Financial Bids. However, the tender committee reserves the right to select the product even with higher rates depending upon the reported performance / market reputation / efficacy of the item basing on the user reports / feedback given by the end users, ignoring the lowest rates.
10. If tenderer quotes the rates at his will, overlooking the conditions in the previous paragraphs, the tender is liable for cancellation even after approval of tender and firms will face suitable legal action for such action at any time during the Rate Contract period.
11. Rates quoted should be marked clearly with main price and taken separately. Total price after taking all the actuals will be taken as financial quote for comparison.
12. No representation towards upward revision of rates once accepted will be considered. DSIR and other certificates for custom exemption will be provided by SVVU, Tirupati.
13. The rate quoted and accepted will be binding on the tenderer for the stipulated period and on no account will any increase in the price be entertained till the completion of tender period.

14. No tenderer shall be allowed at any time on any ground whatsoever to claim revisions of or modifications in the rates quoted by him. Clerical error, typographical etc., committed by the Tenderers in the tender forms shall not be considered after opening of the tenders. Conditions such as "SUBJECT TO AVAILABILITY" "SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED" etc., will not be considered under any circumstances and the tenders of those who have given such conditions shall be treated incomplete and for that reason shall be summarily rejected.
15. No company / Firm which has been blacklisted either by the State Level Diagnostic Laboratory, SVVU, Tirupati A.P or SVVU or by any State Government or Central Government / Organizations shall participate in the Tender during the period of Blacklisting. If any such firm participates and came to know at a later stage, and if any firm is Black listed at a later date either by the Government of Andhra Pradesh or any other State / Central Government will not only be debarred / Black listed permanently but also their security deposit /EMD whichever is available with the Department will be forfeited and any business / transactions will be stopped with their firms forthwith.
16. The indented stocks shall be delivered at respective institutes or research stations as indicated in Annexure I at the cost of the supplier.
17. The rates should be quoted separately for each item.

AGREEMENT

1. Every successful tenderer on intimation by this office shall execute an agreement on Rs.100/- (Rupees One Hundred only) non-judicial stamp paper in the prescribed form, which will be supplied along with the list of items tentatively approved. Agreement should be typed only on one side of stamp paper with due attestation on each page.
2. In the event of failure to execute agreement in proper form along with the Security deposit by successful tenderer within (10) days, the EMD of such tenderer will be forfeited and such defaulters will forego the right to participate for future tenders for a minimum period of (3) years.

DEMONSTRATION OF THE EQUIPMENT:

1. The Tenderer may have to arrange for demonstration of the functioning of the equipment as per specifications with the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati in case of necessity.
2. If the equipment is declared to be not of standard quality or not meeting the specified requirements, it will be deemed to be rejected. If any equipment supplied by the tenderer is used after supply and is subsequently found to be not as per specifications, unsound, inferior in quality or description or are otherwise faulty or unfit for use, then the cost of such Accessory/ equipment will be recovered from the tenderer, if the payment had already been made, in addition to penalty.
The approved firms shall Re-Supply the Accessory/ Equipment.

OTHER CONTRACTUAL OBLIGATIONS

1. The contract shall not be capable of being varied except by written consent by both the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati (purchaser) and the supplier shall not in the absence of the specific written acceptance be bound by any provisions of the supplier's quotations, offers etc., which purport to impose conditions at variance with this contract.
2. The supplier shall not sublet or delegate this contract or part thereof without the written consent of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati. Such consent shall not however be withheld unreasonably. But the Tenderer(s) may without the consent of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati, purchase material as he/she/they does not normally manufacture.
3. The supplier shall keep confidential, all matters concerning this contract and comply with all reasonable security requirements. All drawing, blocks, specifications, manuscripts, samples etc., supplied by the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati and all copies thereof shall be returned to the Principal Investigator, SLDL, SVVU, Tirupati when their use is terminated. In no event the supplier(s) shall permit publicity concerning this contract without the prior consent of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati.
4. Any undertaking or commitment given by or made by any Officer does not have any validity unless it is signed again by the authority competent who concluded an agreement earlier.

INSPECTION AND PACKING:-

1. At all reasonable time during production and prior to dispatch of material the supplier(s) shall afford and secure for the representative of Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati every reasonable access and facility at his plant or premises for its inspection and making of usual tests on behalf of the institute. The supplier(s) shall advise the scheme at least 7 days prior to the time when any material is ready for final inspection. The Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati will then make the inspection and subject to the material being in all respects as specified and being of sound quality and workmanship the representative of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati shall sign or countersign a certificate of inspection.
2.
 - a) The supplier(s) shall supply to the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati on request a report from time to time as to the progress of supplies. Any delay or anticipated delay will be reported at once together with the full reasons there for.
 - b) The responsibility of procurement of transport facilities and dispatch of the stocks in good condition and as per specifications and in time/door delivery lies with the supplier(s) and they must keep up the delivery schedule at any rate.
 - c) The insurance should be done at the cost of supplier(s) as the rate quoted is all inclusive for door delivery at respective institutes or research stations as indicated in Annexure I
3. Should the progress in supplies be delayed due to any cause beyond the reasonable control of the supplier(s) and whether such delay or impediment occurs before or after the time for dispatch, reasonable extension of time might be granted by agreement between the parties.
4. The supplier(s) shall insert in each case 3 copies of packing list, fully item wise to show case number, contents and full description of the contents. The concerned in-charge of the stores of the respective institutes or research stations as indicated in Annexure I at the receiving point will retain one copy with him and return the other two copies, duly signed to the supplier(s) who will append one copy of this packing list with invoices when sent to the concerned for payment.

SUPPLIES AS PER SPECIFICATIONS

1. All supplies shall be to the description and to the specifications laid down and in strict accordance with the approved samples. Deviations, if any should be clearly brought out failing which it will be normally construed that the materials offered are not to our requirements. Any special features may also be clearly brought out.
2. The decision of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati however shall be final as to the quality of supplies received and binding upon the supplier(s) in case, the supplier(s) supplies any other article than what is ordered such article supplied, not being approved, shall be liable to be rejected.
3. If the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati requires any changes in specifications the supplier(s) shall use his best endeavor to comply with the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati's wishes subject to fair fixation of prices and delivery schedule where appropriate.
4. If at any time during the term of this contract, the plans of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati changes for any reasons the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati shall have the right to terminate or alter this contract by sending fifteen days notice to the supplier(s) by Registered letter. In respect of such of the material as it complete and ready for dispatch within thirty days of such notice, the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati agrees to accept delivery thereof at the contract price and terms.

CONSEQUENCE OF NON-SUPPLY AND DAMAGES

1. All risks of loss, damage or depreciation to goods shall be upon the supplier(s) until the material is delivered at the addresses specified and in accordance with the provisions of the contract. Till the material received at the respective destination indicated by the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati, the property continues to be at the risk of the supplier(s). The mere fact that the material is delivered to transporter is no defense to the supplier(s) and the supplier(s) will be squarely held responsible for any delayed receipt of the material by the respective research stations or institutes as indicated in the Annexure I or for loss of damage of any kind to the material in transit.

2. Assuming that the supplier(s) fails to deliver any or all the materials covered by the contract, the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right in addition to other legal remedies, to cancel the contract or any portion thereof and hold the supplier(s) liable for all damages sustained by virtue of the supplier(s) failing to perform the contract and consequent cancellation of the contract.
3. In the event of the supplier(s) failing to complete the supplies in time or according to the approved specifications, the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right to make such arrangements as it may think fit for the completion of the supplies on account of and the sole risk of the supplier(s).
4. In case the goods are not supplied according to specifications, they will be summarily rejected.
5. The time allowed for delivery of goods shall be deemed to be the essence of contract. In case the goods are not delivered to the respective addresses as indicated in the Annexure-I within the stipulated period, the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati reserves the right to recover the liquidated damages a sum equal to 2% of the contract price of the undelivered material per week subject to a maximum of 5% of the value of undelivered material. The Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati also reserves the right to cancel the purchase order in case supplies are delayed beyond the scheduled date of delivery and to make such arrangements as he may think fit for the completion of supplies on account and at the risk of the supplier(s). The additional expenses thus incurred together with the consequential losses and also the liquidated damages shall be recovered from the supplier(s) out of his/their security deposit/Earnest Money deposit and any other amount due to him/them. The balance still if any payable by the supplier(s) shall be paid by him/them within 7 days of notice by the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati
6. All invoices shall be prepared in four copies and shall be signed by the supplier(s) or his/their authorized agent(s). Every invoice shall bear a certificate to the effect that the material covered by the invoice(s) has been inspected by the supplier(s) before delivery and confirm in every way to the contract specifications and is packed in accordance with the contract requirements and further that the invoice is correct in every particular and no other invoice has been rendered previously in respect of the articles charged in the particular invoice. The

invoice in triplicate along with advance stamped receipt shall be raised in the name of heads of the respective research stations or institutes as indicated in Annexure I.

7. The payment of the bills shall be made by the heads of the respective research stations or institutes as indicated in Annexure I. duly deducting the statutory deductions, if any.

PENALTIES

1. If the successful tenderer fails to execute the agreement and / or deposit the required security deposit within the time specified or withdraws his tender after the intimation of the acceptance of his tender has been sent to him or owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit deposited by him along with his tender shall stand forfeited to the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati and he will also be liable for all damages sustained by the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati by reasons of breach, such as failure to supply, including the liability to pay any difference between the prices accepted by him and those ultimately paid for the procurement of the articles concerned. Such damages shall be assessed by the heads of the respective research stations or institutes as indicated in Annexure I, whose decision is final in the matter.
2. Non-performance of contract provisions will disqualify a firm to participate in the tender for the next three years.
3. In the event of tendered supplies failing quality test, contract with the tenderer will be suspended and purchases made from alternative suppliers. *Such firms may be black listed for three years* beginning from the year following the one in which defective supplies were detected. The tenderer shall also be liable for action under criminal law and the matter shall be notified to the concerned Licensing Authority.
4. In all the above conditions, the decision of the Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati shall be final and binding.
5. In the event of any dispute arising out of the tender such dispute would be subject to the Jurisdiction of the Civil courts with in the city of Tirupati.

SETTLEMENT OF DISPUTES

1. Any difference or dispute arising out of or in connection with this tender or acceptance thereof or the contract that may be entered in consequence thereof, shall be decided by arbitration. The Principal Investigator, State Level Diagnostic Laboratory, SVVU, Tirupati or his nominee shall be the sole arbitrator and the arbitrator's decision shall be final and binding on the parties. The Tenderer(s) will have no objection to such appointment on any ground whatsoever including that such nominee, in his official capacity dealt with this matter at any stage.
2. The parties hereby agree that in the event of any dispute no cause of action shall arise in their favour to approach any court unless they have resorted to and exhausted the remedy of arbitration as envisaged above.
3. The parties also do hereby agree that the contract envisaged by these terms and conditions shall be deemed to have been entered into at Tirupati alone will have jurisdiction to try and legal proceedings which may arise out of this contract. Neither party shall file any proceedings in any other court.

Sd/-
Dr. D. RANI PRAMEELA
Professor and Head
Principal Investigator
State Level Diagnostic Laboratory
Sri Venkateswara Veterinary University
Tirupati - 517502

ANNEXURE – I
(Annexure to Tender Form)
Technical BID

Item Code	Equipment	Specifications	Quantity Required
SLDL001	Thermal cycler Machine gradient with accessories	<p>Block format: 96-well, 0.2 mL, 6-zone VeriFlex Block</p> <ul style="list-style-type: none"> • Max. block ramp rate: 6.0°C/sec • Max. sample ramp rate: 4.4°C/sec • Temperature accuracy: ±0.25°C (35–99.9°C) • Temperature range: 0–100.0°C • Temperature uniformity: <0.5°C (30 sec after reaching 95°C) • PCR volume range: 10–100 µL • Instrument memory: USB port and 16 GB onboard memory; onboard capacity >1,000 protocols • Display interface: 8-inch color TFT LCD • Power: 100–240 V, 50–60 Hz, max. 700 W • Veri Flex Block range: 30°C range across block, 6 temperature zones (up to 10°C zone-to-zone) • Data connectivity: Cloud or mobile via Ethernet or Wi-Fi <p>Accessories to be supplied along with the instrument:</p> <ul style="list-style-type: none"> • Midi PCR Workstation (HxWxD: 45x60x30) cm (Designed for UV Irradiation of PCR Chemicals) with HEPA filter • Qubit 4.0 Fluorimeter • Warranty should be for three years from the date of installation of the equipment <p>Suitable online ups with one hour backup should be supplied along with the instrument.</p>	01
SLDL002	Microscope with Image Acquisition system with software analysis	Microscope with High quality optics with latest Infinity Colour Corrected System for high brightness, high contrast and color correction. Modular & Ergonomic Microscope stand. 7 Position Universal condenser, Objectives 4X, 10X, 20X, 40X & 100X	01

		<p>The quoted microscope should be onsite upgradable to stepwise motorisation like motorised universal condenser, motorised fluorescence turret and DIC (Differential Interference Contrast).</p> <p>Sextuple or better revolving nosepiece with a slot for DIC slider. Wide Field Trinocular observation tube with three way light path selection (100:0/80:20/0:100) for simultaneous observation and imaging having F.No. 22mm or better.10X eyepieces with F.No. 22 or higher. At least 14 watt LED illumination system with a life of 50,000 hours or more. The intensity/brightness should be equivalent to a 12 volt 100 watt halogen bulb. The bidders can alternatively quote for 12V100W halogen illumination system with at least 40 additional halogen bulbs which should be strictly supplied by the microscope manufacturer.The working life of the LED or Halogen bulbs should be specifically mentioned.</p> <p><u>HIGH RESOLUTION CAMERA ALONG WITH ANALYSIS SOFTWARE:</u></p> <p>Back side illuminated Balance of Resolution and Speed, 8MP Monochrome digital camera. Sensor type 1/1.8-inch Monochrome CMOS, Pixel size 2.4 μm × 2.4 μm, Dynamic range 10 bit, Manual exposure: 13 μs–15 s, Auto exposure: 13 μs–15 s, USB 3.1 Type-C. Fast Live image display in low light conditions (frame rate) 45 fps (full resolution), 59 fps (binning 2 × 2—high speed), 60 fps (full HD). High resolution at 30 frames per second (fps), high quality FI, Ph, DIC images, Can share images using cell Sens imaging software with the NetCam solution or using the optional standalone controller’s image sharing function.) (active noise reduction),Fast Live (fast live image in low light conditions), Focus peaking (visual assistant for manual focus),Hot pixel calibration, Sharpness filter. View Overlay multiple images, Document groups for side-by-side image comparison, Movie playback, Tile view (multiple images in a single data set shown side-by-, side) Snap/movie acquisition, Time-lapse at specified interval, Automated multiwavelength, Geometry/combine/filter processing, Region and line measurements , Interactive measurement •Object counting (manual) •Manual panoramic imaging , Manual Process. Instantly create EFI image Manual Process. OPTIONAL :Training of Neural Networks- Deep Learning Module available. , OPTIONAL -</p>	
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<p>SLDL 003</p>	<p>Ultra Pure Water Purification system</p>	<p>Remoting Remote live image viewing, NetCam module available. Computer: Intel Core i3/5 processor , suitable intel mother board, DVD Witter, 2GB RAM, 500 GB HDD, Graphics card 1 GB VRAM , LED Monitor, Key Board, Mouse, Windows 7/10 Professional, SP3 , fire wire port. Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • It should be a compact system capable of producing Ultra Pure Water from Potable feed water. • Pre-filtration System: Three stage pretreatment system with 10, 5 & 1 micron spun filters for removal of suspended particles and organic carbon to take care of F.I. in water. • Microprocessor - controlled Management Systems for continuous monitoring of water purity • Should produce Ultra-Pure water (Type- 1 & Type 3) from tap water for different applications • It should be single stage system with the filter at the tap with bacteria <0.001CFU/ml • Should have R.O; D.I; and UV in a single unit. RO should be an independent process and it should not be an integrated process with any cartridge. • It should have a 50L for storing the water <p>It should have recirculation facility to maintain consistent peak water purity</p> <ul style="list-style-type: none"> • Instrument should show water volume in reservoir graphically and in percentage. • It should have cartridge change indicator. • The production rate of the unit should be minimum 10L/Hr, should have upgradation facility to higher flow rate. • It should have dual wavelength UV (185/254 nm) • Three years warranty for RO cartridges 	<p>01</p>
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SLDL 004	ELISA Reader	<ul style="list-style-type: none"> • The water purification system will automatically stop water delivery should a consumable not be in place. • To avoid maintenance errors and to improve traceability, the internal primary consumable water purification cartridges will have a built-in Data Tag. • The resistivity meter shall be able to display the non-temperature-compensated resistivity. • Output Water Quality should be: <ol style="list-style-type: none"> 1. Rate of production : 10 Ltrs./Hr 2. Inorganics: 18.2 MΩ- cm 3. TOC: <5ppb 4. Bacteria: <0.001 CFU/ml with POU fitted 5. pH: Effectively Neutral 6. Particles : 0.2 Micron 7. Dnase : <5 pg/ml 8. Rnase : <1 pg/ml 9. Endotoxins : <0.001 EU/ml with POU fitted • Suitable Stabilizer • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • Light source: Quartz-halogen lamp 6 V/10 W • Wavelength range :340–850 nm • Filters : 8-position filter wheel, the instrument is delivered with the following standard filters installed: 405 nm, 450 nm and 620 nm. Additional filters can be ordered separately. • Half-bandwidth of filters: 3–9 nm • Read-out range : 0–6 Abs • Linearity (405 nm) : 0–3 Abs, ± 2%, 96-well plate 0–2.5 Abs, ± 2%, 384-well plate • Resolution : 0.001 Abs • Accuracy (405 nm) : ± 1% (0–3 Abs) or ± 0.003 Abs, which ever is greater • Precision (405 nm) : CV ≤ 0.2% (0.3–3 Abs) • Measurement speed : 6 s, 96-well plate, fast mode 12 s, 96-well plate, normal mode 11 s, 384-well plate, fast mode 33 s, 384-well plate, normal mode 	01
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		<ul style="list-style-type: none"> • Optional incubator: Temperature range from ambient + 4°C up to 50°C, Should have the facility to upgrade in future. • Shaking : Linear shaking with three modes: slow, medium and fast • Robotic compatibility : Yes • Display : High contrast color display (480 x 272 dots) • User interface : Internal software or PC control with Software • Internal memory (standalone) : At least up to 99 assay protocols and 100 test results, 96-well plate External printer type: HP PCL5, PCL5e or PCL5c • Communication : USB for computer connection USB memory stick position for data export USB for external printer • Mains input : 100–240 V (50/60 Hz) • Conformity to regulations : 2006/95/EC (Low Voltage Directive) 2004/108/EC (Electromagnetic Compatibility Directive, EMC) FCC Part 15, Subpart B/Class B (July 2004) 2002/95/EC RoHS Directive 2002/96/EC (Waste of Electrical and Electronic Equipment) 98/79/EC (In Vitro Medical Device) Suitable branded system and instrument software should be supplied along with the system. • Warranty should be for three years from the date of installation of the equipment 	
SLDL 005	UVSpectroPhotometer	<ul style="list-style-type: none"> • Optical Design : Dual Beam • Spectral Bandwidth : 2 nm • Light source (Typical Lifetime) : Xenon Flash Lamp (>5 years typical, 3 years guaranteed) • Detector : Dual Silicon Photodiodes • Wavelength Range : 190–1100 nm • Wavelength Accuracy : ± 0.5 nm. • Wavelength Repeatability : $< \pm 0.2$ nm. • Wavelength Scan Speed : Slow, medium and fast (up to 1600 nm/min) • Wavelength Data Resolution : 0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm • Photometric Range : -2A to +3.5A • Photometric Display : -3A to +5A 	01

<p>SLDL 006</p>	<p>-80°C Deep Freezer</p>	<ul style="list-style-type: none"> • Photometric Accuracy : $\pm 0.002A$ at 0.5A, $\pm 0.004A$ at 1.0A, $\pm 0.008A$ at 2.0A • Photometric Repeatability : $\pm 0.001A$ at 1A • Photometric Noise : $\leq 0.00020A$ at 0A at 260 and 500 nm, $\leq 0.00030A$ at 1A at 260 and 500 nm, $\leq 0.00040A$ at 2A at 260 and 500 nm • Drift : $< 0.0005A/Hr$ • Stray Light : $< 1.0\%T$ 198 nm (KCl) ,$< 0.05\%T$ at 220nm(Nal),$< 0.03\%T$ at 340 nm (NaNO₂) • Display : 7-inch color touchscreen, tiltable, high definition, 800 × 1280 pixels • Keypad : Touchscreen • Sample Compartment : Should have option to accommodates 8-position cell changer, 4-position cell changer (long path cells), Peltier thermostatted cell holder (20–60 °C), Sipper accessory, Fiber optic probe coupler • DNA, RNA quantification software should be supplied along with the instrument. • System should have preprogramed quantification software and methods. • Connectivity : <ul style="list-style-type: none"> ▪ Single USB-A supports flash memory devices for method and data storage ▪ Duplex USB-A supports connection to a Windows computer running optional remote control software, keyboard, mouse ▪ Export data to network or PC via Ethernet or Wi-Fi ▪ Print via USB, Ethernet or Wi-Fi <p>Power Requirements : External AC to DC converter. Voltage and Frequency (Hz) selected automatically, 100–240 volts, 50–60 Hz.</p> <ul style="list-style-type: none"> • Suitable Stabilizer • Warranty should be for three years from the date of installation of the equipment <p>•440 L, with LED interface, Green HC cooling liquids, PUF Insulation and air-cooling, handle left side, 5 shelves,</p>	<p>01</p>
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		<ul style="list-style-type: none"> •Upright Ultra-Low Temperature Freezer (ULT) with Internal Dimension of 126.5 x 61.6 x 57.5 cm (49.8” x 24.3” x 22.6” in) Approx. and external dimension of 195.0 x 95.5 x 89.8 cms (76.8” x 37.6” x 35.4” in) Approx.; Height x Width x Breadth respectively •Fully programmable microprocessor controlled with membrane keypad and eye level control panel. •Freezer should be of 410 – 450 Liters capacity and should have clear and legible Blue LED display with advanced Interface conveniently located at Eye level. •Freezers should have an Automated vent port for quick re-access to samples as part of the eye level display / advanced interface Compressor fan air filter conveniently located on the front panel for ease of access for cleaning and maintenance. •System should have Dedicated alarm and backup system for 24/7 sample safety •System should have Programmable operating temperature from –50 °C up to –86°C with 1°C increment at 32 °C Maximum ambient operating temperature. •System should be highly energy efficient, with energy consumption around 8.3 KWh/day (0.54 KWh/ft³) when freezer is at -80 °C and 5.7 KWh/day (0.37 KWh/ft³) when freezer is at -70°C •Insulation should be of advanced PolyUrethane Foam (PUF) to maintain highest heat insulation. •System Exterior should be made up of powder coated Steel to resist scratch and rust and the interior should be of Polished Stainless-Steel grade 304 2B for easy cleaning and to eliminate potential for oxidation. •At least 5 Inner doors should have tight sealing to prevent temperature loss and Outer door should have reinforced tight sealing. •Ambient (20 °C +/- 1°C) to -80 °C Pull down time should be 3 h 35 min (215 min) or lesser; with freezer being maintained empty •Warm up time (freezer 2/3 full, from -85 °C to 0 °C) of at least 36 hrs or longer; 8 hrs for Warm up from -85 °C to -50 °C, freezer 2/3 full or longer •System should have an Ergonomically designed door handle for smooth and easy operation; for enhanced safety of user. •Should have security keyed locks and also with option to lock the ergonomically designed door handle with a padlock; third party padlock not supplied with ULT. 	
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SLDL 007	Incubator with Forced convection	<ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment • Should supply an incubator with forced convection with Temperature range from 8 °C above ambient up to 100 °C • Should have high temperature accuracy, special heating of the air in the air cushion and the direct introduction of air • Controller with 2-line LCD display and enhanced timer functions • Ability to adjust the temperature (°C or °F), exhaust air flap position, running time, temperature-dependent delayed OFF, delayed ON, and fan speed • Electromechanical control of the exhaust air flap • Class 1 electromechanical temperature safety device (DIN 12880) • Integrated class 3.1 independent temperature safety device (DIN 12880) with visual alarm • USB port on controller for recording data • Inner door made of tempered safety glass • Powder-coated housing, color: RAL 7035 • Electrogalvanized rear panel • Interior and interior door surfaces made of stainless steel; V2A (mat no. 1.4301, US equivalent: AISI 304 and mat no. 1.4016, US equivalent: AISI 430) Stackable • All unit parts must allow gentle cleaning to prevent unwanted contamination • Housing dimensions, W x H x D (not incl. fittings): 710 x 735 x 605 mm • Capacity: 95-110L • Temperature variation: at 37 °C [\pmK] 0.3 • Temperature fluctuation: at 37 °C [\pmK] 0.1 • 2 chrome-plated racks Max. load per rack [kg] 30 <p>Max. total load [kg] 150</p> <ul style="list-style-type: none"> • Should supply suitable stabilizer • Warranty should be for three years from the date of installation of the equipment 	01
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SLDL 008	Freeze Drier	<ul style="list-style-type: none"> • Drying Performance 2kg or more in 24 hours. • Ice condenser Capacity minimum of 2.5kg • Ice Condenser temperature minimum –55 deg C at ambient room temperature of 25 deg C. • Compressor should be minimum 0.43 KW or ½ HP. • Condenser coils, condenser chamber should be made of SS 316L. • Should include necessary certificate for MOC of the Condenser chamber. • Condenser coils should be in direct touch with the sublimed vapours to server as a good trap. The condenser coils should be internal within the condenser chamber. • Noise Level less than 50dB • Should have Pirani gauge vacuum sensor to monitor the vacuum during process • Vacuum pump with a flow rate of minimum 40 Litres /min • To include minimum 3 shelves with minimum dia 200 mm. • Graphic LC- Display showing process data like ice condenser temperature, process time, section time and vacuum. • Should include defrost facility • Should include facility to find out the product temperature while in process by using the vapour pressure reading. • Should have minimum 6 connections with individual control rubber valves • Compliance of each specification should be clearly indicated in the technical document / Catalogue. • Power connection should be suitable for Indian plug. 230 V • Technical compliance sheet should include supporting documents for all the points mentioned above. <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment 	01
SLDL 009	Image Acquisition system with software analysis	<ul style="list-style-type: none"> • Optical System: UIS2 (universal infinity-corrected) optical system. • Illumination System: Built-in transmitted illumination system, Kohler LED illumination (Life: >60,000 Hrs) (fixed field diaphragm), LED 	01

		<p>power consumption 2.4 W (nominal value), precentered.</p> <ul style="list-style-type: none"> • Focusing: Stage height movement (coarse movement stroke: 15 mm), Stroke per rotation for coarse adjustment knob: 36.8 mm, Focusing stopper, Torque adjustment for coarse adjustment knob, Fine focus knob (minimum adjustment gradations: 2.5µm). • Revolving Nosepiece: Fixed quintuple nosepiece with inward tilt. • Stage: Wire movement mechanical fixed stage, (W Å~ D): 211 mm Å~ 154 mm, travelling range (X Å~ Y): 76 mm Å~ 52 mm, Single specimen holder (optional: double specimen holder, sheet holder), Specimen position scale, Stage XY movement stopper. <p>Observation Tube: Type (anti-fungal), trinocular</p> <ul style="list-style-type: none"> • Eyepiece (anti-fungal): 10X Field Number (FN): 20. • Tube Inclination: 30°. • Light path Selector: eyepiece/camera port = 50/50 fixed. • Interpupillary distance adjusting range: 48–75 mm. • Condenser: Universal condenser with 7 turret positions: BF (4–100X), 2X, DF, Ph1, Ph2, Ph3, FL, Condenser turret lock pin (BF only), Built-in aperture iris diaphragm, AS lock pin • Observation methods: Brightfield, phase contrast, dark field. • Objectives: <ul style="list-style-type: none"> • 4X Plan Achromat Objective NA 0.1 W.D. 18.5 mm. • 10X Plan achromat Phase objective 10X/0.25, WD 10.6. • 20X Plan achromat Phase objective 20X / 0.4 , WD 1.2. • 40X Plan achromat Phase objective 40X/0.65, WD 0.6 (spring). • 100X O Plan achromat Phase objective 100X/1.25, WD 0.15 (spring, oil). • Power supply: AC 100–240 V 50/60 Hz 0.4 A. • Future upgradation: Should be upgradable LED Fluorescence attachment in future, Should have an option for polarizer & analyser, Multi head attachment. <p><u>Digital WIFI Camera:</u></p> <ul style="list-style-type: none"> • Image Sensor: Color CMOS. • Sensor Size: 1/1.8 inch (7.140 mm Å~ 4.980 mm). 	
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SLDL 010	DNA / RNA Sequencer	<ul style="list-style-type: none"> • Resolution (Max.): 2592 x 1944 pixels (Snapshot only), 1920 x 1080 pixels (HDMI, WLAN, on PC). • Pixel Size: 2.4 x 2.4 µm. • A/D Converter (Bit Depth): 8 bits. • Exposure Times: 1 ms – 918 ms. • Live Frame Rates: Snapshot only (2592 x 1944 pixels), Up to 30 fps (on PC, 1920 x1080 pixels), Up to 60 fps (HDMI Output, 1920 x 1080 pixels), Up to 25 fps (WLAN Output, 1920 x 1080 pixels). • Data Transfer: HDMI, WLAN (using the WLAN adaptor), Ethernet (using the USB-to-Ethernet adaptor). • Supported Mobile Device OS: iOS 11 and later Android 5.1 and later. • WLAN adaptor should be provided. • Offered camera should have support for 6 connections. • Should be supplied with c-mount adapter and SD card. <p>Measurement Functions:</p> <ul style="list-style-type: none"> • Line: Length measurement, Parallel lines • Circle: Diameter, area, perimeter measurement. • Angle: Angle measurement. • Annotation Functions: Text, Arrow, Rectangle, Circle. • Rectangle: Area, perimeter measurement. • Polygon: Area, perimeter measurement. • Point: Coordinates, number. Scale bar. • 55” inches display with HDMI should be supplied for teaching purchase. <ul style="list-style-type: none"> • Should supply suitable servo voltage stabilizer along with the instrument. <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment • The system should be a fully automated Multi-capillary, fluorescence-based genetic analysis system from sample loading to polymer replacement and based on dye terminator chemistry. • The system must have 8 Capillaries operating in parallel. • The system must be able to detect and analyze 6 fluorescent dyes simultaneously. 	01
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		<ul style="list-style-type: none"> • The system must have Cooled CCD detection technology and a spectrograph for color separation. • The system should utilize a single line 505nm Solid-State long-life laser utilizing a standard power supply. • The system must have Radio-Frequency identification technology to tracks key consumables data. • The system must have Simultaneous dual-side illumination detection system to maximize signal uniformity and sensitivity • The system must have Active temperature cooling/heating that can maintain temperatures from 18°C to 70° C. • The instrument should be capable to perform both Sequencing and Fragment Analysis. • The vendor should have software’s that are optimized for the instrument to perform de novo sequencing and re-sequencing (mutational profiling) — as well as microsatellite analysis, MLPA, LOH, MLST and SNP validation or screening. • Latest state-of-the art software, compatible for gene sequencing, multiple alignments, mapping, fragment/mutational analysis, and other related applications should be present and compatible Computer should be provided along with the system. • The vendor should offer a full range of chemistry kits, software, and accessory products • The vendor should provide chemicals for at least 200 run. The supply should be staggered as per user requirement. • The vendor should provide one PC with software’s and laser jet colour printer (latest version). • 5-KVA online UPS with 30 minutes power back up should be provided. • Provide all necessary accessories required for installation and smooth running of instrument. 	
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SLDL 011	<p>Imaging System for Live and Dead cells</p>	<ul style="list-style-type: none"> • Regional technical support/applications training, on-site, in-lab customer training and technical phone support should be available. • Should have CE /ISO and other valid certification should be present for the instrument. • Should supply gradient thermal cycler and Gel documentation system along with the sequencer. • Suitable Stabilizer • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • The System must be Infinity-corrected optical system with Royal Microscopical Society (RMS) threaded objectives with a 45 mm parfocal distance supporting fluorescence, brightfield, color brightfield, and phase contrast imaging modes. • System must be a compact integrated unit including: microscope, digital cameras, computer, high power fluorescence lighting system for Neurobiology, Immuno-oncology, Live-cell imaging, 3D cell imaging (e.g., organoids, spheroids), High-resolution tile scanning, Immunohistochemistry (IHC) applications etc • Illumination through five-position chamber for 4 fluorescence illuminators plus brightfield imaging; light illuminators with integrated hard-coated filter set and LED light source with >50,000-hour life; broad selection of standard and specialty LED illuminators. • Imaging methods by Single color, multicolor, area scan with montage or tile stitch, time lapse, Z-stacking, movie capture. • Condenser - 60 mm LWD condenser; 4-position turret with a clear aperture and 3 phase annuli. • System must include motorized X/Y scanning stage; 120 mm x 80 mm travel range with submicron resolution; drop-in inserts to receive vessel holders and lockdown holders to fix sample in place during long scans. • The system must have automated focus mechanism with submicron resolution. • System must include automated 5 position objective turret and Plan Flourite 4x, 10x, 20x, 	01
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		<p>40x,100x objectives to be supplied along with instrument.</p> <ul style="list-style-type: none"> • The system must include 03 (GFP, RFP and Dapi) independent high output LED illuminators to be supplied along with instrument. The LED illuminators must have independent intensity control. • Fluorescence LED illuminators must be single, interchangeable cubes that can be easily removed, installed and automatically recognized by the instrument software and adjust the configuration accordingly. • The system must include 2 cameras, an integrated high-sensitivity 3.2 MP or better (2,048 x 1,536) monochrome CMOS sensor with 3.45 µm pixel resolution and high-sensitivity 3.2 MP or better (2,048 x 1,536) color CMOS sensor with 3.45 µm pixel resolution, with auto-switching capabilities. • The system must provide a 1-click RGB channel overlay and also able to sequentially acquire a phase contrast image and a fluorescence image with a single mouse click, then overlay them automatically. And capable of automated full plate scanning. • The system should be supplied with the onstage Incubator for precise control of temperature, humidity, and gases for normoxic or hypoxic conditions allows a wide range of biological studies under physiological conditions. • The system must include Wizard based software and include downloadable software updates from time to time at no additional cost. <p>The System should have networking capability</p> <ul style="list-style-type: none"> • connection through Windows/SMB network via an Ethernet cable connection. • System must provide the following output file formats: 16-bit RAW monochrome: TIFF, PNG, 8-bit TIFF, PNG, JPG, Movies and time-lapse images in AVI, WMV. • System should have following output ports: Instrument: USB 3.1 Type B, 4-pin power port Computer: 1 x USB 3.1 Gen 2 Type C; 5 x USB 3.1 Gen 1 Type A; 4 x USB 2.0 Type A; 1 serial; 2 x DisplayPort 1.2; 1 RJ45; 2 PS/2; 1 UAJ; 1 line-out. 	
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<p>SLDL 012</p>	<p>Auto Biochemical Analyzer</p>	<ul style="list-style-type: none"> • System should include user control of system through 23 in. or better high-resolution touchscreen color monitor (also fully controllable via mouse); 1,920 x 1,080 resolution. • The system should be supplied with computer configuration external Dell™ PC with an Intel™ Core™ i7-8700 processor, 32 GB DDR4 RAM, 512 GB PCIe solid-state drive, NVIDIA™ Quadro™ P1000 graphics card with NVIDIA Pascal GPU technology and 4 GB memory, and Windows™ 10 software, designed to operate with touchscreen monitor and microscope Should supply air conditioner 1.5 ton of reputed brand, for hassle free maintenance of equipment. <p>Should supply suitable online ups with one hour back up along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • Throughput of 150 test/hour • Operating Conditions: Ambient temperature • Ambient Humidity: 30-80% • Throughput: 150test/hour • Methodology: End-point, fixed-time, kinetics, differential, mono and bichromatic, linear/non-linear multipointcalibration • Positions per racks: 2 (Reagents or samples) • Number of samples per rack : 24 (Racks multipurpose) • Number of reagents per reagent rack : 10 (bottles of 20 or 50mL) • Sample types: Primary tubs and samples cups • Maximum capacity of samples/reagents : 48 samples and 30 reagents (20refrigerated) • Cooling system temperature : 10°C below room temperature • Dispensing needle : Stainless steel with level detection and collision sensor • Dispensation temperature : 37 ±0,5°C • Level detection : Capacitive • Water consumption : <0,5l/h 	<p>01</p>
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SLDL 013

Auto Haematology Analyzer

- Dosing pump: Ceramic piston of high durability
 - Reagent volume: 10 µL - 600µL
 - Sample volume: 2 µL - 80µL
 - Reaction volume range: 180 µL - 800µL
 - Reaction wells: Rotor with 120 disposable wells
 - Light path: 6mm
 - Light source: Halogen lamp 6V,10W
 - Measurement range: From -0.05 A to 3.0A
 - Digital resolution: < 0.0001A
 - Spectral range: 340 nm – 900nm
 - Filter configuration*: 340, 405, 505, 535, 560, 600, 635, 670 nm (should have option of adding additional filter)
 - System Type: Fully Automated, Bench Top Model
 - Power Supply: 220V, 50Hz
 - Suitable branded computer should be supplied along with the instrument.
 - Free Reagents should be supplied
- Should supply suitable online UPS with 2 hrs backup along with the instrument
- Warranty should be for three years from the date of installation of the equipment

- CBC+DIFF for Cat, Dog, Horse, Mouse, Rat, Rabbit, Cow and Monkey;
- Additional Eos% measurement for dog and cat.
- 13 pre-defined animal species + 3 programmable animals on request
- Fully automated, compact, flexible and low cost
- Throughput: 25 samples per hour
- Automatic sample probe cleaning
- Huge data storage of 10, 000 results with histograms
- Fully automatic
- Integrated self-cleaning system minimizes maintenance
- Cyanide free reagents avoid environmental risks
- Large color LCD display features intuitive communication

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<p>SLDL 014</p>	<p>Inverted Microscope with Imaging Accessories</p>	<ul style="list-style-type: none"> • Built-in thermal printer allows auto printing after every test • Independent counting system for each species to ensure high accuracy • Fully integrated calibration and quality control programs • Parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PDW, PCT Additional Parameters for Dog, Cat Mouse, Rat, Rabbit, Cow and Monkey Lymph#, Mon#, Gran#, Lymph%, Mon%, Gran%, Eos% (for dog and cat) Histograms for WBC, RBC and PLT • Principles: Electrical impedance method for counting and cyanide free method for Hemoglobin • Sample Volume Prediluted: 20 uL Whole Blood: 13u_L • Throughput: 25 samples per hour • Display: Color LCD display, Resolution: 640 x 480 • Carryover: WBC, RBC, HGB $\leq 0.5\%$, PLT $\leq 1.0\%$ • Input/Output: RS232 x 2, 1 parallel printer (optional), 1 barcode scanner (optional), 1 keyboard interface • Printout: Thermal recorder, 50mm width paper, multitude of printout formats, printer optional • Operating Environment Temperature: 15 °C~30°C Humidity: 30%~85% <p>Power Requirement: AC 100-240V, 50/60Hz</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <p>Inverted frame, Revolving nosepiece vertical movement, with observation tube and 10X wide field eyepieces (2pcs) 4000K color temperature LED light illumination with Lifetime 20,000 hours. Inverted frame integrated trinocular tube, Aperture diaphragm, Filter holder,</p>	<p>01</p>
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		<p>Interference green contrast filter 45mm dia. observation tube with stroke for interpupillary width 48mm~75mm Diopter alignment available at eyepieces., Light intensity ratio 100:0 / 0:100. Condenser with numerical aperture: 0.3 Working distance: 72mm Applicable objective magnification 2X,4X, Phase Objectives 10X ,20X,40X(All objectives should be Fluorite grade), up to 190mm height tissue flask can be loaded on the stage. Attachable mechanical stage with right-hand vertical low drive controls. XY handle, Handle position Right side, Stroke 110mm(X)×74mm(Y), Stage inserts for Petridish, slide and hemacytometer.</p> <p><u>100 Watts Reflected Fluorescence illuminator with Blue, Red & Green Filters:</u></p> <p>Reflected light fluorescence illuminator equipped with field stop, 3-position fluorescence slider and 3-position (Light balance filter, empty and shutter) Light balance slider, including Shield unit, UV Excitation Filter set, B excitation filter set & G excitation filter. “Umbral Shield” Room light blocking plate is attachable to the condenser. Lamp house for 100W mercury burner with collector lens and connecting cable. 100watts Power supply unit for Mercury lamp. 100W mercury burner, Power Card.</p> <p><u>HIGH RESOLUTION CAMERA ALONG WITH ANALYSIS SOFTWARE:</u></p> <p>Back side illuminated Balance of Resolution and Speed, 6.4MP Monochrome digital camera. Sensor type 1/1.8-inch Monochrome CMOS, Pixel size 2.4 μm × 2.4 μm, Dynamic range 10-bit, Manual exposure: 13 μs–15 s, Auto exposure: 13 μs–15 s, USB 3.1 Type-C. Fast Live image display in low light conditions (frame rate) 45 fps (full resolution), 59 fps (binning 2 × 2—high speed), 60 fps (full HD). High resolution at 30 frames per second (fps), high quality FI, Ph, DIC images, can share images using cellSens imaging software with the NetCam solution or using the optional standalone controller’s image sharing function.) (Active noise reduction), Fast Live (fast live image in low light conditions), Focus peaking (visual assistant for manual focus), Hot pixel calibration, Sharpness filter.</p> <p>View Overlay multiple images, Document groups for side-by-side image comparison, Movie playback, Tile view (multiple images in a single data set shown side-by-side) Snap/movie acquisition, Time-lapse at specified interval, Automated multiwavelength, Geometry/combine/filter processing, Region and line measurement, Interactive measurement •Object counting (manual)</p> <p>•Manual panoramic imaging, Manual Process. Instantly create EFI image Manual Process. OPTIONAL: Training of Neural Networks- Deep Learning Module available. OPTIONAL - Remoting Remote live image viewing, NetCam module available.</p>	
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SLDL 015	Electroporator	<p>Computer: Intel Core i3/5 processor, suitable intel mother board, DVD Witter, 2GB RAM, 500 GB HDD, Graphics card 1 GB VRAM, LED Monitor, Key Board, Mouse, Windows 7/10 Professional, SP3, fire wire port.</p> <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • The Electroporator should enable the easy and rapid introduction of foreign DNA into bacteria, yeasts and other microorganisms. • The instrument usage should be self-explanatory with intuitive fast and freely programmable function keys to guide the user • It should be user friendly with easy one-button operation, it should have a large legible color display • Instrument should have an integrated electroporation chamber – the cuvette Holder (with electrodes) slides inside the instrument, hence the process of electroporation takes place inside the machine – with high security standard: safe electronics (US Patent) – Ensuring safety both for user and sample from “arcing” due to external electrodes • The device has been specially optimized for targeted transformation experiments with the highest possible efficiency. • Instrument should be compact, with space-saving design - small and portable - Requires minimum bench-top space • It should be possible to transfer and document data via USB port – For data export especially in GLP protocols • Programmable voltage and optimized, fixed pulse times. Operates on Exponential diminishing/decay mode electricity regime. • Robust housing with disinfectable surfaces • Preadjusted voltages for the most frequent applications. Directly adjustable voltage and fixed time constant • Data documentation via printer or PC • Pulse Voltage: 200-2500 V • Pulse form: Exponentially Diminishing 	01
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SLDL 016	CO2 Incubator	<ul style="list-style-type: none"> • Time Constant: 5 ms (nominal) • Resistance: 600 Ω • Capacitor: 10 μF • Should have electronic safety switch for eliminating short-circuits. <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • Should have at least 167 L of internal capacity. • Temperature management of at least 4°C above ambient to 50°C with control increment of 0.1°C • Temperature accuracy should be + 0.4 °C at 37oC as per 27 points in the chamber according to German norm DIN 12880* and ambient 22oC, Temperature stability of + 0.1°C at 37°C and ambient 22oC, and Temperature uniformity of + 0.3°C at 37°C and ambient 22°C • CO2 gas range should be at least 0.1 – 20% with control increment of 0.1%, accuracy should be + 0.3% at the specified Relative Humidity (RH) at 37°C and ambient 22°C, stability of + 0.1% at 37 °C and ambient 22°C and gas uniformity of + 0.1% at 37 °C and ambient 22°C across the chamber. • CO2 recovery rate of at least of 6 min after door opening and closing event to attain 5% CO2. • The input gas pressure required should be 0.1 MPa (1 bar, 14.4 psi); operational gas pressure requirement range should be 0.05 -0.2 MPa (0.5 – 2 bar, 7.2 -29.0 psi). The gas tubing should have inner diameter of 6.5 mm and outer diameter of 10 mm • Should have optional High-Temperature Disinfection [HTD] of at least 140 °C for 2 hours. Entire HTD cycle [including the time for warming up and cooling down to incubation temperature (37oC)] should not take more than 14 hours. • The system should have BMS relays built in and option to incorporate onto Data monitoring and documentations modules. • The door hinges, associated cable and other accessories should be robust and stringently tested. * 	01
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		<ul style="list-style-type: none"> • Should have a large backlit display for control of temperature and alarms • Should have separate single inner glass door for monitoring of samples without disturbing conditions of the chamber. • Should come with an inline pressure regulator to ensure less gas consumption and prevent overshooting of pressure which shortens life span of incubator. • The Inner chamber should be formed from single stainless-steel sheet with deep-drawn and seamless design with no corners, welds or joints for higher capacity and ease of cleaning. • Should have six-sided direct heating elements to ensure even distribution of heat throughout the entire incubator chamber. • Should come with a removable humidity tray for easy cleaning and refilling of distilled water. • Should be “fan less” design to reduce chance of contamination, reduce noise level, minimum air turbulence and bigger usable capacity. • Should have state of the art Dual Channel Infra-Red (IR); NDIR type CO2 sensor with auto-calibration feature to ensure accuracy of sensor automatically and should withstand at least 180 °C during high temperature disinfection. • The CO2 IR sensor should have a long-life. • The incubator should come with standard 4 perforated stainless-steel shelves; thickness of each shelf is 1.5 mm with flatness tolerance of individual shelves of 1 mm or lesser. • The footprint should not exceed 5026 cm² for saving bench space. • The height of the incubator should not exceed 90 cms and should have option to stack two incubators with stacking kit. • The weight should not exceed 90 kg. • Should have optional building management system relays. • Should have 02 Nos. Access ports at the back of the chamber to allow for external probes, etc., for third party monitoring of chamber conditions. • Should have optional incubator software command which allows tracking key operational information such as time, temperature, CO2 concentration and humidity. • Should conform to CE certification standards. • 46.5L Co2 cylinder and suitable regulator should be supplied along with the instrument. <p>Should supply suitable servo voltage stabilizer along with the instrument</p>	
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<p>SLDL 017</p>	<p>ICPMS(Inductively Coupled Plasma Mass Spectrometer)</p>	<ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment • should be capable of analyzing accurately and precisely of common, rare, toxic elements, trace elemental profiling of metals at ppm, ppb and ppt levels in various type of environmental samples such as water, soil, sediments, sludge and waste extracts/ digests, industrial, mining/metallurgy, natural water systems/hydrogeology, geology & soil science, biological/forensic, food and pharmaceutical samples. • The system should be a space saving, compact bench top model can fit into allocated lab space with all the sub-systems and accessories. <ul style="list-style-type: none"> ○ Operational Requirements • Software control for automatic data acquisition and processing. • Calibration ion source - Auto & manual • Calibration of Mass Spectrometer - Auto & manual • Data Validation • Self-diagnostics • Multi element analysis capability • Remote diagnostics • LAN connectivity. <ul style="list-style-type: none"> ○ Sample introduction system Nebulizer • flow rate on equivalent technology <p>Spray Chamber</p> <ul style="list-style-type: none"> • System with Peltier cooled spray chamber will be preferred as it offers precise control over the samples to be injected in to plasma. <p>Torch</p> <ul style="list-style-type: none"> • Easy mountable single piece quartz torch with shield torch. • Computer control of the Torch 	<p>01</p>
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		<ul style="list-style-type: none"> • Torch movement should be completely computer controlled and auto tunable in x-y-z directions with independent movements in the three directions, system should not be manually aligned. • Provision for auto-alignment of the torch after routine maintenance with reproducibility better than 0.1 mm in x-y-z directions <ul style="list-style-type: none"> ○ Interface Ion Extraction • Ion extraction from plasma shall be accomplished by a two-cone (sampler & skimmer) type interface. <ul style="list-style-type: none"> ○ Supply of Standards and Spares • Standards for Low, Medium and High mass ranges for calibration • Calibration standards for ICP-MS – Single element standard for all elements -2 sets with expiry of minimum 2 years (Minimum pack or 100 ml whichever is lower) • Micro pipettes of 1000µl and 20-100 µl <ul style="list-style-type: none"> ○ Software Requirements <p>The system software shall support the following calibration curve fit modes for quantitative analysis</p> <ul style="list-style-type: none"> • Quantitative analysis including external calibration, additions calibrations, method of standard additions and quantitative analysis • On-line help with quick steps to reference entire instrument user manual • Data reprocessing on stored data without re-running samples for changes of calibration points, internal standard points or curve fit mode. software should control plasma, MS and other accessories like auto sampler • Software must have inbuilt methods available for routine samples to enable fast turnaround time after installation and commissioning. <ul style="list-style-type: none"> ○ Chiller <p>Chiller for the ICP-MS should be supplied / equivalent.</p> <ul style="list-style-type: none"> ○ Power Supply • Power input to be 220-240VAC, 50Hz fitted with BIS plug (ISI mark) <ul style="list-style-type: none"> ○ UPS and Others 	
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		<p>Reputed online highly branded UPS of 15 KVA capacity or above which can support ICP-MS, Chiller and Exhaust unit simultaneously has to be supplied with SMF battery backup of minimum 1 hrs Display: indicator display and alarm system</p> <ul style="list-style-type: none"> ○ Supply of gas cylinders & related accessories <ul style="list-style-type: none"> ● Essential high purity chemical reaction gases ● Argon – 4 cylinders ● He – 1 cylinder ● Any other gases cylinder for the working of the system shall be provided minimum two number <p>All accessories such as auto change over regulator, gas purification panel unit, cylinder cage or Bracket etc. should be done by the supplier for the connection of instrument, along with installation.</p> <ul style="list-style-type: none"> ○ Exhaust unit <ul style="list-style-type: none"> ● Exhaust unit for the ICP-MS has to be supplied along with the system along with installation ○ Computer <ul style="list-style-type: none"> ● A branded PC with I- 5 processor with 8GB RAM, 2GB Graphics Memory, 1TB SSD HARD Disk, minimum of two LAN ports, DVD/Blu-Ray, 21” LED Monitor, <p>Reputed Branded colour Laser jet printer and automatic back-to-back should be provided</p> <ul style="list-style-type: none"> ○ Warranty and CMC <ul style="list-style-type: none"> ○ Warranty: CAMC for Three Years including Microwave digestion from the date of installation for ICP-MS, Exhaust system, UPS, and Computer CMC ○ Standards, Safety and Training <ul style="list-style-type: none"> ● Safety interlocks for plasma compartment door, water flow and Temperature and exhaust air flow. UV shielded viewing window Adjusting plasma position manually. System shall provide Interlocks, independent of PC and if levels exceeded. a. Remove DC & RF voltages to the quadruple. b. Shut down Turbo Molecular Ramp. c. Semi fill vacuum 	
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SLDL 018	Auto Sliding Glass Door with Sensor Control System	<p>chamber with Argon to prevent back diffusion of atmospheric gas and moisture</p> <ul style="list-style-type: none"> • On site comprehensive training for lab staff and support services till customer satisfaction with the system. • Suppliers of the instrument must provide free installation, commissioning and testing of the equipment in the laboratory • Manufacturer should certify to provide for a minimum period of 10 years guaranteed supply of spares and adequate servicing of the instrument and facility to upgrade it whenever applicable • Manufacturer/Supplier should have ISO certification for quality standards. <ul style="list-style-type: none"> ○ Documentation • User/Technical/Maintenance manuals to be supplied • Certificate of calibration and inspection. • List of Equipments available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service/technical manual. • List of important spare parts and accessories with their part number and costing • Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered • Current user's and performance list to be provided Minimum 5 no's for quoted Model in India - Mandatory <ul style="list-style-type: none"> ○ Microwave digester of 1800W with 8 vessels for sample processing with accessories • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • Dimensions (H x W): 7' x 4' • Door Type: Toughened Glass Sliding Door • Opening Speed: 0.8 M/s 	01
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SLDL 019	BOD Incubator	<ul style="list-style-type: none"> • closing Speed: 0.8 M/s • Opening & Closing Force: 10 to 150 N • Hold Open time: 1 to 5 sec • Door Type: Single • Door Weight: 1x60 kg • Door Width (Max Open): 1000 m • Door Width (Total): 2200mm • AC Input Power: 230V/50HZ/50 W • Open Close Speed: 250-500 mm /Sec • Opening Time: 2-10 sec • Lock Force: >200 N • Hand Push Force: <30N • Program Controller: Micro controller based • Motor: DC 24 V Brushless • Aluminum Channel: 2200 mm with Cover • Accessories: Wireless Push SW x 2 • Safety Sensor: Photo Beam Sensor <p>Optional: Microwave Motion Sensor</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • It should have chamber capacity of 150ltr. • Exterior construction should be epoxy powder coated steel. • It should have Interior construction of SS 304 • It should have Chamber illumination with LED strip light. • It should be supplied with Stainless steel Wire Mesh Shelves 3 nos. • It should have fitted with stainless steel vertical channels (CNC Press Punched) for height adjustment of trays in steps of 25mm. • It should have seamless round cornered internal chamber ensures easy cleaning. • It should have Eye level door mounted controller with flush but embossed button panel for easy setting, access and checkup of operating status. • It should have Efficient internal circulating fan(s) with self-lubricating sleeve bearings for long life and silent operation. • The bottom of internal chamber should be Solid and plain without any electrical fitting. 	01
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<p>SLDL 020</p>	<p>Hot Air Oven</p>	<ul style="list-style-type: none"> • It should have Digital PID temperature controller with stainless steel sheathed PT100 sensor for precise monitoring & control. • The controller should have timer with bypass mode; auto tuning and alarms. • The controller should have Seven segment LED display. • It should have Temperature range: +5°C to 60°C • It should have control accuracy ±0.5°C. • It should have independent Over temperature safety protection and should be user settable. • It should have Over current protection. • It should have High tempered safety glass of 5mm for internal door. • It should have PUF insulation. • It should have Heavy duty PU casters for ease of movement. • It should have Environment friendly CFC free hermetically sealed compressor. • Supply Voltage: 230 V AC, 50 HZ, Single phase. • Calibration reports with NABL traceability. • Manufacturer shall be ISO 13485 certified & should submit photocopy for the same. • Local Service Setup for prompt and efficient post-sales support. • Should have provision for 21CFR part 11 software. • Should have RS 485 port for communication. <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • It should have Chamber capacity of 150ltr. • It should have Exterior construction of SS 304 • Chamber should be at least 1 mm thickness. • Oven Interior construction must be of stainless steel 304 grade. • It should have door construction having double tempered sandwich glass window to enable user for easy viewing of samples without door opening. 	<p>01</p>
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		<ul style="list-style-type: none"> • It should be provided with specially composed nickel, iron and chromium heating element, should have ability and strength to withstand high temperatures, resist oxidation and other types of high temperature corrosion. • Oven should be provided with Impellor type Aluminium blower for internal circulation for better uniformity. • It should be provided with Noncontact type door switch for auto cut off when door opens during operation. • It should have fitted with stainless steel vertical channels (CNC Press Punched) for height adjustment of trays in steps of 25mm. • It should have Seamless round cornered internal chamber ensures easy cleaning. • It should have Solid and plain bottom without electrical. • It should have Digital PID temperature controller with PT100 sensor for precise monitoring & control • Controller should be Equipped with timer (timer bypass option should be available), auto tuning and alarms. • Controller should have Seven segment LED display. • Oven Temperature range: ambient +10°C to 250°C • Control accuracy $\pm 0.5^{\circ}\text{C}$ • It should have independent Over temperature safety protection and should be user settable. • It should have Over current protection. • Oven should be CE certified. • Supply Voltage: 230 V AC, 50 HZ, Single phase. • Calibration reports with NABL traceability. • Manufacturer shall be ISO 13485 certified & should submit photocopy for the same. • Local Service Setup for prompt and efficient post-sales support. • Should have RS 485 port for communication. <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment 	
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SLDL 021	Fully Automated Autoclave	<ul style="list-style-type: none"> • The Vertical Autoclave should have Chamber Capacity of 75 to 90 ltr. • The chamber of Vertical Autoclave should be manufactured as per ASME standards. • The Vertical Autoclave should work on the domestic power supply of: 230 V AC, 50 HZ, Single phase. • The units internal chamber, cover lid and all wetted parts should be fabricated from stainless steel of 304 grade. • The Vertical Autoclave's all joints should be smooth finished for crevice free internals. • The chamber should be hydrostatically tested at 1.5 times of its working pressure. • The outer body should be made up of MS sheet with heat cured epoxy coating on both sides. • The lid should be equipped with single lever lock mechanism and lever handle moulded from industrial plastic. • The lid should be provided with auto purge cum vacuum breaker valve and a manually operable valve for exhaust. • The unit should have a solenoid valve for auto purging of air & normal exhaust. • The Vertical Autoclave should have stainless steel pressure gauge with dual range dial display in KPA and PSI along with a co-related temperature scale for steam in degrees Celsius. • The operations of the unit should be controlled by a microprocessor-based controller. • The user should be able to set the temperature up to 122oC in steps of 0.1oC each. • The user should be able to set the Sterilization hold time in steps of 1 minutes each. • The timer range should be up to 95 mins. • In case of abrupt power failure / switching off, the Last Cycle which was set should remain in the memory. • The display for the parameters should be Two-line Alpha-Numeric digital display. • The unit should be equipped with Low Water Detection unit and should give Audio- Visual alarm in case of Low Water in the chamber and cut off the supply to the heater. 	01
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SLDL 022	Incubator	<ul style="list-style-type: none"> • The unit should have safety valve to protect the equipment in case of over pressurization. • The Lid should be equipped with pressure interlock device. Also, the heater should not start if the Lid is open. • The unit should be provided with safety cut-out for high temperature. • The unit should give indication by audio-visual alarm on completion of set autoclave cycle. • The electrical safety should be ensured by inbuilt MCB. • The unit should be mounted on 04 Nos. PU coated castors out of which atleast 2 should have locking mechanism • The Vertical Autoclave should be CE certified. • Manufacturer shall be ISO 13485 certified & should submit photocopy for the same. • Local Service Setup for prompt and efficient post-sales support. • Calibration reports with NABL traceability <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment <ul style="list-style-type: none"> • It should have Chamber capacity of 150ltr. • Exterior construction should be epoxy powder coated steel. • It should have Chamber thickness of at least 1mm. • It should have Interior construction of stainless steel 304. • It should be provided with 5mm frameless tempered safety glass inner door enables easy monitoring without variation in temperature. • It should have Special Quartz tube enclosed heaters for safety and efficient heating • It should be provided with SS Wire Mesh Shelves 3 no's, adjustable height in steps of 25 mm. • It should be provided with Seamless round cornered internal chamber ensures easy cleaning. • It should have Eye level door mounted controller for easy access and check operating status. 	01
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		<ul style="list-style-type: none"> • It should have Internal circulating fan. • It should have Solid and plain bottom without electrical. • It should have Digital PID temperature controller with PT100 sensor for precise monitoring & control • Controller should be Equipped with timer (timer bypass option should be available), auto tuning and alarms. • Controller should have Seven segment LED display. • Incubator Temperature range: ambient +5°C to 70°C • Control accuracy $\pm 0.5^{\circ}\text{C}$ • It should have independent Over temperature safety protection and should be user settable. • It should have Over current protection. • Incubator should be CE certified • Supply Voltage: 230 V AC, 50 HZ, Single phase. • Calibration reports with NABL traceability only. • Manufacturer shall be ISO 13485 certified & should submit photocopy for the same. • Local Service Setup for prompt and efficient post-sales support. • Should have Rs 485 port for communication <p>Should supply suitable servo voltage stabilizer along with the instrument.</p> <ul style="list-style-type: none"> • Warranty should be for three years from the date of installation of the equipment 	
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**Annexure II
Declaration**

1. I/We have not been black listed in any department due to any reasons during last 3 years
2. I/We have not been demoted to lower category in any department for not filing the tenders after buying the tender schedules in a whole year and their registration had not been cancelled for a similar default in two consecutive years.
3. I/We will agree to get disqualified my (our) selves for any wrong declaration in respect of the above and get my/our tender summarily rejected.
4. The soft copies uploaded by them are genuine and not forged. Any incorrectness / deviation noticed can be viewed seriously and apart from canceling the work duly forfeiting the bid security, criminal action can be initiated including suspension of business and/ or black listing.
5. I/We submitting a demand draft no. _____ dated _____ issued by _____ for Rs. _____ towards the EMD.

Signature of Tenderer
Date
Address

Annexure III

Check List

Sl.No	Yes/ No	Name of the Document
1.		Declaration Form (Annexure II)
2.		Manufacturing License / Authorization letter from the Manufacturing firm
3.		Earnest Money Deposit
4.		GST/VAT/Sales Tax Clearance Certificate, payment particulars for preceding two years along with supporting Documents. (2018-19& 2019-20)
5.		Annual Turnover Assessment order for the preceding two years (2018-19& 2019-20) certified by Commercial Tax Officer / Chartered Account
6.		Copies of balance Sheet, Profit and loss Account for last two years i.e. (2018-19& 2019-20) duly certified by the Auditor
7.		Latest Non-Conviction Certificate (In Original) If applicable
8.		Users list for the item/ equipment during past 4 years
9.		BIS / ISO/ CE issued by the Competent Authority
10.		APSSIDC/NSIDC Certificate, if applicable
11.		Government Ownership Certificate, If applicable
12.		List of service centres with contact details

ANNEXURE – IV

FINANCIAL BID

I/We quote the rates FOR, PRINCIPAL INVESTIGATOR, STATE LEVEL DIAGNOSTIC LABORATORY, SVVU, TIRUPATI inclusive of all taxes, duties, transportation, insurance, installation etc., as below.

Sl. No.	Name of the item	No. of Units	Price per Unit (Rs)	Total amount (Rs)

The articles will be ready for delivery within ____ days from the date of receipt of firm orders.

Yours faithfully,

(Signature and stamp of the Tenderer state legal status whether prop. Partner, Registered firm, Company etc)

Encl: Information brochure enclosed

EMD – DD No.

Dt.

For Rs. _____

Note: 1. Attach additional sheets giving full particulars such as name and address of the proprietor or list of partners and their addresses or particulars of registered firm or of the company and the specifications of the equipment furnished.

2. Rates quoted should be marked clearly with main price and taken separately. Total price after taking all the actuals will be taken as financial quote for comparison. 1