

DIAMOND HARBOUR WOMEN'S UNIVERSITY

NOTICE INVITING e-TENDER

Online Tenders are invited for Delivery and Installation of instruments of Zoology Laboratory. The works includes Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour Women's University.

Reputed suppliers/ vendors / bidders having sufficient experience and credentials for successful completion of "Similar Nature" of work in a Government Department/PSU/Autonomous Body/University or any reputed organization. Bidder must have adequate Service Personnel for providing on-site warranty service within the stipulated time.

1	Tender No. & Date	E-NIT/Zoolab/27/DHWU/2019 dated 19.10.2019
2	Brief description of Job	Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour Women's University.
3	Tender Fee	NIL
4	Earnest Money Deposit	Rs.30,000.00 (Rupees Thirty Thousand only) in the form of Demand Draft from any Scheduled bank in favour of Diamond Harbour Women's University at Sarisha
5	Date of Downloading / Sale of Tender 19.10.2019 document	19.10.2019 from 5.00 pm
6	Bid Submission Start date & time	19.10.2019 from 5.00 pm
7	Last date & time of EMD & Tender Fee submission (offline)	07.11.2019 at 12.30 pm
8	Last date & time of Bid Submission	07.11.2019 at 12.30 pm
9	Date & time of Technical Bid Opening	11.11.2019 at 12.30 pm
10	Submission of EMD	DIAMOND HARBOUR WOMEN'S UNIVERSITY, Sarisha, Diamond Harbour Road, 24 Pgs (S), 743368
11	Contact	(03174) 245801 / 802

1. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary tender fee may be remitted through Demand Draft issued from any Scheduled Bank in favour of “DIAMOND HARBOUR WOMEN’S UNIVERSITY”, payable at Sarisha and also to be documented through e-filling. Cost of Earnest Money Deposit (EMD) may be remitted through Demand Draft issued from any Scheduled Bank in favour of “DIAMOND HARBOUR WOMEN’S UNIVERSITY”, payable at Sarisha and also to be documented through e-filling. The original Demand Draft against Tender Fees & Earnest Money Deposit (EMD) should be submitted physically to the office of DIAMOND HARBOUR WOMEN’S UNIVERSITY, Sarisha, Diamond Harbour Road, 24 Pgs (S), 743368 under sealed cover on or before 11:00 Hrs of 07.11.2019. In this E-NIT tender fee is not required but EMD is required.
2. Both Techno Commercial Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in>
3. Tender documents may be downloaded from website and submission of Techno Commercial Bid and Financial Bid will be done as per Time Schedule stated in Section – C of this Tender Document.
4. The Financial Bid of the prospective Bidder will be considered only if the Techno Commercial Bid of the bidder is found qualified by the Tender Committee. The decision of the ‘Tender Committee’ will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.

CONTENTS OF THE TENDER DOCUMENT

The Tender document comprises of the following:

SECTION – A	SCOPE OF WORK & RESPONSIBILITY
SECTION – B	ELIGIBILITY CRITERIA
SECTION – C	DATE AND TIME SCHEDULE
SECTION – D	INSTRUCTION TO BIDDER
SECTION – E	BID FORM
SECTION – F	TECHNO COMMERCIAL EVALUATION & AWARDDING OF
SECTION – G	CONTRACT GUIDANCE FOR E-TENDERING
SECTION – H	BILL OF MATERIAL
SECTION – I	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT
SECTION – J	DETAILS OF ORDERS EXECUTED BY BIDDER FINANCIAL
SECTION – K	CAPABILITY OF BIDDER
SECTION – L	BIDDER’S DETAILS
SECTION – M	MANUFACTURER’S AUTHORIZATION FORM
SECTION – N	PRE-BID MEETING QUERY
SECTION – O	LIST OF CLIENTS OF SIMILAR ORDERS
SECTION – P	PROFORMA FOR PERFORMANCE BANK
SECTION – Q	GUARANTEE NIT DECLARATION

SECTION – A

SCOPE OF WORK & RESPONSIBILITY

For vendors / bidders:

- 1) **Supply:** Entrusted bidder must supply and work as per work order. All supplies must be certified. Supplied components must satisfy the specifications and guidelines, as applicable. Bidder is allowed to propose only one make / model per system or software or items required for the proposed solution. Bids with optional offers would be summarily rejected.
- 2) **Installation, Integration & Implementation:** Delivery & Installation will be governed by the stated guidelines and associated standards & in line with the scope of work defined in this document. The delivery / supply of the materials done by successful Bidder at respective location only. The Post installation warranty supports are the sole responsibility of the Original Equipment Manufacture (OEM) and /or bidder.
- 3) **Service Quality and Assurance:** Services within installation, warranty period must be rendered with OEM for hardware.
- 4) **Warranty:** All hardware component service items should have minimum warranty period of period i.e. 12 months from the date of final acceptance of the system by the user. Within warranty period, entrusted OEM will replace, re-integrate faulty, buggy components.
- 5) **Delivery:** All materials are to be delivered at office of the Diamond Harbour Women's University. After necessary checking, testing, marking of the all materials under supervision of DHWU. Successful bidder will take necessary step to transport the material at installation site and take up the installation there at their own cost.
- 6) **Warranty Certificate:** On successful installation bidder to get installed equipments with actual serial no. duly certified by respective OEM for minimum one year warranty coverage. Any change in equipment serial no. should be reflected in OEM website or OEM declaration in their Letter head. Final Bills will be submitted after completion of this activity.

SECTION – B

ELIGIBILITY CRITERIA

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder should have their presence in Kolkata with own office. Valid proof should be submitted along with the bid.
3. The bidder should have valid GST Registration Certificate, PAN & Trade License. Bidder shall have to submit photocopy of the documents.
4. The bidder shall have executed “Similar Nature” of single order.
5. Bidder should submit Earnest Money Deposit (EMD) of Rs. 30000.00 (Rupees Thirty Thousand Only) in the form of Demand Draft from any Scheduled Bank in favour of DIAMOND HARBOUR WOMEN’S UNIVERSITY payable at Sarisha.
6. Manufacturers tender specific authorizations for Zoology Laboratory Instruments must be submitted as per format enclosed (Section - M).
7. The bidder shall submit Bid Form (Section – E) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
8. The bidder shall not have been blacklisted by any University/State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal. **Declaration on bidder’s letter head to be submitted.**

SECTION – C

DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	19.10.2019 from 5.00 pm
2	Documents download / sale start date (Online)	19.10.2019 from 5.00 pm
3	Last Date and time of sending the queries (Offline)	31.10.2019 from 12.30 pm
4	Corrigendum, if any will be published (On Line)	NA
5	Bid Submission start date & time (On line)	19.10.2019 from 5.00 pm
6	Last Date & time of submission of original Demand Draft/Pay Order for cost of Earnest Money Deposit (Off line)	07.11.2019 from 12.30 pm
7	Bid Submission closing date & time (On line)	07.11.2019 from 12.30 pm
8	Bid opening date & time for Technical Proposals (Online)	11.11.2019 from 12.30 pm
9	Date for opening of Financial Bid (Online)	To be notified later

SECTION – D

INSTRUCTION TO BIDDER

1. DEFINITIONS

In this document, the following terms shall have following respective meanings:

“Acceptance Test Document” means a document, which defines procedures for testing the functioning of installed system. The document will be finalized with the contractor within 7 days of issuance of the Letter of Award.

“Bidder” means any firm offering the solution(s), service(s) and /or materials required in the tender. The word Bidder when used in the pre award period shall be synonymous with Bidder, and when used after award of the Contract shall mean the successful Bidder.

“Contract” is used synonymously with Agreement.

“Contract Price” means the price to be paid to the Contractor for providing the Solution, in accordance with the payment terms.

“Contractor” means the Bidder whose bid to perform the Contract has been accepted by Tender Committee and is named as such in the Letter of Award.

“Default Notice” mean the written notice of Default of the Agreement issued by one Party to the other.

“Installation” means installation of Instruments of Zoology Laboratory of Diamond Harbour Women’s University.

“Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels.

“Good Industry Practice” shall mean the exercise of that degree of skill, diligence and prudence which would reasonably and ordinarily be expected from a reasonably skilled and experienced Operator engaged in the same type of undertaking under the same or similar circumstances.

“GoI” shall stand for the Government of India.

“GoWB” means Government of West Bengal

“Personnel” means persons hired by the Bidder as employees and assigned to the performance of the Infrastructure Solution or any part thereof.

“Similar Nature of Work” means of Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour Women’s University.

“Project” Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour Women’s University.

“Services” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed Scope of Work.

“Interest rate” means “364 days Government of India (GoI) Treasury Bills” rate.

"Law" shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/or the Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

“LOI” means issuing of Letter of Intent shall constitute the intention of the DHWU to place the Purchase Order with the successful bidder.

"Operator" means the company providing the services under Agreement

“Requirements” shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.

“Service" means provision of Contracted service viz., operation, maintenance and associated services for DEPLOYED SYSTEMS as per Section titled “Scope of Work”

“Termination Notice” means the written notice of termination of the Agreement issued by DHWU.

"Uptime" means the time period when specified services are available with specified technical and service standards as mentioned in section titled WARRANTY SUPPORT” "%Uptime" means ratio of 'up time' (in minutes) as mentioned in section titled “Warranty support”

"Service Down Time" (SDT) means the time period when specified services with specified technical and operational requirements as mentioned in section titled "WARRANTY SUPPORT" are not available to DHWU and its user departments and organizations.

"DHWU" means DIAMOND HARBOUR WOMEN'S UNIVERSITY.

2. COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of the bid and DHWU will in no case be responsible for those costs regardless of the conduct or outcome of the bidding process.

3. BID DOCUMENT

Bidder is expected to examine all instructions, forms, terms and requirements in the bid document. The invitation to bid together with all its attachments thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the invitation by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result in the bid being rejected.

4. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, DHWU reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to all the Bidders who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

5. MODIFICATION AND WITHDRAWAL OF BIDS

As per the bidding process available in the tender.

6. LANGUAGE OF BID & CORRESPONDENCE

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & DHWU will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

7. BIDDER'S SOLUTION

The bidders are requested to study the Bill of Materials supplied with this document carefully. While working out the solution the bidder has to work with the broad specification provided in the tender documents, conforming to the model, make and Part number (wherever provided). While submitting the bid the bidder has to detail out all components needed to complete the system BOM. The bidder is required to quote for each item retaining all major components/sub system detailed and specified. As the contractor will be responsible for smooth functioning of the system, availability of spares during the tenure of the warranty period have to be taken care of by the contractor to maintain the guaranteed uptime.

8. EARNEST MONEY DEPOSIT (EMD)

The firm shall furnish an EMD of Rs. 30,000.00/- (Rupees Thirty Thousand Only) in the form of a demand draft from a Scheduled Bank payable at Sarisha and in favour of DIAMOND HARBOUR WOMEN'S UNIVERSITY. Any bid not accompanied with the EMD shall be rejected.

9. FORFEITURE OF EMD

EMD made by Bidder may be forfeited under the following conditions: If Bidder withdraws the proposal before the expiry of validity period.

During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of DHWU regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.

If Bidder violates any of the provisions of the terms and conditions of the proposal. In the case of a successful Bidder, if Bidder fails to:

- a) Accept the work order along with the terms and conditions.
- b) Furnish performance security.
- c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of DHWU regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD even the Bidder will be deferred from participating in any job for a period of one year.

10. FORMS AND FORMATS

The various inputs for the Technical, Commercial and Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

11. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid.

12. CONTRACT EXECUTION

On receipt of the Letter of Award/Purchase Order the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 10% of the total contract value within three weeks from the date of receipt of Letter of Award/Purchase Order. The PBG should be valid for six months more than the warranty period. All delivery of the material will have to be completed within 30 days from the date of acceptance of contract and the contractor has to ensure all activities leading to the commissioning of the contract to be completed within 45 days from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

13. TIME SCHEDULE FOR DELIVERY & INSTALLATION

All delivery & Installation of the material will have to be completed within 4-6 weeks from the date of Order.

15. LOCATION OF DELIVER & INSTALLATION

The office of Diamond Harbour Women's University, Sarisha, Diamond Harbour Road, 24 Pgs (S), 743368

16. LIQUIDATED DAMAGE / PENALTY

The job includes the supply and installation of materials mentioned in the tender document. In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the contractor for sum not less than 0.5% of the contract value for that item/job for each week or part thereof, subject to a ceiling of 10% of the total contract value (excluding all taxes & duties and other charges). In the event of LD exceeds 10% of the order value, DHWU reserves the right to terminate the contract and DHWU will get the job completed by any other competent party. The difference of cost incurred by DHWU will be recovered from the contractor and PBG will be invoked.

17. LIABILITY

In case of a default on bidder's part or other liability, DHWU shall be entitled to recover damages from the Contractor. In each such instance, regardless of the basis on which DHWU is entitled to claim damages from the Contractor (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), Contractor shall be liable for no more than:

- Payment referred to in the Patents and Copyrights clause.
- Liability for bodily injury (including death) or damage to real property and tangible personal property limited to that cause by the Contractor's negligence.
- As to any other actual damage arising in any situation involving non-performance by Contractor pursuant to or in any way related to the subject of this Agreement, the charge paid by DHWU for the individual product or Service that is the subject of the Claim. However, the contractor shall not be liable for
- For any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data.

For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

18. PATENTS & COPYRIGHT

If a third party claims that a product delivered by the Contractor to DHWU infringes that party's patent or copyright, the Contractor shall defend DHWU against that claim at Contractor's expense and pay all costs, damages, and attorney's fees that a court finally awards or that are included in a settlement approved by the Contractor, provided that DHWU.

- Promptly notifies Contractor in writing of the claim
- Allows Contractor to control and co-operate with Contractor in the defense and any related settlement negotiations.

Remedies: If such a claim is made or appears likely to be made, DHWU would permit Contractor to enable DHWU to continue to use the product, or to modify it, or replace it with one that is at least functionally equivalent. If Contractor determines that none of these alternatives is reasonably available, DHWU agrees to return the product to Contractor on Contractor's written request. Contractor will then give DHWU a credit equal to for a machine. DHWU's net book value (provided DHWU has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by DHWU or 12 months charges (which ever is lesser) and for materials the amount paid by DHWU for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

19. SUSPENSION OF WORK

DHWU shall have the power at any time and from time to time by notice to the Contractor to delay or suspend the progress of the work or any part of the work due to any other adequate reasons and on receipt of such notice the contractor shall forthwith suspend further progress of the work until further notice from DHWU. The Contractor shall recommence work immediately after receiving a notice to do so from DHWU. The whole or any part of the time lost for such delay or suspension shall, if DHWU in its absolute discretion thinks fit, but not otherwise, be added to the time allowed for completion.

20. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from relevant customer.

21. GOVERNING LAWS

This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Diamond Harbour/Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but

without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

22. CORRUPT OR FRAUDULENT

The Tender Committee requires that the bidders under this Tender observe the highest standards of ethics during the procurement and execution of such contracts. For this purpose the definition of corrupt and fraudulent practices will follow the provisions of the relevant laws in force. The Tender Committee will reject a proposal for award if it detects that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question. The Tender Committee will declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

23. BIDDING CLAUSE

All decisions taken by the Tender Committee regarding the processing of this tender and award of contract shall be final and binding on all parties concerned.

The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

24. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other relevant acts and rules, compensation to a workmen employed by the contractor, is payable, then this should be done by the Contractor. If DHWU is obliged to make any compensation under the said rules and acts, then the amount shall be recovered without prejudice, from the bills and due of the Contractor. DHWU shall not be bound to contest any claim made against the Contractor in respect of workmen's compensation.

25. CONTRACTOR'S EMPLOYEES

The Contractor shall comply with the provision of all labour legislation including the requirement of the payment of Wage Act 1936 and the rules framed there under and modifications thereof in respect of men employed by him in carrying out the contract. The Contractor must ensure that he complies with PF, ESI regulation for all his deployed employees. The Contractor shall see that all authorized Sub Contractors under him similarly complied with the above requirement.

26. SAFETY MEASURES

The Contractor shall in the course of execution of the work take all necessary precaution for the protection of all persons and property. The Contractor shall take adequate measures to protect the work and prevent accident during the work. In the event of any accident to any person or persons or damage or injury of any description to any person or property due to failure on the part of the contractor in taking proper precautionary measures the contractor shall be responsible for and must make good the loss the damage at his own cost to the satisfaction of University and employees of the University shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

27. EQUIPMENT

All tools & tackles necessary for the work shall have to be procured by the contractor unless otherwise specified elsewhere in these tender documents. The equipment used by the contractor for a particular work must be appropriate for the type of work. The contractor shall maintain the equipment used on the work properly so that they are in good working condition. In no case shall the contractor use defective or imperfect equipment in the work. The contractor shall arrange to replace or repair all defective equipment so that the progress of the work is not hampered. No defective equipment should be left at the site of work and the University shall not be responsible for any loss or damage to any of these equipments during the course of the execution of the work.

28. SUB-CONTRACT

The purchaser (DHWU) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable.

29. TERMINATION FOR DEFAULT

DHWU may without prejudice to any other remedy or right of claim for breach of contract by giving not less than 30 days written notice of default sent to the contractor, terminate the order in whole or in part. If the contractor materially fails to render any or all the services within the time period specified in the contract or any extension thereof granted by DHWU in writing and fails to remedy its failure within a period of thirty days after receipt of default notice from DHWU. If the project (delivery, commissioning as well as warranty maintenance support is not carried out according to specification due to deficiency in service as per terms of the contract. In such case DHWU will invoke the amount held back from the contractor as PBG.

30. BANKRUPTCY

If the contractor becomes bankrupt or have a receiving order made against him or compound with his creditors or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, DHWU shall be at liberty to terminate the engagement forthwith without any notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contractor may become vested and without any compensation to give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by DHWU.

31. FORCE MAJEURE

It is hereby defined as any cause, which is beyond the control of the Contractor or DHWU as the case may be, which such party could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.
- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.
- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, nuclear and pressure waves or other natural or physical disaster.

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upto its or their performance of the Contract and to fulfill its or their obligation under the Contract but without prejudice to either party's right to terminate the Contract.

No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall

- Constitute a default or breach of the contract.
- Give rise to any claim fro damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

32. INSURANCE COVERAGE

Appropriate insurance to cover all solution components for the transit period and until the time of its acceptance at the respective site is to be taken by the contractor. As the contractor will carry the risk for the material in his books during transit, the contractor should arrange insurance for the total system as period from the dispatch till Acceptance Test is successfully achieved. Further the contractor is to take all required insurance coverage in respect of all its personnel who shall be working on this engagement.

33. WARRANTY

The OEM on behalf of bidder will warranty that products supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The Contractor would be responsible for the up keep and maintenance of the necessary deliverables under the scope of work during the entire warranty period. Within warranty period, entrusted OEM will replace, re-integrate faulty, buggy components.. The Contractor/OEM shall not, without the express prior written consent of DHWU, assign to any third party of the contract or part thereof. Service support for the entire warranty period will be on site and comprehensive (including spares) and free of cost for the entire warranty period. Warranty will be invalid if the equipment is serviced by unauthorized personnel of misuse is detected.

34. WARRANTY SUPPORT

The total system will be warranted against bad workmanship and manufacturing defects from the date of acceptance of the system whole or part. Service support for the entire warranty period will be on site.

35. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation and commissioning of equipment as well as performance of on-site warranty support, as mentioned in Bill of Material, from the date of final acceptance of systems/items and pertaining to proper running of the systems/items, the bidder will have to submit 10% of the contract value as security in the form of Performance Bank Guarantee from any nationalized bank as per format enclosed (Section – P).

36. CONTRACTOR'S RESPONSIBILITIES

Refer Section – A (Scope of Work & Responsibility)

37. NO WAIVER OF RIGHTS

Neither the inspection by DHWU or any of their agents nor any order by DHWU for payment of money or any payment for or acceptance of the whole or any part of the works by DHWU, nor any extension of time, nor any possession taken by DHWU shall operate as a waiver of any provision of the contract or of any power reserved to DHWU, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

38. GRAFTS, COMMISSIONS, GIFTS, ETC.

It is the Purchaser's policy to require that bidders, suppliers, contractors and consultants under contracts, observe the highest standard of ethics during the procurement and execution of such contracts. Any graft, commission, gift or advantage given, promised or offered by or on behalf of the contractor or his partner, agent, officers, director, employee or servant or any one on his or their behalf in relation to the obtaining or to the execution of this or any other contract with DHWU shall in addition to any criminal liability which it may incur, subject the contractor to the cancellation of this and all other contracts and also to payment of any loss or damage to DHWU resulting from any cancellation. DHWU shall then be entitled to deduct the amount so payable from any monies otherwise due to the contractor under contract.

39. ENFORCEMENT OF TERMS

The failure of either party to enforce at any time any of the provision of this contract or any rights in respect thereto or to exercise any option here in provided shall in no way be construed to be a waiver to such provisions, rights or options or in any way to affect the validity of the contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

40. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 180 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, DHWU may ask for extension of the period of validity and such a request shall be binding on Bidders. DHWU's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

41. TAXES & DUTIES

- The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid. The University has no DSIR Certificate till date.
- Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission.
- Bidder submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of tender submission.
- GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filling on the part of the bidder.

42. DISCREPANCIES IN BID

- Discrepancy between description in words and figures, the rate which corresponds to the words quoted by the bidder shall be taken as correct.
- Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate then the unit rate shall be regarded as firm.
- Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

43. BID DUE DATE

The online tender has to be submitted not later than the due date and time specified in the Important Dates Sheet. DHWU may as its discretion on giving reasonable notice by fax, or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the DHWU and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

44. LATE BID

Any proposal received by DHWU after the deadline for submission of proposals may not be accepted.

45. OPENING OF BID BY DHWU

Bids shall be opened and downloaded electronically through operation of the process in the e-Tender portal in presence of Tender Committee. Bidders interested to remain present during electronic bid opening may attend the bid opening session at DHWU premises at scheduled date & time.

46. CONTACTING DHWU

Bidder shall not approach DHWU officers beyond office hours and/or outside DHWU office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to influence DHWU office in the decision on Bid evaluation, Bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of DHWU, it should be in writing following the procedure mentioned hereinabove.

47. DHWU'S RIGHT TO REJECT ANY OR ALL BIDS

DHWU reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

48. BID CURRENCIES

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, cess etc.

49. PRICE

- Price should be quoted in the BOQ format only. No deviation is acceptable.
- Price quoted should be firm, inclusive of packing, forwarding, insurance and freight charges.
- Percentage/specified amount of taxes & duties should be clearly mentioned otherwise DHWU reserves the right to reject such vague offer.
- Price to be quoted inclusive of supply, installation & commissioning charges.

50. CANVASSING

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

51. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

52. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory (ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words/figures completely.

53. WITHDRAWAL OF BID

Bid cannot be withdrawn during the interval between their submission and expiry of Bid's validity period. Fresh Bid may be called from eligible bidders for any additional item(s) of work not mentioned herein, if so required.

54. INTERPRETATION OF DOCUMENTS

If any bidder should find discrepancies or omission in the specifications or other tender documents, or if he should be in doubt as to the true meaning of any part thereof, he shall make a written request to the tender inviting authority for correction/clarification or interpretation or can put in a separate sheet along with his technical bid document.

55. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

- a) Tenders shall be submitted in the prescribed forms. Digital signatures shall be used. Where there is conflict between the words and the figures, the words shall govern.
- b) All notations must be in ink or type written. No erasing or overwriting will be permitted. Mistakes may be crossed out and corrections typed or written with ink adjacent thereto and must be initialed in ink by the person or persons signing the tender.
- c) Tenders shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No written, oral, telegraphic or telephonic proposals for modifications will be acceptable.
- d) Tenders shall be uploaded as notified on or before the date and time set for the opening of tenders in the Notice Inviting Tenders.
- e) Tenders subject to any conditions or stipulations imposed by the bidder are liable to be rejected.
- f) Each and every page of the tender document must be signed with company seal by the bidder.
- g) Any bidder may withdraw his tender by written request at any time prior to the scheduled closing time for receipt of tenders and not thereafter.

56. PRE-DISPATCH INSTRUCTION

All instruments supplied against the purchase order shall be subjected to Inspection, check and /or test by the authorized representative from DHWU.

57. FINAL INSPECTION

Final inspection will be carried by the authorized representative from DHWU.

58. SITE INSPECTION

Bidder can inspect (at their own cost) the sites if required, for which they have to take necessary permission from DHWU in writing. DHWU will take at least four days to organize such permission.

59. ERASURES OR ALTERNATIONS

The offers with overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ions is not only signed by the authorized signatory of the bidder. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. The Customer may treat offers not adhering to these guidelines as unacceptable. The Customer may, at its discretion, waive any minor non-conformity or any minor irregularity in the offer. This shall be binding on all bidders and the Tender Committee reserves the right for such waivers.

60. COMPLIANCE WITH LAW

The contractor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The contractor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

61. CLARIFICATION OF BIDS

During evaluation of the bids, the Customer/Tender Committee, at its discretion may ask the bidder for clarification of its bid. The request for the clarification and the response shall be in writing (fax/email) and no change in the substance of the bid shall seek offered or permitted.

62. DEEMED ACCEPTANCE

Deliverables will be deemed to be fully and finally accepted by Diamond Harbour Women's University.

63. QUALITY CONTROL

- The contractor is obliged to work closely with DHWU and act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free DHWU and from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold DHWU responsible.
- The contractor will treat as confidential all data and information about the system/items, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of DHWU.
- DHWU reserves the right to inspect all phases of contractor's operation to ensure conformity to the specifications. DHWU shall have inspectors or other duly authorized representatives made known to the contractor, present during the progress of the work and such representatives shall have free access to the work at all times. The presence or absence of representatives of DHWU does not relieve the contractor of the responsibility for quality control in all phases.
- The Court of Diamond Harbour/Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

64. SITE NOT READY

The bidder shall not be in any manner liable for any delay arising out of DHWU inability to make the site ready within the stipulated period.

65. GENERAL TERMS

- a) All the pages of the bid document including documents submitted therein must be duly signed and stamped failing which the offer shall be liable to be rejected.
- b) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and DHWU reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.
- c) No Technical/Commercial clarification will be entertained after opening of the tender.
- d) Overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript is not only signed by the authorized signatory of the bidder. All overwriting should be separately written and signed by the authorized signatory of the bidder.
- e) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. DHWU reserve the right to increase or decrease the quantity specified in the tender.
- f) DHWU reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- g) DHWU reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- h) Supporting technical brochures/catalogues indicating each feature in respect of offered model and make must be submitted along with the offer, in absence of which the offer is liable to be ignored.
- i) No dispute by the bidders in regard to Technical/Commercial points will be entertained by DHWU and decision taken by the Tender Committee will be final.
- j) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- k) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- l) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- m) The customer/DHWU at its discretion may extend the deadline for the submission of Bids.
- n) The Court of Diamond Harbour/Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

65. OTHER TERMS AND CONDITION

1. The selected vendor has to supply, install, maintain, provide training and commissioning of the requisite hardware, software and peripherals at University.
2. The equipment/product must conform to the specifications given and of desired quality. Consistency in quality shall be maintained for the entire lot of products offered. All the required quantity of items in schedule of requirement shall be of the same brand and model. Substitution of any internal components or subsystems of the product by similar items of different manufacturers will not be accepted for whatsoever reason.
3. All the equipments shall be supplied with the relevant interface cables and necessary standard accessories.
4. The selected vendor shall be responsible for the quality of supply.
5. Non-removable stickers have to be pasted on all kind of materials /items with details of company name, address. Contact detail, service centre/ help line number and warranty expiry date.

6. The indenter's right to inspect, test and, where necessary, reject the Goods after the Goods arrival at delivery Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed, prior to the Goods shipment.
7. All items should be covered a warranty period of minimum one year.

SECTION – E

BID FORM

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head in original)

To
DIAMOND HARBOUR WOMEN'S UNIVERSITY
Sarisha, Diamond Harbour Road,
South 24 Parganas, 743368

Sub: Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour Women's University.

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject tender no. E-NIT/ZOOLAB/27/DHWU/2019 dated 19.10.2019, do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipments and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit: We have enclosed EMD in the form of Demand draft for a sum of Rs. 30000/- (DD no. _____ dated _____ drawn on _____).
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (10%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that DHWU reserves the right to accept in full/part or reject any or all the bids received without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, thisday of2019

Thanking you, we remain,

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
.....
Signature

.....
.....
Name in full

.....
.....
Designation

.....
.....
Company Stamp

SECTION – F

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

1. EVALUATION PROCEDURE

- The Eligibility Criteria (Section - B) will be evaluated by Tender Committee and those qualify will be considered for further evaluation.
- The Tender Committee shall verify the Technical Specification (Technical Specification with Compliance Statement, Section – J) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- After qualifying in Technical Specification, qualified bidders will only be considered for Financial Bid evaluation.

2. FINAL EVALUATION

Financial Proposal of the bidders qualifying in the evaluation of Technical specification will be evaluated. The bidder who has qualified in the Technical Specification evaluation and returns with lowest quote (L1) in financial bid would normally be awarded the contract subject to Post Qualification.

3. AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the lowest quoted bidder. A negative determination will result in rejection of bidder's bid, in which event the DHWU will proceed to the next lowest evaluated bidder to make a similar determination of that bidder's capability to perform satisfactorily. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

4. POST QUALIFICATION

The determination will evaluate the Bidder's financial, technical, design, integration, customization, production, management and support capabilities and will be based on an examination of the documentary evidence of the Bidder's qualification, as well as other information DHWU deems necessary and appropriate. This determination may include visits or interviews with the Bidder's client's reference in its bid, site inspection, and any other measures.

SECTION – G

GUIDANCE FOR E-TENDERING

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

- **Registration of Bidder:**
Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.
- **Digital Signature Certificate (DSC):**
Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.
- The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.
- **Participation in more than one work:**
A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.
- **Submission of Tenders:**
Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

The proposal should contain scanned copies of the following in two covers (folders).

Techno Commercial Cover:

Technical Document1 (scanned & join in pdf format then upload)

1. Copy of Demand Draft of Earnest Money Deposit (EMD)

Technical Document2 (scanned & join in pdf format then upload)

1. N I T Declaration duly stamped & signed in letter head, Section - Q
2. Bid Form as per format (Section – E)

Technical Compliance (scanned & joins in pdf format then upload)

1. Technical Specification With Compliance Statement (Section – I)
2. Manufacturer Authorisation Form (Section – M)

Financial Cover:

BOQ will be downloaded and same will be uploaded with quoted rates. While uploading BOQ file name shall remain unchanged. Absence of this document shall lead to summary rejection of the bid.

NON-STATUTARY COVER (MY SPACE) CONTAIN FOLLOWING DOCUMENT:

(In each folder, scanned coy will be uploaded with single file having multiple pages)

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"> · GST Registration Certificate · PAN · Trade License · Document as per Clause no. 2 of Section – B
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> · Document as per Clause – 1 of Section – B
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> · Company Profile (Not more than 3 pages)
C	CREDENTIAL	CREDENTIAL 1	Order copies as per Clause no. 4 of Section – B
		CREDENTIAL 2	<ul style="list-style-type: none"> · Product brochure · Other documents, if any
D	DECLARATION	DECLARATION 1	List of Clients as per format (Section – O)
		DECLARATION 2	Financial Capability of Bidder as per format (Section – K)
		DECLARATION 3	Bidder's Details as per format (Section – L)
		DECLARATION 4	Details of Order Executed as per format (Section – J)
F	FINANCIAL INFO	P/L & BALANCE SHEET 2014-2015	P/L & BALANCE SHEET 2015-2016
		P/L & BALANCE SHEET 2015-2016	P/L & BALANCE SHEET 2016-2017
		P/L & BALANCE SHEET 2016-2017	P/L & BALANCE SHEET 2017-2018

SECTION-H

BILL OF MATERIAL

Sl. No.	Item Description	Qty	Unit
1	LAMINAR FLOW CLEAN AIR WORK STATION (VERTICAL)	1	Nos.
2	Type A2 Biological Safety Cabinet	1	Nos.
3	PROGRAMMABLE LOW/HIGH TEMP. SHAKER INCUBATOR	1	Nos.
4	CO ₂ incubator for cell culture	1	Nos.
5	ULTRALOW FREEZER (-20°C)	1	Nos.
6	UPRIGHT SHOWCASE COOLER (4°C)	1	Nos.
7	Ultra Low Temperature Freezer -86	1	Nos.
8	UV VISIBLE DOUBLE BEAM SPECTROPHOTOMETER	1	Nos.
9	Elisa plate Reader	1	Nos.
10	Electronic Balance	1	Nos.
11	pH METER with electrode	1	Nos.
12	Soxhlet Apparatus	1	Nos.
13	UV-Vis spectrophotometer	1	Nos.
14	MICROTOME	1	Nos.
15	Real Time PCR	1	Nos.
16	Gradient PCR	1	Nos.
17	Chemidoc System with Multiplex Capability	1	Nos.
18	Midi Horizontal Electrophoresis system	1	Nos.
19	Vertical Electrophoresis Set Up Mini Protein Tetra Gel, Transfer Module, Power Pack Mini gel Specification- for 8 X 7 cm gels	1	Nos.
20	Inverted Fluorescent Cell Imager with touch screen	1	Nos.
21	Inverted phase contrast microscope with camera attachment	1	Nos.
22	Binocular upright brightfield microscope	15	Nos.
23	Monocular brightfield microscope	20	Nos.
24	Dissecting stereo-zoom microscope	5	Nos.
25	Inverted Fluorescence Microscope	1	Nos.
26	VARIABLE VOLUME PIPETTES	3	Sets
27	Ultrasonic probe sonicator	1	Nos.
28	Ice Flaker	1	Nos.
29	Upright Advance trinocular phase contrast microscope with camera and imaging software with computer	1	Nos.
30	Ultra Pure Water Purification System	1	Nos.
31	ROTARY VACUUM EVAPORATOR	1	Nos.
32	Medium capacity refrigerated high speed centrifuge	1	Nos.
33	Thermal Shaker	1	Nos.
34	Gel Rocker With Electronic Timer	1	Nos.
35	Magnetic stirrer with hot plate	1	Nos.

Bill of quantity may change at the time of ordering of Purchase Order. Detailed Technical Specifications are given in Section - I

SECTION - I

TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT

(Tender No. E-NIT/ZOOLAB/27/DHWU/2019)

1. Specification of Instruments:

Sl. No.	Items	Specification details (Complete Exptal. Set)	Unit / Qty	Specification (Quoted / Applicable- by the bidder)	Complied (Yes / No)
1.	LAMINAR FLOW CLEAN	Size: 4' x 2' x 2' * Cabinet made from Mild steel * Pre-Filter Assemblage for Multi-Dispose	1		

	<p style="text-align: center;">AIR WORK STATION (VERTICAL)</p>	<p>particle predominantly in the size range of 5- 20 microns</p> <ul style="list-style-type: none"> * HEPA Filter - 0.3 microns * Sealed white light * UV- light * Stainless Steel Work table * Front Door * Gas cock * Anti Vibration Leveling leg / Castor wheels * Extra power outlet switch * Size : 4' x 2' x 2' * HEPA Protecting grill * Motor winding Protector * Hour meter for monitoring UV life * Magnahelic gauge instead of manometer <p>Complete with door.</p> <p>AIR FLOW:</p> <ul style="list-style-type: none"> * Designed for 0.45m/s to 0.65 m/s when measure across the entire filters space during the rated life cycle of filters. <p>PRE-FILTERS:</p> <ul style="list-style-type: none"> * Size : 800 x 400x 50 - 1 no (4 feet unit) * Type : Flange type * Media : Synthetic, Non-oven Polyester fibre, Washable type * Casing :M.S.Powder coated * Gasket : Neoprene * Retention : 5 Micron * Efficiency : 95% * Pressure drop : 6 to 8 mm <p>HEPA FILTER :-</p> <ul style="list-style-type: none"> * Size : 1200 x 610 x 75 mm - 1 no (4 feet unit) * Type : Box type, seperator type * Media : Ultra clean glass fibre paper-imported * Casing :M.S.Powder coated * Gasket : Neoprene * Retention : 0.3 Micron * Efficiency : 99.97% * Pressure drop : 25 mm of W.c. <p>IMPELLERS:</p> <p>High performance noise abated statically and dynamically balanced.</p> <ul style="list-style-type: none"> * Size: 10" x 8" twin impeller <p>MOTOR -BLOWERS :-</p> <ul style="list-style-type: none"> * Volts : 230 V * Hz : 50 * HP : 1/3 (4 - feet unit) * Amps : 3.5 * Watts : 250 * RPM : 1440 * Capacitor : 10 mfd * Max. temp : 80 Degree C * Weight : 4 kgs * Bearings : 2 Nos Ball Bearings, Both side shielded Lubricated for life * Over load protector : fitted * Qty : 1 no each <p>PRESSURE GAUGE :</p> <ul style="list-style-type: none"> * Housing : Die casting aluminium case and bezel, with acrylic cover * Accuracy : ± 2 % of full scale * Pressure limits : 15 psi * Temperature : 20 to 140 Degree F * Size : 4 " dia * Weight : 510 gram * Range : 0-25 mm <p>HOUR METER :</p> <ul style="list-style-type: none"> * Range : 9999 hrs * Weight : 75 gram * Size : 2" x 2" <p>CLEANLINESS LEVEL : Class 100</p> <p>ILLUMINATION: Fluorescent tubes</p> <p>NOISE LEVEL : 65 ± 5 db</p> <p>VIBRATION LEVEL : less than 2.5 um (0.0001)</p> <p>POWER SUPPLY : 230 v AC, 50Hz,</p> <p>STANDARDS:-</p> <ul style="list-style-type: none"> * US FED STD 209 E * ISO 14644-1 * IEST- RP-CC-002-2 * BSI 			
2.	Type A2 Biological Safety	1. The Bio safety cabinet should be Type A2 in which 70% Air should be	1		

	Cabinet	<p>re-circulated and 30% of the air should be exhausted</p> <p>2. The Bio Safety Cabinet must include two DC motors. High power consuming AC motors should not be used.</p> <p>3. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.</p> <p>4. In order to preserve safety to the user and the environment, the exhaust blower on the cabinet must continue operating when the supply blower stops working. If the exhaust blower should fail, the supply filter will also be turned off.</p> <p>5. In order to ensure consistent and reliable down flow velocity across the supply HEPA filter over the life of the cabinet, the cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow. The pressure sensor must be encased in order to protect the sensor from temperature, humidity and other environmental phenomena that can impact the sensor's performance.</p> <p>6. The microprocessor must display the inflow and down flow air velocities in real-time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions.</p> <p>7. The front window must be a 10" sash opening and be made of laminated safety glass to ensure containment of potentially hazardous samples in the case of accidental glass breakage.</p> <p>8. All interior and exterior parts must be painted or smooth to ensure no risk of cuts to users or maintenance personnel.</p> <p>10. The cabinet noise level must be less than 63 dB(A) for a 4 foot cabinet as measured in a sound proof room 12 inches in front of the cabinet and 15 inches above the work surface. Lower noise levels promote more comfortable and safer working habits of the user.</p> <p>11. The Biosafety Cabinet should have microprocessor controller and same must be located on a slanted front panel so it is easy to see and reach from a seated working position in front of the cabinet.</p> <p>12. The interior of the front window must be accessible for cleaning without requiring the user remove or support the window.</p> <p>14. The biological safety cabinet must be capable of achieving current state-of-the-art in energy efficiency. A biological safety cabinet with lights on and fan at operating speed should consume less than 200 watts for a nominal four foot width and have a reduced energy mode for non-operational maintenance on</p>			
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		<p>containment in the work area.</p> <p>15. The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.</p> <p>16. In order to provide maximum effectiveness, efficiency and safety to laboratory Personnel, UV light must be programmable to allow for specific exposure times from 0 to 24 hours. The automatic shut off feature on the UV light saves money on replacement of the bulbs.</p> <p>17. The Cabinet should have provision to fit taps for Vacuum, Water and Non Combustible Gas.</p> <p>18. The Bio safety Cabinet should be NSF certified with listing on NSF website. Each Cabinet should have individual sticker of NSF Certification along CE certificate.</p> <p>19. The Bio safety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 µm particle size.</p> <p>20. Approximate Dimension Exterior 1500 H x 1300 W x 800 D (in mm); Interior 800 H x 1200 W x 500 D (in mm) or more for easy operation.</p> <p>21. Ventilation System Exhaust and Inflow air volume approx 300-350 CFM</p> <p>22. Heat Emissions at 25°C should be approx 0.2 KW or lesser.</p> <p>23. The cabinet Should be provided with Microprocessor controller and large LED display for inflow and Down flow air velocity and hours of operation, Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.</p> <p>24. The BSC must incorporate an LED Indicator to indicate filter loading and should provide visual and audible alarm to indicate excessive HEPA filters loading which can result in unsafe airflows deviation from the NSF recommended inflow and down flows air velocity values measured in meters per second or foot per minute.</p> <p>25. The cabinet should be provided with fixed / adjustable Height Stand, UV Light and one set of detachable arms rest and one / two electrical outlet.</p> <p>26. The Drain Pan of the BSC should be made of Stainless Steel. The drain pan should not be painted or power coated.</p> <p>27. The Bio safety cabinet should have dual side wall with negatively pressurized interstitial space. Bio Safety Cabinet with single glass side walls should not be quoted.</p> <p>28. The System should have 3 years of warranty & the bidder must have own service center based at eastern part of India.</p> <p><i>Include Voltage Stabilizer: Suitable voltage stabilizer with high voltage, low voltage cut-off, with auto reset & delay timer & spike eliminator. Output voltage:</i></p>			
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3.	PROGRAMMA BLE LOW/HIGH TEMP. SHAKER INCUBATOR	<p>Incubator:</p> <p>Specifications Air circulation : Forced air convection Temp. control system : Inverter frequency control Temp. control range : -10°C to 60°C, Accuracy : ±0.1°C ~0.2°C Chamber capacity : 150L, Chamber dimension : 600W x 500D x 500H mm Program function : Max. 8 steps, 24 hour cycling operation , Auto start, auto stop, Auto start-stop, temp. gradient control Shelf pitch & step : 30mm, 13steps</p> <p>MULTIFUNCTIONAL SHAKER Shaking frequency : 25 to 250rpm Shaking motion : Orbital & Reciprocal mode Shaking Speed (rpm) indicator : Digital Dimension (mm) [Approx] : 460W X 380D X 150H Shaking Motor : DC brushless motor</p> <p>Universal tray with spring mesh capable of holding: Test tubes Ø 16x120 pcs, flask 50mlx20 pcs, 100mlx10 pcs, 200mlx9 pcs, 500mlx4 pcs, 1Lx2 pcs, 2Lx1 pcs 1set Note: The equipment should be provided with all necessary accessories and spare parts from same manufacturer/brand.</p>	1		
4.	CO ₂ incubator for cell culture	<ul style="list-style-type: none"> • Capacity 170 L • With Display • High temperature disinfection (HTD) 140 °C standard • Sealed inner glass doors • Temperature control increment ±0.1 °C • Temperature stability at 37 °C ±0.1 °C • Temperature range Ambient +5 °C to 50 °C • Temperature uniformity ±0.3 °C • CO₂ range 0.1 – 20 % • CO₂ control increment ±0.1 % • CO₂ uniformity ±0.1 % • Number of shelves – minimum 3 shelves • Power supply 220 – 240 V, 50 – 60 Hz • Should have CE certification <p>Should be supplied with a proper voltage stabilizer</p>	1		
5.	ULTRALOW FREEZER (- 20°C)	<ul style="list-style-type: none"> • Specifications : • Upright Solid Door Freezer • Capacity (in litres) : 140 litres minimum • Temp. Range** : -18°C ~ -22°C • Lock : yes • Defrost : Manual • Rated Load, Wattage : 125 • No. of Shelves / Drawers : 5 <p>No. of Lids/Doors : 1 or 2</p>	1		
6.	UPRIGHT SHOWCASE	<p>Description : Capacity (litres) : 230 litres minimum</p>	1		

		Temp. Range : 0 °c to 10° c Wheels : Yes Lock : Yes Rated Load Wattage : 220 No. of Baskets /shelves : 4 No. of Lids doors : 1			
7.	COOLER (4°C) Ultra Low Temperature Freezer (-86 °C)	<ul style="list-style-type: none"> • CONSTRUCTION FEATURES • Unit must include: • Must include NON-CFC REFRIGERANTS. • Minimum Capacity- 485 Lit. Upright freezer with 2 Numbers of 1100 Watt / 2 X 1.4 HP or more hermetic compressors to achieve & maintain a temperature of -86°C • 1 Minute door opening recovery to -75 °C should be with 25 minute in an ambient temperature of 20 °C • Comfortable latch and handle for ergonomic handling and one hand operation with padlock capability • Durable interior with Four (4) Inner doors. • Down-feed evaporator • Adjustable solid Stainless Steel shelves • Triple -sealing silicone door gasket • 5” non-CFC foamed-in-place polyurethane insulation; 4.5” in door • Minimum two 10” tubeaxial fans to provide maximum cooling of the compressor housing. • Heavy-duty dual wheel swivel locking casters. • Automatic voltage compensator responds to high and low voltages with Buck/Boost System. • Powder coat paint for a durable surface • Service valves provided to allow easy recovery of refrigerants and field servicing. • Front to back airflow with Removable, cleanable air filter • Hinged grill swings out for easy access to filter and battery • A vacuum relief port allows easy re-entry after door openings • The microprocessor controller must monitor in one degree C increments, with digital display. • Eye Level Information center for At-a-Glance Monitoring • ohm platinum RTD Temperature probe must be positioned to insure the alarm sounds before the stored product can be affected by a rise in temperature. • Battery back-up for the alarm monitoring system • Both visual and audible alarms must alert operator of over and under temperature, power fail, door ajar, and low battery conditions. • Should provide a warranty of 2 years on the total system & 4 years or more on compressor. • Should have a CE certification & manufactured by an ISO- 	1		

		<p>9001 certified company.</p> <ul style="list-style-type: none"> • 4" open x 12" long heavy duty hinge for ensuring positive closure and Un-interruptive service. • Should be supplied with a proper voltage stabilizer 			
8.	UV VISIBLE DOUBLE BEAM SPECTROPHOTOMETER	<p>Microprocessor based UV-VIS Spectrophotometer with high resolution touchscreen display, for operation on 220V / 50Hz.</p> <ul style="list-style-type: none"> • Stand-alone operation or complete control through PC with PC software supplied as standard • True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light • Wide wavelength range of 1,100 nm to 190 nm • High resolution 1 nm spectral bandwidth over entire wavelength range • Wavelength setting and display in steps of 0.1nm • Wavelength accuracy of $\pm 0.1\text{nm}$ for D₂ spectral line • Wavelength reproducibility of $\pm 0.1\text{nm}$ • Wavelength Slew rate: $\geq 14,500\text{ nm/min}$ • Variable wavelength scanning speed: $\geq 3,000\text{ nm/min}$ to 2 nm/min 29,000 nm/min when survey scanning • Ultra low stray light of $<0.02\%T$ at 220nm with NaI filter • Wide Photometric range of -4 to +4 Abs and 0 to 400 %T • High Photometric Accuracy of $\pm 0.002\text{ Abs}$ at 0.5 Abs • High Photometric Repeatability of Less than $\pm 0.0002\text{ Abs}$ at 0.5 Abs • Baseline stability: $< 0.0003\text{ Abs/Hr}$ (700 nm, one hour after light source turned ON) • Ultra low Photometric noise of $<0.00005\text{ Abs}$ (700 nm) • Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover • High sensitivity matched pair Silicon Photodiode detector • 4 USB ports or more for high speed PC and printer connectivity, data storage and transfer through USB pen drive • Guaranteed compliance with all Pharmacopoeia requirements • Built in validation program, diagnostic and security functions • All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein • Quantitation in stand alone and PC mode. Additionally Multi-Component measurement available in stand-alone mode. • Large sample compartment compatible with wide range of accessories. • Must supply one pair of 10mm 			

		<p>path length Quartz Cuvettes of 3.5 ml volume as a standard supply</p> <ul style="list-style-type: none"> • Branded PC should be provided along with your quote. <p>Should be supplied with online 1kV UPS.</p>			
9.	Elisa plate Reader	<ul style="list-style-type: none"> • Flexible configurations with ability to read flat-, U-, or V-bottom microplates or 8- or 12-well strip plates • Automatic calibration before each reading • Variable-speed plate-shaking capability • Easy-access 8-position filter wheel with 6 standard filters [415, 450, 490, 595, 655, and 750 nm] • USB2 port for external computer control • Data and protocol presentation on LCD display • Onboard data storage of protocols, standard curves, and graphs • Self-diagnostic capabilities to detect lamp burnout at startup • Motorized door for plate loading • Wavelength range 400–750 nm • Photometric range 0.0–3.5 OD • Linearity ≤1.0% from 0.0–2.0 OD; ≤2.0% from 0.0–3.0 OD • Accuracy ±1.0% or 0.010 from 0.000–3.000 OD at • Precision 1.0% or 0.005 OD from 0.0–2.0 OD; 2.0–3.0 OD • Resolution 0.001 OD • Filter wheel capacity 8 Wheel with 6 preinstalled filters with 415, 450, 490, 595, 655, and 750 nm • Plate shaking 3 speeds: low, mid, high; duration: 0–999 sec • Read time 6 sec at single wavelength, • Data output - Onboard graphical thermal 	1		

		<p>printer and</p> <ul style="list-style-type: none"> Data storage <p>Calendar/clock function;</p> <p>64 assay Protocols</p> <p>Software specification:</p> <p>Microplate Manager for High-Throughput Analysis and Reporting</p> <ul style="list-style-type: none"> Running of 12 separate assays on the same plate Optional automatic printing upon completion of measurement Multiple-plate processing with automated data export <ul style="list-style-type: none"> Custom reporting function that provides one-button screening for predefined assays, such as for TSE Comprehensive Curve-Fit Analyses Linear, quadratic, cubic, Log-Log, Zero-Intercept Linear, Semi-Log, Logit Log, Point to Point or logistic (4-parameter, 5-parameter) fit types <ul style="list-style-type: none"> Linear or logarithmic automatic axis scaling External standard curves for multiple plates Curve-fit graph overlay for comparison <p>Performance verification parameters include:</p> <ul style="list-style-type: none"> Accuracy Precision Linearity Spectral blocking <p>Complex Kinetic Analyses</p> <ul style="list-style-type: none"> Choice of number of calculation points for Vmax Simple velocity calculation Negative or positive slope calculation Absorbance limit selection Kinetic correlation coefficient display and calculation for fit (r value) Real-time data acquisition display and ability to zoom in on a well Automatic scaling and real-time monitoring <p>•Should have CE certification</p>			
10.	Electronic Balance	<p>Maximum capacity 220 g</p> <p>Weighing platform dimensions 90 mm</p> <p>Readability 0.1 mg</p> <p>Repeatability 0.1 mg</p> <p>Linearity 0.2 mg</p> <p>Settling time 2s</p> <p>Sensitivity temperature drifts 2.0 ppm/°C</p> <p>Weight of balance 4.7 kg (ME) / 4.5 kg (ME-E)</p> <p>Selection of non-critical materials – PVC free, mercury-free</p> <p>Solid metal base Reinforced body</p> <p>Overload protection up to 100kg</p>	1		
11.	pH METER with electrode	<p>Technical Specifications</p> <p>Specifications</p> <p>Measuring range : -2.00 - 16.00 pH , -2000 - 2000 mv, -5 - 105 °C (23 -</p>	1		

		<p>221 °F) Resolution : 0.01/0.1 pH , 1 mV, 0.1 °C, Error limits : ± 0.01 pH, ± 1 mV, 0.3 °C Temperature Compensation : ATC & MTC Automatic and manual endpoint recording : Yes Acoustic endpoint signal : Yes Visual endpoint signal : Yes Calibration : max. 5 point , Linear/segmented, 4 predefined buffer groups Data Storage Memory size : 200 measurements, current calibration Connectors Sensor inputs : BNC, Cinch, NTC 30 k? RS232 interface : Yes USB interface : Yes Reference input : Yes General Power supply : 100...240 V / 50...60 Hz / 12 V DC Display : 4.3" segmented LCD Housing : ABS</p>			
12	Soxhlet Apparatus	<p>Outer casing is made of aluminium sheet finish with powder coating paint. Mental type cover with glass cloth well insulated with fiberglasswool. The heating element is made of heating element combine with glass cloth fitted in the body. Energy controlled with fitted main and load indicating . Electrically 220 volts A.C. operated. With clamps and stand fitted with it</p>	1		
13	UV-Vis spectrophotometer for small sample volume	<p>capable of directly measuring from 1.0 – 2.0 µl sample volume Full spectrum micro-volume UV-Vis spectrophotometer with190nm-850nm wavelength measurement range Sample volume 1.0 - 2.0 µL- direct solution measurement without need for consumables such as cuvettes or slides. Auto-range pathlength from 0.03mm to 1.0mm for optimal data quality for every measurement without need for dilution. 2 to 27500 ng/uL dsDNA)</p> <ul style="list-style-type: none"> • Contaminant identification with corrected concentration • Embedded technical support • Column integrity sensor <p>Ergonomic design with tilting and sliding screen accommodates both left and right handed users Pre-programmed methods for: ssDNA, dsDNA, RNA, oligoDNA, oligoRNA, microarray (fluorescently labeled nucleic acid), Protein (A280), Protein A205, Protein colorimetric (Bradford, BCA, Lowry and Pierce 660), Proteins & Labels (labeled proteins), Kinetics, Custom Methods, UV-Vis</p> <p>Should have CE certification</p>	1		
14	MICROTOME	<ul style="list-style-type: none"> • Operation : Semi-Automatic 	1		

		<ul style="list-style-type: none"> • Section thickness range: 0.5-100µm • Setting value Increments: 0.5-5µm in 0.5µm, 5-20µm in 1µm, 20-60µm in 5µm, 60-100µm in 10µm • Disposable blade: Low/High Profile • Minimum setting value: 0.5µm • Trimming thickness setting range: 1-600µm • Horizontal feed: 28mm • Vertical Specimen Stroke: 60mm • Specimen retraction: 5-100µm in 5µm • Lockable hand wheel: Yes • Microprocessor based control system: Yes • Razor holder for knife • Safety alarm: Yes 			
15	Real Time PCR	<ul style="list-style-type: none"> • Real time PCR with block of 96 x 0.2 ml tubes or plate to Run typical 0.2ml tubes, strips, and plates. • Should have a gradient capacity with Dynamic ramping. • Should have a Detection of 2 or more different fluorescent reporters in the same tube without the use of ROX. • Should be capable of Detecting FAM/Sybr Green, VIC, HEX, TET, CAL Fluor Gold 540 or more. • The system should have a ramp rate of: 5°C per sec or better. • Should have 6 Peltier Cooling & Heating for uniform temp control • Should have one channel dedicated for FRET experiments without the need of a service engineer to change the filters. • Should have a mass reduced block to offer better average ramp rate and 10 sec of settling time. • Should have an Excitation – Emission range of 450-580nm • No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different flourophores without the need of addition of any internal reference dye, • Should have 3 filtered LEDs as an excitation source with 3 filtered Photodiodes for detection. • The system should be capable of networking with multiple systems in the future. • Should have a Dynamic 	1		

		<p>range of 9 orders or more.</p> <ul style="list-style-type: none"> • The system should be an Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed. • Temperature range 0– 100 °C with accuracy of ± 0.2 °C and uniformity of ± 0.4 °C within 10 sec of arrival at 90 °C • Sample volume should be 1-50μl or better. • Should have built in data analysis modules with advance features like well highlighting, QC flags and custom data view assist with quick analysis. • Should be capable to perform Automatic allelic discrimination by end point fluorescence or threshold cycle. • Should be capable to perform Gene expression analysis by relative quantity (ΔCt) or normalized expression ($\Delta\Delta$Ct). • End point analysis for upto 2 fluorophores • Should have mode for Melt curve analysis • Comparison of upto 5000 Ct values from different data files should be possible • System should be compatible for HRM applications. • Should have the feature of Email notification with data file after run completion. • Software should have express load feature which allows entry of data after experiment. • Should be licensed for Research & IVD applications. • System should be compliant with the MIQE Guidelines • System should be provided with a license copy of qbase plus software from Biogazelle which is RDML compliant, and helps in Normalization, to access post –PCR Quality, helps in inter run calibration, geNorm, helps in bio-statistical analysis, CNV Analysis and MIQE Compliancy. • Software should be capable to import and analyze data from any real time PCR platform. • System should be supplied with a suitable computer & UPS 			
16	Gradient PCR	<ul style="list-style-type: none"> • Should have a sample 	1		

		<p>capacity of 96x0.2ml tubes, 0.2ml tube strips or universal or standard 1x96-well plate of 8x12 format with six or more Peltier heating and cooling.</p> <ul style="list-style-type: none"> • System which are not capable of taking plates will not be considered. • Should have true gradient capability with Dynamic ramping technology , other technologies apart from gradient will not be considered. • Should have the feature of dynamic ramping with identical hold times for all the 8 rows of gradient. • Should have a temperature differential range of 1-25degC across the rows. • Should have intuitive 5.7” (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming. • The touch screen should be responsive for both gloved and ungloved fingers. • Should be capable of running reaction volumes from 1-100ul. • Should have a maximum ramp rate of 4 degC/second. • Should have a temperature range of 4-100 deg C • Should have a gradient range of 30-100 deg C • Should have a temperature accuracy and uniformity of ± 0.5 deg C • Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files. • Should have block and calculated temperature control modes. • The software should be capable of exporting Run logs and system error logs • Should have quick boot up time of not more than 1 min. • Should be quiet in operation. • System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc. • Should have the feature of “Instant Incubation” to keep samples at constant temp for ligation and restriction digests. • Should have power save mode. • Should be compatible with all kind of plastic 			
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		<p>consumables and reagents specially reusable sealing Mats.</p> <ul style="list-style-type: none"> • System should be supplied with a suitable computer & UPS 			
17	Chemidoc System with Multiplex Capability	<ol style="list-style-type: none"> 1. System with true 16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels. 2. Individual pixel size should be at least 4.54 x 4.54 μm or bigger. 3. Camera resolution should be more than 6 megapixels. 4. The system should have dynamic flat fielding technology. 5. The instrument should provide excellent quantitative data from a single blot having very intense and weak signals in a single image; to facilitate the same instrument's dynamic range should be at least 4 orders of magnitude for all applications (please support with relevant technical data) 6. Instrument should provide highest level for sensitivity and hence must have minimal dark current with maximum limit of 0.002 e/p/s and low read noise of not more than 6e-. 7. The system should be supply with a 10% strain free solution. 8. The camera should have peltier based cooling. 9. Quantum efficiency at 425 nm should be 70% or more, this will ensure that the instrument is highly sensitive to very faint signals from chemiluminescent blots. 10. Motorized zoom fast lens with f/0.95 or better should be provided. 11. Light sources/excitation should include – Trans-UV (302 nm), Epi White, trans-white (requires White sample tray). 12. Instrument should have provision for protective UV shield for use during band excision with safety interlocks to avoid un-intentional UV exposure to the user. 13. Minimum imaging area for white light and chemiluminescence application should be 20.5 cm x 16.5 cm. 14. Sample drawers with fixed stage. 15. Should provide image acquisition with automatic zoom, focus, and iris adjustment without the need for users to focus or adjust aperture settings. 16. The instrument should have onboard attached touchscreen of 12" or bigger with multi-touch capability (2 points) enabling users to easily interact with the touchscreen to acquire, assess and export images. Touchscreen actions should include – tap, double tap, pan, scroll to zoom. 17. Instrument should have multiple input/output ports with minimum 3 USB ports allowing users to connect USB devices (like keyboard, mouse, data storage, and printer). One USB port should be provided on the front panel for easy export to USB. Also, system should have one Ethernet port so that users can transfer image files 	1		

		<p>via Ethernet to networked computers.</p> <p>18. Factory calibrated flat fielding for ensuring uniform data for all applications. System should be calibrated for image area, focus, and flat field correction at the factory and files stored in the integrated PC.</p> <p>19. Users should be able lock the system to prevent others from interrupting/changing the settings</p> <p>20. The system should have the below illumination sources :</p> <p>Trans-UV, 302 nm (standard)</p> <p>Epi-white (standard)</p> <p>Trans-white (standard)</p> <p>Trans-blue, 450-490 nm ((standard)</p> <p>Epi-blue, 460-490 nm excitation (standard)</p> <p>Epi-green, 520-545 nm excitation (standard)</p> <p>Epi-red, 625-650 nm excitation (standard)</p> <p>Epi-far red, 650-675 nm excitation (standard)</p> <p>Epi-near IR, 755-777 nm excitation (standard)</p> <p>21. System should be supplied with a stain-free acrylamide solution kit to enable stain-free imaging of gels and blots.</p> <p>22. The system should have a fixed sample stage.</p> <p>23. The system should provide flexibility in selecting the pixel binning options, should be possible to select minimally 2x2, 4x4 and 8x8 binning.</p> <p>24. At least five prior installation report of the exact same model of the instrument in different universities/ institutes/ companies in India is required (should be provided with proper documentation from corresponding authority).</p> <p>25. Should be supplied with a suitable Online UPS</p>			
18	Midi Horizontal Electrophoresis system	<ol style="list-style-type: none"> 1. A midi horizontal electrophoresis system should be able to run the gel size of 15 x 7 cm, and 15 X 10 cm. The system should be supplied with 15 X 10 gel trays with Gel tank with safety lid. 2. The supplied gel trays should be UV proof and the trays can be directly kept on the UV Transilluminator and should have a integrated fluorescent ruler in the tray. The ruler should get illuminated on exposure to UV Light for easy and safe calculation of the band movements. 3. A system should include tape free gel casting module for leak free operations. 4. A system should include two 1.5mm combs, 15- & 20-well fixed height combs each. 5. A system should have the option for adjustable height combs with comb holders. 	1		

		<ol style="list-style-type: none"> 6. Migration rate of Bromophenol Blue dye should be similar to 4.5cm/hr(at 75 V). 7. A system should have a lid with the safety banana Jacks, which breaks the circuit when the lid is running. 8. Should be provided with a bubble leveler for even gel casting. 9. The gel caster should have 3 height adjustable screws for balancing the uneven platforms for uniform gel casting. 10. The electrodes should be color coded to remove the confusion of wrong orientation. 11. The Lid should have a safety option so that the lid cannot be closed in the wrong orientation. 12. The Lid should have integrated cables to connect it to the power pack directly. 			
19	Vertical Electrophoresis Set Up Mini Protein Tetra Gel, Transfer Module, Power Pack Mini gel Specification- for 8 X 7 cm gels	<ul style="list-style-type: none"> • High throughput- Capable of running up to 4 mini gel (8 X 7 Cm) simultaneously. • Should be supplied with the capability of running two gels . • Flexible- Capable of running hand cast as well as precast gel. • Running and casting module should be different • Interchangeable module- Should be capable of using blotting module to do western blotting. • Leak proof, tape free and easy assembly. • Patented Flap wing for leak proof assembly. • Permanently bonded spacer plates for leak proof, without agarose sealing & taping casting of gels. • Casting frame with simple cam closure mechanism that gives precision alignment on any flat surface. • Side by side casting stands that allow access to both gels simultaneously. • colored sample loading guides to prevent the skipping or repeated loading lanes. • Modular design can be used do western blotting by using the blotting module only. • Should able to run gels in 15-20 mins. • Should come with buffer dam. • Blotting Module: • It should be compatible 	1		

		<p>with small SDS page Unit.</p> <ul style="list-style-type: none"> • It should be capable of doing the western blotting of the mini gels. • It can run 2 blots simultaneously • Color coded cassettes for proper orientation of gels and membranes • System is able to transfer two mini gels. • Ice free cooling unit for proper temperature control for western blotting • Modular design can be used do electrophoresis by using the electrode assembly and caster only. <p>Power Supply Basic- Programmable power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display. The output range should be 10-300 V , 0.4-400 mA, 1-75 W . Constant voltage, current or Power with Automatic crossover Memory storage: 9 programs , 9 steps, Timer Control : 99 hr, 59 min Automatic Power up after Power failure, Safety features: No-load detection; sudden load change detection</p>			
20	Inverted Fluorescent Cell Imager with touch screen	<p>Four imaging channels - Brightfield and three fluorescent channels Blue channel Ex: 355/40 nm, Em: 433/36 nm Green channel Ex: 480/17 nm, Em: 517/23 nm Red channel Ex: 556/20 nm, Em: 615/61 nm Illumination light sources UV LED for Blue channel Blue LED for Green channel Green LED for Red channel Bright field channel - green LED for image contrast optimization Touch screen: minimum 10 inchcolor (26 cm) LCD monitor, touch screen with anti-glare and anti-finger print treatment, minimum 1280x768 pixels image resolution, 80-180° angle tilt range Focusing mechanism Coarse and fine, manual adjustment Image capture Monochrome camera, 12 bit CMOS, 5 megapixels Image file types JPEG, TIFF, RAW Image merge Brightfield and 3 fluorescent images can be overlaid Data storage 2000 images, 16GB internal memory Data export Yes, 2 USB ports Objective 20X Magnification Display magnification: 175X, Digital zoom magnification: 700X Numerical aperture 0.40 FOV 0.70mm² Motorized stage 6mm travel in X, Y direction, touch screen control of travel speed and direction Compatible consumables Flasks (T25, T75, T225), Multi-well plates (6, 12, 24, 48, 96, 384 wells),</p>	1		

		<p>Dishes (35mm, 60mm, 100mm), Chamber slide, Glass microscopy slide</p> <p>On-board software</p> <p>Stand-alone system, Android operating system; PC is not required for operation</p>			
21	Inverted phase contrast microscope with camera attachment	<p>Microscope Frame: Inverted microscope frame with infinity optical path system. Fixed trinocular inclined photo tube, 45° angle with FOV 22 mm or better. Observation tube should be 360° rotatable and butterfly design to ensure best ergonomics. In-built Hi power white LED light source for Trans illumination (bright field / phase contrast). Coaxial Coarse and fine focus knob on both side of the frame. Optical light path selection between camera port and eye port 100:0, 0:100. Power on/ off button should be present on the front panel of the microscope.</p> <p>Eye piece: Pair of 10X eyepiece FOV 22mm, dioptre adjustment facility on both eyes.</p> <p>Nosepiece: Minimum 4 or more position revolving nosepiece.</p> <p>Mechanical Stage & Slide Holder: Plain stage with dimension of 252mm X 200mm or better. Mechanical XY stage, Universal slide holder, Terasaki plate holder.</p> <p>Condenser: LWD condenser, NA 0.3, WD 72mm, maximum WD up to 190mm or more</p> <p>Objective: Objectives: Integrated phase contrast (IPC) objectives</p> <p>Plan Achromat 4x, LWD Plan Achromat 10x (NA 0.25), IPC</p> <p>LWD Plan Achromat 20x (NA 0.4, WD 3.2mm) IPC</p> <p>LWD Plan Achromat 40x (NA 0.55, WD 2.2mm) IPC</p> <p>Camera: 5 MP high quality Color CCD / CMOS camera for bright field and phase contrast application and image analysis. Image sensor size: 1/2.5 inch or better, Pixel size: 2.2 x 2.2 μm, frame rate 15 fps @ full resolution. c-mount adapter for camera.</p> <p>Image Capture & Analysis Software</p> <p>Imaging software with the following feature:</p> <p>Snap Shot, Time lapse imaging, Videos, 2D Measurement including calibration: Linear, Circular, Polygon, free hand ROI, Image stitching, Extended depth of focus, Color composite, Segmentation and cell/object counting, Image stacking, Image enhancement (Hue, Saturation, Contrast etc)</p> <p>Computer: A branded compatible Laptop / Desktop to be provided with the microscope for installation of the camera and software.</p> <p>Accessories: Microscope polyvinyl dust cover.</p> <p>Certification: Microscope must</p>	1		

		<p>have international standard certificates like CE, ISO, BSI, TUV etc.</p> <p>Up gradation: Microscope should be upgradable to fluorescence microscope onsite with 100 watt / 130watt mercury burner and DAPI, FITC & TRITC filter.</p>			
22	Binocular upright brightfield microscope	<p>TECHNICAL SPECIFICATIONS :</p> <ul style="list-style-type: none"> - Observation Tube : Binocular observation tube (inclination 45°, Interouillary distance adjustment range 53 - 75mm), diopter adjustment on the left - Objectives : Achromat 4X (anti-fungus) Objectives : Achromat 10X (anti-fungus) Objectives : Achromat 40X (anti-fungus) spring Objectives : Achromat 100X (anti-fungus) spring, oil - Eyepiece : 10X (LB eyepiece 10X), F.N. 18 mm, (anti-fungus) (x2) - Lamp : LED - Coaxial coarse / fine knobs : Tension adjustment on the right side - Fine focus knob graduated - Stage movement (XY direction) on rack and pinion - Quadruple revolving nosepiece (fixed) - Plane stage 120 x 132 mm - With right hand mechanical stage - Abbe condensor N.A. 1.25 (oil immersion), with aperture iris diaphragm - Blue filter - Universal Power Supply (100V to 240V) for 6V 20 W illuminator - Mirror unit (Plano-concave) - Dust cover <p>Immersion oil</p>	15		
23	Monocular brightfield microscope	<p>All metal rugged Stand with individual Coarse & Fine Focus drive with focus stop, Maintenance Free ECO LED illumination including Battery backup with regulating intensity control for 220V / 50 Hz, Achromatic Condenser 0.90 NA with aperture iris diaphragm, 115 x 125 mm double plate Mechanical Stage with coaxial XY Drive knobs. Quadruple revolving nosepiece, Achromatic objectives 4X, 10X, 40X (spring), 100X (Spring, Oil imm), 360°rotatable 45° inclined</p>	20		

		Monocular head with Widefield Eyepiece 10x/18 lockable, dust cover			
24	Dissecting stereo-zoom microscope	Dual Step Stereo Microscope with pillar stand for adjustable focusable working distance including transmitted & reflected LED light illumination with battery back-up, 95 mm glass plate, Black & White stage plate with clips, 360° rotatable Rack & pinion focus drive, dual step turret objective of 2 x (81 mm) / 4 x (58 mm) for magnification of 20x or 40x with paired widefield eyepiece 10x / 20 mm, Microscope body with built in 45° binocular observation tube with IPD of 55-75 mm, ± 5mm adjustable diopter, dust cover	5		
25	Inverted Fluorescence Microscope	<ol style="list-style-type: none"> 1. Inverted research microscope with Inverted Microscope with transmitted LED light guaranteed for 20000 hours or more equivalent to 5500K color temperature (also provision for 12v/60 watt halogen lamp illumination) for observation under transmitted light specially the optical design should be of very high quality which capable of working under challenging contrasting technique like Differential Interference Contrast (DIC), Phase contrast, Bright field and LED reflected light Fluorescence application. 2. Ergonomic microscope designed to avoid frequent hand movement such as co-axial coarse and fine focus knobs should be ergonomically positioned at either sides of the microscope stand for fatigue free operation with adjustable focus stop, power ON/OFF switch and illumination regulation control knobs to be located close to the focus knobs for ease of operation. 3. The microscope should have five position or more to accommodate high quality infinity corrected long distance objectives 5x, 10x, LD 20x, LD 40x [provision for LD 63x and 100x] for bright field, phase contrast & fluorescence. 4. Binocular tube 45°/22 or 25 mm field with intermediate tube for camera attachment should be (100:0:0:100) for better compatibility for observation as well as 	1		

		<p>documentation along with wide field focusable eyepieces 10X with FOV 23 or 25mm or higher for large area observation.</p> <p>5. Large Specimen stage [200x200mm minimum] with object guide with co-axial drive X-Y movement. Universal mounting frame as optional to accommodate different samples like large tissue culture bottles, Petri dishes and culture flasks.</p> <p>6. Universal turret long distance condenser 0.4 of working distance 53 mm for magnification 5x-100x mm for bright field, phase contrast & DIC for plastic vessels (especially for 40X and 63X) complete with neutral-density filters & interference green filter, blue filter for contrast enhancement for transmitted light application.</p> <p>7. System should be completed fluorescence reflector turret for high performance LED fluorescence illumination at least life span 10000 hours with full intensity & LED modules with Fluorescence filters for i) UV excitation filter 365 shift free BS FT 395 Emission BP 445/50 for dyes, like DAPI, Hoechst 365 etc. ii) GFP Excitation filter 470/40, Dichromatic Mirror 495, Emission Filter 525/50 for FITC GFP Auramine etc. iii) Cy3 Excitation 545/25, Dichromatic Mirror 570, Emission filter 605/70nm. All fluorescence filters should be free from any pixel shift.</p> <p>8. High sensitive dedicated fluorescence grade microscopy cooling color camera at least 5.0 MP or higher, pixel size:3.45μm x 3.45μm, sensor chip size should be with digital binning & 12 bit color (RGB) depth, exposure time: 100μs to 4s, frame rate: 67fpsincl. driver and USB 3.0/firewire, sensor coated by IR cut off filter, 0.63x adapter for attaching camera.</p> <p>9. Complete with image analysis software for different channel fluorescence merge facility,</p>			
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		<p>time lapse imaging, Interactive measurement of morphological parameters e.g., length, area, box, perimeter, gray values, angle and all other contour-based measurement data, text annotation, multi-focusing module, text annotation.</p> <p>10. Laptop/Desktop (Lenovo/Dell/HP with Intel core processor core i3, windows 10 64 bit, 8 GB DDR3, 1TB HDD, monitor 22" screen) to be supplied along with the system to run the camera & imaging software.</p> <p>11. Warranty : One year warranty + One year free non comprehensive AMC.</p>			
26	VARIABLE VOLUME PIPETTES	<p>Capacity : 0.5 - 2 µl. Capacity : 1 - 10 µl. Capacity : 2 – 20 µl. Capacity : 10 - 100 µl. Capacity : 20 - 200 µl. Capacity : 100 - 1000 µl. * Rugged construction * Extremely smooth Piston movement * Autoclavable Tip Ejector & Tip holder * Easy to maintain * Individual factory calibration certificate with each</p>	3 complete sets.		
27	Ultrasonic probe sonicator	<p>Output Power 6.5-650W (adjustable) Frequency 20-25KHz Process capacity 0.5-500ml (approx.) Probe Dia (Titanium Alloy) 3mm, 6mm (1/4") Digital display with Temperature, Power, Time, etc. Temperature range(°C) 0-99°C With Timer (Selectable) With Overload Protection Input method Touch screen control, Data Memory 20 groups Power supply AC 220V /50HZ Dimensions LxWxH (mm) 490 x 370 x 280 With sound proof enclosure</p>	1		
28	Ice Flaker	<p>Fully Automatic microprocessor control Capacity of Ice flake (kg per 24 hrs.) – 30kg minimum Stainless Steel construction Continuous Ice Flakes Output CFC free compressor Low water level Indication Overload protection Noise <52dB Power supply AC 220V / 50Hz</p>	1		
29	Upright Advance trinocular phase contrast microscope with camera and imaging software with computer	<p>Microscope Frame : Infinity corrected Optical System. Research Upright Microscope with in-built True Koehler Illumination of pre centred LED light illumination. Highly ergonomic Design for user comfort, rust proof and vibrations free frame. Power on/off button and light intensity controller should be on the front panel of the frame. Should have LIM and SET button.</p>	1		

	<p>Focus: Coaxial Coarse and fine focus knob on both side of the frame.</p> <p>Vertical stage movement: 25 mm stage stroke with coarse adjustment limit stopper, torque adjustment for coarse adjustment knobs, stage mounting position variable, high sensitivity fine focusing knob (minimum adjustment gradations: 1 μm)</p> <p>Trinocular Tube: 30° inclined trinocular tube (FOV 22 mm), 3 step light path distribution 100:0; 80:20; 0:100 for viewing and imaging respectively. Inter-pupillary distance 50 – 76 or bigger.</p> <p>Eye piece: Pair of 10x (FN 22) lenses having diopter adjustment facility.</p> <p>Nosepiece: Interchangeable reversed Septupule (7 position) nosepiece with slot for DIC slider</p> <p>Stage: XY rectangular hard Coated Ceramic surface mechanical stage with right-hand low drive control, Stage size: 156 mm (D) x 191 mm (W) or better, Traveling range (X x Y): 76 mm x 52 mm or better.</p> <p>Slide Holder: Left hand operation, thick type, Dual slide holder.</p> <p>Condenser: Universal 5 position turret condenser suitable for BF, DF, Phase contrast and Fluorescence application NA 1.1</p> <p>Objective: High quality PLAN Achromatic (Antifungal). (FN 22)</p> <ol style="list-style-type: none"> 1. Plan 4X, NA - 0.10 2. Plan 10X, NA - 0.25 <p>(Phase)</p> <ol style="list-style-type: none"> 3. Plan 20X , NA - 0.40 <p>(Phase)</p> <ol style="list-style-type: none"> 4. Plan 40X, NA - 0.65 <p>(Phase)</p> <ol style="list-style-type: none"> 5. Plan 100X oil, NA - 1.25 <p>(Phase)</p> <p>Camera: At least 2.8 MP or higher Full HD single 1/1.8 inch sensor Color CCD camera, Pixel Size 3.65μm x 3.65μm or bigger, having minimum speed @ 25 FPS live frame rate at 1920 x 1440 resolutions. Connectivity by USB 3.0 for fast data transfer.</p> <p>Image Capture & Analysis Software Imaging software with the following feature: Snap Shot, Time lapse imaging, Videos, 2D Measurement including calibration: Linear, Circular, Polygon, free hand ROI, Image stitching, Extended depth of focus, Color composite, Segmentation and cell/object counting, Image stacking, Image enhancement (Hue, Saturation, Contrast etc)</p> <p>Computer: A Branded desktop with 1TB Hard Drive, 4GB RAM, 20 inch TFT/LCD monitor, Genuine licensed Windows 7/8/10 Operating System, DVD R/W Key board & Mouse will be supplied at free of cost along with the microscope.</p>			
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		<p>Compatibility: Microscope, camera and software should be from the same manufacturer.</p> <p>Accessories: Power cord, Dust cover and Immersion oil.</p> <p>Certification: Microscope must have international standard certificates like CE, ISO, BSI, TUV etc.</p> <p>Up gradation: Microscope should be future upgradable with 8 or more fluorescence filter turret with Mercury / LED reflected fluorescence light source.</p>			
30	Ultra Pure Water Purification System	<p>Water dispensing flow rate: Up to 1.0 l/min,</p> <p>Conductivity: 0.055 $\mu\text{S}/\text{cm}$ compensated to 25°C,</p> <p>Resistivity: 18.2 $\text{M}\Omega\text{cm}$ compensated to 25°C,</p> <p>Volume-controlled dispensing: 50 ml steps, between 0.05 and 5L</p> <p>Typical Conductivity: 0.055 $\mu\text{S}/\text{cm}$ compensated to 25 °C</p> <p>Typical Resistivity: 18.2$\text{M}\Omega\text{cm}$ compensated to 25 °C</p> <p>Microorganism content: < 1 CFU/1,000 ml</p> <p>Particle content (> 0.2 μm) < 1/ml</p> <p>Treated water via distillation or deionization.</p> <p>Input pressure: Depressurized</p> <p>Temperature: 2–30°C</p> <p>Specific conductivity :<100 $\mu\text{S}/\text{cm}$ compensated to 25 °C</p> <p>TOC content: < 50 ppb</p> <p>Turbidity: < 1 NTU</p> <p>pH value : 4-10</p> <ul style="list-style-type: none"> The system should come with closed bag system (replaceable) of 5 liter inbuilt to store consistently high quality pure water for prolonged period and prevent Contamination by ambient air. Should have technology to avoid time consuming cleaning process as well as use of chemicals. The system should have the volume-controlled dispensingfunction from 50 ml to 5 l (in 50-ml-increments) to obtainaccurate results. System should be Designed, Developed and Produced under DIN/ISO 9001 certificate Quality Management system. Also ISO-9001 company. <p>Supplied with : Water Double Distillation Plant – All Glass</p> <p>Technical Data :</p> <ul style="list-style-type: none"> - Output Distilled water quality : 2.0 lit/hr. - Conductivity : 0.8 $\mu\text{S}/\text{cm}$ - Distillate quality : Pyrogen free - Electrical Power : 220/240 V, 50/60 Hz Single phase, 2 x 1500 watts. Silica Heater 	1		

		<p>- Cooling water require : 2 - 4 lit/min - Minimum pressure : 3 p.s.i. - Dimensions : 2(250 x 180 x 450) mm (w x d x l) # With 10 Ltrs. Jar with tap</p>			
31	ROTARY VACUUM EVAPORATOR	<p><u>Vertical Condenser Rotary Vacuum Evaporator</u> Speed range : 10 to 310 rpm Provision for clock wise and anti clock wise motion as available. Evaporation capacity : Max. 23ml/min(Water evaporation) Rotation speed setting and display : Setting by dial Digital display Jack function : Manual jack function(Jack stroke 180mm, stepless) Motor : DC Brush less motor Vacuum seal : Vacuum seal(Teflon® +Teflon®. Viton double seal 1set. Sample Flask : 1 L Pear Style Ts 29/38 Receiving Flash : 1 L round style Condenser : Vertical double spiral glass coil <u>Should come complete with Digital Water Bath</u> Capacity : 4-5 L Bath material : SUS304 Temp. control range : Ambient temp. +5°C to 90°C Display : Digital display for display of actual and set temp Foot Print/Bath dimension : Ø 220 x 120H, Temp. control : Microprocessor based control 2. <u>Powerful Aspirator Vacuum Pump</u> Displacement method : Pressured water jets Displacement : 16L/min. x 2 (at water temperature 6°C) Ultimate vacuum : Max. Vacuum 7mm of mercury Motor : Induction motor output 150W Water bath capacity : 10L 3. <u>COMPACT LOW TEMPERATURE CIRCULATOR</u></p>	1		

		<p>Temp. Control range : -20°C to Ambient Temp. Control and display : Digital Refrigeration unit : 450W @ 10°C Bath capacity : 4-5L Circulating pump : Max. Flow 10L/min., Pressure Head 4.2m Safety features : Leak/over current breaker; Refrigerator high pressure switch, Overload relay, Refrigerator protection timer, Fuse for service outlet, Temp. control self diagnosis function, Pump thermal protector Foot Print : 235W x 500D x 500H mm Weight : 35-40kg</p> <p>Note: The all above equipment should be Imported and provided with all necessary accessories and spare parts from same manufacturer.</p>			
32	Medium capacity refrigerated high speed centrifuge	<p>Max. RCF 21000 or above × g Max. RCF with fixed-angle rotor 21000 × g or above Max. RCF with swing-bucket rotor 3200 × g or above Max. RCF with plate rotor 2,200 × g or above Acceleration/braking ramps 10/10 Temperature control range -9 °C to 40 °C Display large, brightly lit LCD Timer 1 min to 99 min, or above with continuous run function, short-spin Noise level < 58 dB(A) Power supply 230 V, 50 – 60 Hz Rotors: Swing bucket 90° rotor -</p> <ul style="list-style-type: none"> • Medium capacity swing-bucket rotor [90°] with speed up to 3200 × g minimum • Capable of holding adapters all common tube formats from 2 mL to 145 mL • Supplied with adapter for 28 (7x4) round-bottom 5 ml tubes • Supplied with adapter for 4 (1x4) conical tubes 50 mL • Supplied with adapter for 8 (2x4) conical tubes 15 mL 	1		

		<p>fixed angle 6X 50 ml capacity rotor with lid –</p> <ul style="list-style-type: none"> • Max. speed: 12000 × g or above • Supplied with 6 Adapters for 15 mL conical tube <p>Rotor with. rotor lid for 24 × 1.5/2.0 mL microtubes</p> <ul style="list-style-type: none"> • 24 places for 1.5/2.0 mL tubes • Max. speed: 21000× g or above • Supplied with 24 adapters for 0.2 ml PCR tubes • <p>Rotor for culture plates 90° including 2 buckets</p> <ul style="list-style-type: none"> • Max. speed: 2,200 × g minimum • Rotor should handle up to 2 × 2 standard MTP <p>Certificate and compliance: UL Listed / CE marked /IVD compliant</p> <p>Must be supplied with suitable voltage stabilizer with high voltage, low voltage cut-off, with auto reset & delay timer & spike eliminator.</p> <p>Minimum one-year warranty</p>			
33	Thermal Shaker	<p>Heating block for 24 reaction vessels 1.5 mL</p> <p>Mixing and vortexing radius - 1.5 mm</p> <p>Mixing frequency- 300 – 1,500 rpm</p> <p>Mixing orbit- 3 mm</p> <p>Temperature range- Min: 4 °C above RT, max: 100 °C</p> <p>Temperature accuracy- Max. ±0.5 °C at 20 – 45 °C</p> <p>USB interface</p> <p>Predefined temperature keys (37 °C, 42 °C, 56 °C, and 95 °C)</p> <p>heat up speed of up to 11 °C/min</p> <p>Power supply 220 – 240 V/50 – 60 Hz</p> <p>CE certified</p>	1		
34	Gel Rocker With Electronic Timer	<p>Maximum RPM : 60</p> <p>Speed controller : Analogue</p> <p>Timer : Digital</p> <p>Time range : 1-99mins/Cont.</p> <p>Platform Size : 25 x 25 cm</p> <p>Weight : 4 kgs.</p> <p>Dimension : 25 x 25 x 17.5 cms</p> <p>Input Voltage : 230V, 50Hz, A.C.</p> <p>Supply</p>	1		
35	Magnetic stirrer with hot plate	<p>Temperature Range : Above Ambient to 160°C</p> <p>Speed : 100 to 1400 rpm</p> <p>Heating coil : Strip Heater</p> <p>Temperature Controller : Analogue</p> <p>Construction : Mild steel</p> <p>Stirring capacity : 2 ltrs.</p> <p>Stirring speed : 100 To 1400rpm</p> <p>Working Condition : 4 to 60°C.</p> <p>Input Voltage : 230V, 50Hz. A.C.</p> <p>Supply</p> <p>Dimension (WDH) : 165 mm x 180 mm x 120 mm</p> <p>Weight : 4 Kgs. Approx</p>	1		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

SECTION – J

DETAILS OF ORDERS EXECUTED BY BIDDER

(Tender No. E-NIT/ZOOLAB/27/DHWU/2019)

Sl. No.	Order No.	Order Date	Order Value	Brief description of items and job details	Completed (Yes/NO)	Name of the Customer	Contact details of the Customer

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

- A. Type of Project shall indicate the implementation of services.
- B. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- C. Submit Customer Order Copy details of the order indicating the project value, customer contact details.

SECTION – K

FINANCIAL CAPABILITY OF BIDDER

(Tender No. E-NIT/ZOOLAB/27/DHWU/2019)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2015-16	2016-17	2017-18
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

Submit the audited financial statement/ audited annual report of the last three financial years.

SECTION – I

BIDDERS'S DETAILS

(Tender No. E-NIT/ZOOLAB/27/DHWU/2019)

1	Name of the Firm	
2.	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3.	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
	E-mail	
4	Is the firm a registered company? If yes, submit documentary proof	
5	Year and Place of the establishment of the company	
6	Former name of the company, if any	
7	Is the firm <ul style="list-style-type: none">• a Government / Public Sector Undertaking• a propriety firm• a partnership firm (if yes, give partnership deed)• a limited company or limited corporation• a member of a group of companies, (if yes, give name and address and description of other companies)• a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.	
8.	Is the firm registered with Sales Tax department? If yes, submit valid GST Registration certificate.	
9	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, Submit valid Service Tax registration certificate.	
10	Total number of employees. Attach the organizational chart showing the structure of the organization	
11	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
12	How many years has your organization been in business under your present name?	
13	What type best describes your firm? (Purchaser reserves the right	

	to verify the claims if necessary) <ul style="list-style-type: none"> • Manufacturer • Supplier • System Integrator • Consultant • Service Provider (Pl. specify details) • Software Development • Total Solution provider (Design, Supply, Integration, O&M) • IT Company 	
14	Name of Offices in district head quarters in West Bengal	
15	Is your organization has ISO 9001:2008 certificates?	
16	List the major clients with whom your organization has been / is currently associated.	
17	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
18	Have you ever been denied tendering facilities by any Government / University / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

SECTION – M

MANUFACTURER’S AUTHORIZATION FORM

Date:

To
The Registrar
DIAMOND HARBOUR WOMEN’S UNIVERSITY
Sarisha, Diamond Harbour Road,
South 24 Parganas, 743368

Ref: Tender No.: E-NIT/ZOOLAB/27/DHWU/2019 dated 19.10.2019

WHEREAS _____ who are official producers
of _____ and having production facilities
at _____ do hereby
_____ authorize
_____ located
at _____ (hereinafter, the “Bidder”) to submit a bid of the following
Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.

When resold by _____, these products are subject to our applicable standard end user warranty terms.

We assure you that in the event of _____, not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that _____ is our authorized service provider and can hence provide maintenance and upgrade support for our products.

We also confirm that the products quoted are on our current product list and are not likely to be discontinued within 3 years from the day of this letter. We assure availability of spares for the products for the next two years after three years warranty.

We also confirm that the material will be delivered as mentioned from the date of placement of confirmed order.

Name _____ In the capacity of _____

Signed _____

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of _____ 2019

Note: This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized signatory.

SECTION – N

FORMAT FOR PRE-BID MEETING QUERY

(Tender No. E-NIT/ZOOLAB/27/DHWU/2019)

This is deleted from the tender document and is not required to submit.

SECTION – P

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On non-judicial stamp paper of appropriate value to be purchased in the name of executing Bank)

PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT –CUM-PRFORMANCE
GUARANTEE

Ref Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of DIAMOND HARBOUR WOMEN’S UNIVERSITY, a Government of West Bengal Undertaking incorporated under the DHWU Act, 2012 having its Registered office at Sarisha, Diamond Harbour Road, 24 Pgs (S), 743368 (hereinafter called “The Purchaser”) having agreed to accept from _____ (hereinafter called “The Contractor”) Having its Head Office at _____, a Bank guarantee for Rs. _____ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. _____

_____ dated _____ issued by the Purchaser for _____

_____ (hereinafter called “the said work order _____ dated _____”) . We _____ (Name & detailed address of the branch) (hereinafter called “the Guarantor”) do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. _____ (Rupees _____) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. _____ dated _____ of which breach the opinion of the Purchaser shall be final and conclusive.

(2) AND WE, _____ DO HEREBY Guarantee and undertake to pay forthwith on demand to the Purchaser such sum not exceeding the said sum of _____ Rupees _____) only as may be specified in such demand, in the event of the Contractor failing or neglecting to execute fully efficiently and satisfactorily the order for _____ Work Order no. , _____ dated _____

(3) WE _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order as laid down in the said Work Order No. _____ dated _____ including the warranty obligations and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said Work Order No. _____ dated _____ have been fully paid and its claims satisfied or is charged or till the Purchaser or its authorized representative certified that the terms and conditions of the said Work Order No. _____ dated _____ have been fully and properly carried out by the said contractor and accordingly discharged the guarantee.

(4) We _____ the Guarantor undertake to extend the validity of Bank Guarantee at the request of the contractor for further period of periods from time to time beyond its present validity period failing which we shall pay the Purchaser the amount of Guarantee.

(5) The liability under the Guarantee is restricted to Rs. _____ (Rupees _____) only and will expire on _____ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 6 months from _____ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

(6) The Guarantee herein contained shall not be determined or affected by liquidation or winding up or insolvency or closer of the Contractor.

(7) The executants has the power to issue this guarantee on behalf of Guarantor and holds full and valid power of Attorney granted in his favour by the Guarantor authorizing him to execute the Guarantee.

(8) Notwithstanding anything contained herein above, our liability under this guarantee is restricted to Rs. _____ (Rupees _____) only and our guarantee shall remain in force up to _____ and unless a demand or claim under the guarantee is made on us in writing on or before _____ all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

WE, _____ lastly undertake not to revoke this guarantee during the currency except with the previous consent of the Purchaser in writing. In witness whereof we _____ have set and subscribed our hand on this _____ day of _____.

SIGNED, SEALED AND DELIVERED

(Stamp of the executants)

WITNESS

1) _____

2) _____

(Name & address in full with Rubber Stamp)

INSTRUCTIONS FOR FURNISHING BANK GUARANTEE

1. Bank Guarantee (B.G.) for Advance payment, Mobilization Advance, B.G. for security Deposit-cum-Performance Guarantee, Earnest Money should be executed on the Non- Judicial Stamp paper of the applicable value and to be purchased in the name of the Bank.
2. The Executor (Bank authorities) may mention the Power of Attorney No. and date of execution in his/her favour with authorization to sign the documents. The Power of Attorney is to be witnessed by two persons mentioning their full name and address.
3. The B.G. should be executed by a Nationalised Bank/ Scheduled Commercial Bank preferably on a branch located in Sarisha. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as Non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by DHWU in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Bidder are requested to mention the Purchase Order / Contract / Work Order reference along with the B.G. No. For making any future queries to DHWU.

SECTION - Q

NIT DECLARATION

(Bidders are requested to furnish the Format given in this section, filling the entire Blank and to be

submitted on Bidder's Letter Head)

To
The Registrar
DIAMOND HARBOUR WOMEN'S UNIVERSITY
Sarisha, Diamond Harbour Road,
South 24 Parganas, 743368

Sub: Delivery and Installation of Zoology Laboratory instruments of Diamond Harbour
Women's University.

Dear Sir,

We the undersigned bidder/(s) declare that we have read and examined in details the specifications and other documents of the subject tender no. E-NIT/ZOOLAB/27/DHWU/2019 dated 19.10.2019 Delivery and Installation of Zoology Laboratory instruments published by DIAMOND HARBOUR WOMEN'S UNIVERSITY in e-Tender website.

We further declare that we have agreed and accepted all the clauses / sub-clauses / formats / terms & conditions other requirements related to the said tender and we will abide by the same as mentioned in the tender document while participating and executing the said tender.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, thisday of2019