

TENDER NOTIFICATION – II (Ancient DNA Laboratory)



MADURAI KAMARAJ UNIVERSITY

(UNIVERSITY WITH POTENTIAL FOR EXCELLENCE)

Madurai 625 021, Tamil Nadu. INDIA.



Lr. No. MKU/RUSA/SBS/ADNA-2

Date : 14.06.2021

For and on behalf of Madurai Kamaraj University, the sealed tenders (**two-cover system**) are invited by the Registrar, Madurai Kamaraj University, Madurai 625 021, under the MKU-RUSA-Ancient DNA Project, for the supply and installation of the following items, from the Reputed Suppliers/executors.

No.	ITEM	EMD Amount (1% of the estimate cost)	Period of Contract
C1	Freezer (-80 degree C)	6000	90 Days
C2	Fume Hood – 2 Nos	8000	90 Days
C3	Hybridization Oven	4500	90 Days
C4	Cooling Centrifuge - 1.5, 15 & 50 ml	4500	90 Days
C5	Thermal Cycler	3500	90 Days
C6	UV Cross Linker	3500	90 Days
C7	Tabletop Centrifuge 1.5 ml	3000	90 Days
C8	Thermo Mixer	3000	90 Days
C9	Microvolume Fluorometer	3000	90 Days
C10	Refrigerator	1200	90 Days

Tenders are invited until 3.00 p.m. on 14.06.2021 which will be opened by the Purchase Committee constituted for that purpose by Madurai Kamaraj University at a date and time shown below in the presence of the Tenderers or their agents who choose to be present at the time of opening. **Technical and Commercial bid must be submitted separately and should not be clubbed together.**

The specifications, terms and conditions are available in the University website www.mkuniversity.ac.in from : 14.06.2021. The tender documents are available for downloading at the website.

Printed tender documents can be obtained from aDNA Project Office, School of Biological Sciences, Madurai Kamaraj University upon remitting the fee in the form of DD in favor of Coordinator, Ancient DNA Project, School of Biological Sciences, Madurai Kamaraj University payable at Madurai. **The Tender Application Fee of Rs. 1000/- must be paid** as DD payable to The Coordinator, Ancient DNA Project, Madurai Kamaraj University, Madurai and must be included along with the technical bid, apart from the cost of EMD.

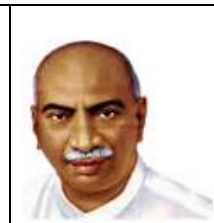
REGISTRAR

TENDER SCHEDULE (MKU/RUSA/SBS/ADNA-2)

Tender Announcement Date	14-06-2021
Publication Date on Portal	14-06-2021
Last date for Submission	5-07-2021 until 3.00 PM
Tender-Technical Bid Opening	6-07-2021 @ 3PM (Change if any due to unforeseen reasons would be intimated to the bidders)
Price-Bid-Opening	Will be intimated to the qualified bidders



Madurai Kamaraj University
(University with Potential for Excellence)
MADURAI – 625 021



TENDER DOCUMENT

Terms and condition for the Equipments listed in the Tender Notification **MKU/RUSA/SBS/ADNA-2 (EQUIPMENT NO. C1-C10)** for **the Ancient DNA Laboratory, School of Biological Sciences, Madurai Kamaraj University, Madurai – 625 021**, as per Guidelines of Government of Tamil Nadu Tender Transparency Act for the purchase of equipments by Government Departments, Undertakings and Autonomous Bodies [April 1998]

1. DUE DATE AND TIME

Sealed Tenders, in are invited for the Ancient DNA Project, School of Biological Sciences, Madurai Kamaraj University under two cover system from the reputed manufacturing concerns or their regional Agents / Authorized dealers and suppliers for the Equipments listed in the Tender Notifications MKU/RUSA/SBS/ADNA-2 (EQUIPMENT NO. C1-C10) as per specifications indicated in the Commercial bid.

The duly filled Tender forms containing the Technical Bid and Commercial Bid should reach **on or before 03.00 p.m of the date specified in the tender schedule**. Tenders received after due date and time will be summarily rejected.

The EMD (approx. 1% of the estimated cost) & The Tender Application Fee of Rs 1000 (C1-C10) should be enclosed in the Technical bid only.

For each equipment, a separate bid with the Tender Fee and EMD must be submitted.

2. MODE OF DESPATCH

Tenders should be addressed to The Coordinator, Ancient DNA Project, School of Biological Sciences, Madurai Kamaraj University, Madurai – 625 021, by designation and should be only in sealed covers by Registered or Speed Post with Acknowledgement due or in person. Tenders received in ordinary covers without seal will not be considered.

3. SUPERSSCRIPTION

The Tender should be sealed and superscribed as **“Supply, Installation of _____ (Specify the Equipment No. C1-C10) for School of Biological Sciences, Madurai Kamaraj University, due on the date and time specified in the Tender**

schedule of this document.

The Tender document relating to the Technical Bid duly filled in and signed must be put in sealed cover super scribed as **“Technical Bid”**. The Tender document relating to the Commercial Bid must be duly filled in and signed and must be put in a sealed cover separately, super scribed as **“Commercial Bid”**. The sealed Tender cover containing the Technical Bid **(with EMD & Tender Fee)** and Commercial Bid should be sent to The Coordinator, Ancient DNA Project, School of Biological Sciences, Madurai Kamaraj University Madurai – 625 021. Covers received without such superscription will be summarily rejected.

Two Cover Tender System

Bidders should examine all Instructions, Terms and Conditions and Technical specifications given in the Tender document. Failure to furnish information required by the Bid or submission of Bids not substantially responsive or viable in every respect will be at the Bidders risk and may result in rejection of Bids. Bidders should strictly submit the Bid as specified in the Tender, failing which the bids will be non-responsive and will be rejected. The Tender should be submitted in Two Parts viz Technical Bid and Price Bid as explained below:

Technical Bid Cover

- a) The Technical Bid as per the format given in the Tender document shall be typed, signed and stamped in all pages by the authorized signatory of the Tender. Any alterations, deletions or overwriting shall be attested with full signature of the Authorized signatory of the Tender.
- b) The supporting documents and other documents as given below should be submitted in the Technical Bid.

#	Documents to be Submitted
1.	EMD shall be kept in a separate cover, sealed and superscribed as “EMD cover”
2.	Covering letter in the Bidder’s letterhead shall be enclosed.
3.	Authorization letter in the Bidder’s letterhead from the Managing Director/ Partner / Proprietor or Power of Attorney from the board of Directors of the Bidder company for Authorized Signatory of the Tender Shall be enclosed.
4.	A full set of Tender document should be printed, signed by the authorized signatory and stamped in all pages as a token of accepting the conditions.
5.	Technical bid should be duly filled & signed by the authorized signatory and stamped in all the pages.

6.	All the supporting documents to establish Bidder's eligibility as required for " Tender Eligibility Criteria " should be signed by the authorized signatory and stamped in all pages and enclosed with Technical Bid.
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- c) The Technical Bid shall not contain any indications of the Price Bid whether directly or indirectly otherwise the Bid will be summarily rejected.
- d) The EMD cover and filled Technical Bid document enclosed with supporting documents should then be put in a separate cover and sealed appropriately. The Technical Bid cover should be superscribed as "*Technical Bid*" with the Tender Ref: MKU/SBS/RUSA/ADNA-2. The "FROM" address and "TO" address should be clearly written in the outer cover.
- f) The technical details submitted by the companies who participated in the tender will not be disclosed to any third party as the disclosure would harm the competitive position, trade secrets and intellectual property rights.

Price Bid Cover

- a) All the price items as per the format given in the Tender document shall be typed, signed and stamped in all the pages by the Authorized Signatory of the Tender. Any alteration, deletions or overwriting shall be attested with full signature of the authorized Signatory. Only a single price should be quoted for each Price Bid item. The Bid is liable for rejection if price Bid contains variation clause or conditional offers or partial offers.
- b) The Price Bid shall be placed in a separate cover and sealed appropriately. The price Bid cover shall be superscribed as "*Price Bid*" with the Tender Ref: MKU/SBS/RUSA/ADNA-2. The "FROM" address and "TO" address shall be written without fail otherwise the price Bid is liable for rejection.

Outer Cover

- a) Both the i) Technical Bid cover enclosed with EMD cover, and ii) Price Bid Cover shall then be put in a single outer cover and sealed appropriately. The outer cover shall be superscribed as "*Tender Application for the Supply & Installation of _____*" - Tender Ref: MKU/SBS/RUSA/ADNA-2. The "FROM" address and "TO" address shall be written without fail otherwise the Technical Bid is liable for rejection.

4. EARNEST MONEY DEPOSIT

Each Tender should be accompanied by i) The Tender Fee & ii) Earnest Money Deposit of E.M.D. (as specified in this document) by Demand Draft drawn in favour of The Coordinator, Ancient DNA Project, Madurai Kamaraj University. The Earnest Money Deposit of any unsuccessful tenderers will be returned after the acceptance of the successful tender, at the expenses of the

Tenderers within a reasonable time consistent with the rules and regulation on this behalf. The above **EARNEST MONEY DEPOSIT** amount held by the University till it is returned to the Tenderers would not earn any interest therefor. Earnest Money Deposit of the successful Tenderer may be adjusted towards security deposit for the successful tenderer.

5. EARNEST MONEY DEPOSIT

Each Tender should be accompanied by i) The Tender Fee & ii) Earnest Money Deposit of E.M.D. (as specified in this document) by Demand Draft drawn in favour of The Coordinator, Ancient DNA Project, Madurai Kamaraj University. The Earnest Money Deposit of any unsuccessful tenderers will be returned after the acceptance of the successful tender, at the expenses of the Tenderers within a reasonable time consistent with the rules and regulation on this behalf. The above **EARNEST MONEY DEPOSIT** amount held by the University till it is returned to the Tenderers would not earn any interest therefor. Earnest Money Deposit of the successful Tenderer may be adjusted towards security deposit for the successful tenderer.

5. ELIGIBILITY CRITERIA

The bidders must fulfill the following Eligibility conditions and also submit documentary evidence in support of fulfilling these conditions while submitting the Technical Bid. The University will consider the Commercial Bid of the vendors who qualify in the Technical bid. For those vendors who are not qualified in the Technical Bid, the Commercial bid will not be considered. **The bidder should submit i) GST, ii) TIN number, iii) Income Tax return details, iv) List of Institutions / Organizations supplied, v) Dealership certificate / Company Profile**, etc.

6. DETAILS TO BE FURNISHED AND MODE OF PRESENTATION

The Tender should contain particulars like name and addresses of the Tenderers, net rate including excise duty, custom duty* (for imported item, clearing and forwarding charges, surcharge, GST, freight, octroi, insurance for delivery, delivering up to the point, installation and commissioning of the equipment and such other levies that may be applicable.

- a. The rates should be kept firm for **Ninety days** from the date of the opening of the Tenders for acceptance.
- b. The rate should be quoted for each item with specification and model if applicable and should be indicated clearly both in words and figures. Any **scoring or overwriting** should be attested by the Tenderer with full signature. The rate quoted should be firm and **should not be subject** to any variation clauses.
- c. The **University shall not pay any increase in duties, taxes and** surcharges on account of any revision by the Government at the time of supply and installation.

- d. Supply of the equipment and other accessories shall be as per the specifications mentioned in the corresponding Appendixes and according to the delivery and installation schedule indicated.

7. OPENING OF TENDERS:

The tenders received upto 03.00 p.m. **on the date specified in the Tender Schedule** will be opened by the Committee constituted by University on the day as per the schedule at SK Hall, School of Biological Sciences, Madurai Kamaraj University OR at an intimated date and time (in unforeseen conditions) in the presence of those Tenderers or their representatives who may be present at the time of opening. The representatives of the Tendering firm who are attending the opening of the Tenders should bring a letter of authority from the Tendering firms which they represent to identify their bonafide.

8. AGREEMENT:

- a. The successful tenderer should execute an agreement for the fulfillment of the contract in the stamp paper in the model form enclosed in Appendix, within fifteen days from the date of acceptance of the tender.
- b. The expenses incidental to the executing of agreement shall be borne by the successful Tenderer.
- c. The conditions stipulated in the agreement form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to the rights of the University and recovery of any consequential loss from the successful Tenderer.

9. SECURITY DEPOSIT:

- a. The successful Tenderer will be required to remit the **Security Deposit** equivalent to **Five percent (5%)** of the value of the Purchase order within **fifteen days** from the date of receipt of communication/intimating them of the acceptance of the Tenders. If the accepted Tenderer fails to remit the Security Deposit within the above said period, the Earnest Money Deposit remitted by him will be forfeited to the Madurai Kamaraj University and his Tender will be held void. Purchase order will be released after execution of the above contract by the successful Tenderer and after remitting the Security Deposit by way of Demand Draft / Bankers' cheque / irrevocable bank guarantee drawn in favour of Coordinator, Ancient DNA Project, Madurai Kamaraj University, Madurai – 625 021.

- b. The Security Deposit furnished by the Tenderer in respect of his Tender will be returned to him at the **end of the warranty period** subject to the satisfaction of the University.
- c. In case of successful Tenderer, The Earnest Money Deposit, if paid, may be adjusted towards Security Deposit the Tenderer remitted.
- d. If the Tenderer fails to act according to the Tender or backs out when his Tender is accepted, his Security Deposit mentioned above will be forfeited to the University.

10. SUPPLY AND INSTALLATION

- a. The supply and installation of items and other accessories should be made strictly in accordance with the specifications given in the Commercial Bid and should successfully fulfill the tests carried out by the University. The supply and installation should be as per the delivery schedule to be sent by the University along with the placement of firm orders. The successful Tenderer should give guarantee for a period of **THREE-years** for the items and other accessories installed, against breakage or breakdowns due to manufacturing defects. The guarantee period takes effect from the date of satisfactory installation. The Tenderer shall be liable to make good the loss by replacing the item or other accessories found defective during the guarantee period. The item should be installed in the premises of the University at the cost and risk of the Tenderer.
- b. The material or goods are to be guaranteed for a period of at least three years after installation and commissioning against manufacturing defect and bad workmanship. The warranty period specified, will commence from the date of handing over the item to the University to its satisfaction.
- c. If the supply, installation and commissioning of the systems are not effected before the specified period from the date of purchase order, the University shall have the authority to cancel the order and to take any such action which will be deemed fit in the circumstances.
- d. If any manufacturing or other technical defects are found within the specified months from the date of installation, commissioning and handing over the system to the University Authorities, the same will have to be rectified or replaced free of cost by the supplier.
- e. During the warranty period, if due to manufacturing and other technical defects of the equipment supplied, the system is down and if it is not restored in working condition within 96 hours, the supplier shall be liable for a penalty of one percent per week during breakdown period on the total contract price.

- g. The warranty will cover all the materials and goods supplied by the supplier under this contract irrespective of the fact whether these have been manufactured by the supplier or not.
- h. In case of failure by the Tenderer to deliver goods or materials demanded from them within the period specified for delivery or in case of goods or materials being delivered without a correct invoice in duplicate, the Registrar or anyone duly authorized by him shall have power to reject any such goods or materials so rejected or not delivered unless the supplier shall themselves forthwith supply others that shall be sufficient and satisfactory and any excess of cost so incurred by the Tenderer over the contract price together with all charges and expenses attending the purchase shall be recoverable by the University from the supplier.
- i. The successful Tenderer shall supply licensed versions / models / products. The University will not be held responsible for any consequences arising of patent right problems.

11. PAYMENT OF COSTS:

The terms of payments for purchase of items: The cost of items will be paid on installation, commissioning and handing over of the items after testing and fulfilling the technical specifications. The testing that should be carried out for commissioning the material supplied and the satisfactory installation to be certified by the University.

12. FORFEITURE OF EARNEST MONEY DEPOSIT:

If the accepted Tenderer fails to act according to the tender conditions or backs out after his tender has been accepted, his Earnest Money Deposit will be forfeited to the University. The successful Tenderer shall not assign or make over the contract, the benefit of burden thereof to any other person or persons or body corporate. He shall not underlet or sublet to any person/s or body corporate for executing the contract or any part thereof.

13. PENALTY FOR NON-FULFILMENT OF TENDER:

Penalty will be levied at the rate of 1% per week on the total contract price if the installation and commissioning has not been completed in full within the stipulated period subject to force majeure conditions. Besides, such performance may entail black listing of the supplier.

14. ACCEPTANCE AND WITHDRAWALS:

The final acceptance of the tender is entirely vested with **University which reserves the right to accept or reject** any or all the tender without assigning any reason whatsoever. There is no

obligation on the part of the University to communicate with rejected Tenderers. After acceptance of the tender by the University, the Tenderer shall have no right to withdraw his Tender or claim higher price. Tenders with incomplete information will be summarily rejected.

15. POST WARRANTY:

The post warranty annual maintenance charges (AMC) is applicable for the remaining period after the satisfactory completion of the warranty period offered by the vendor. The annual maintenance charges should be indicated.

The AMC payable from the date of completion of warranty in advance against invoices/bill to be preferred by the vendor. The vendor agrees to provide comprehensive maintenance of the equipment, which shall include preventive maintenance and corrective maintenance at the location specified by the University. The maintenance shall also include replacement of all parts of equipments. The equipment which is down should be restored in good working condition within 48 hours. Otherwise the supplier shall be liable for a penalty of 1% per week of the breakdown period on the total price of the system. The University reserves the right to terminate the maintenance contract in the event of unsatisfactory maintenance and claim damages for non-fulfillment of contract.

16. PENALTY FOR NON-FULFILMENT OF CONDITIONS

The supplier agrees that in the event of non-fulfillment or non-observance of any of the conditions stipulated in the conditions, the Supplier shall pay as penalty an amount equivalent to 10%(ten) percent of total value of equipment or an amount equal to the actual loss incurred by the purchaser whichever is greater. This provision applies up to the end of the life cycle of the equipments (i.e.) even during the post warranty period.

17. EXEMPTION OF CUSTOMS DUTY AND EXISE DUTY

The Madurai Kamaraj University, being a Research oriented higher education institution, is exempted from paying Excise duty and Customs duty / Concessional Customs Duty. The supplier shall therefore obtain Exemption Certificate from the University, issued by the Government of India, before clearing the consignment.

18. TIME-SCHEDULE

Time-schedule is mandatory. Supply should be made within 60 days for any purchase. If not supplied or part only is supplied, then concurrence for purchase from L2 to be got from L1. If no concurrence is given by L1, then notice to be issued and after 15 days L2 is called and negotiated for the supply at L1 rate, or at a lesser price originally quoted by L2. University is vested with the power of modifying the quantity, time and alteration in the specification without hindering the requirements. Those who are agreeable for the above terms should only apply for the tender.

18. GENERAL

The tenderers while sending their tender should enclose a copy of the conditions stipulated duly certified and attested by them in token of accepting the tender conditions that they understood and accepted them in full. Tenders received without the certified copy of the conditions shall be rejected summarily.

I/We _____ have gone through the terms and conditions (Pages 1-18 of Tender Conditions) and will abide by them as laid down above.

SIGNATURE OF THE TENDERER

WITH OFFICE SEAL

OTHER APPLICABLE CONDITIONS:

1. The quotation must specify the period within which the supply could be effected from the date of receipt firm orders.
2. The prices quoted should clearly specify charges for delivery of the goods to destination indicated overleaf.
3. Sales tax or any other taxes/GST if applicable should be shown separately giving the full rate of taxes for each items giving ex-incidence of such levies.
4. If the rates are under D.G.S. & D. Please specify the same clearly enclosing necessary documents.
5. ***The brochure / leaflets/ catalogue / Diagrams, etc. describing the technical features of the offered item to be submitted for proper evaluation and would be considered for technical evaluation, in addition to the production of a prototype model of the table.***
6. Dealership certificate on the offered products must be included in case the vendor is a dealer.
7. The vendor must have credential in supplying such system in any institute of national importance and similar organizations.
8. Bidder should have valid Service Tax registration number, GST number and meet all legal requirements.
9. Any amendment / corrigendum to the RFP (Request for proposed) document shall be posted on the University Website.
10. MKU University reserves the right to call for any other details or information from any of the Bidders. Moreover, the University reserves all rights to reject any bid at any time, at any stage, fully or partly for whole process and / or for particular bidder and also reserves all rights at any time to add, alter, modify, change, edit & delete any condition at any stage. MKU also reserves the right to cancel the entire tender process without assigning any reason. In this regard, the decision of University shall be final and binding on all the participants.
11. University has the rights to cancel any Tender at any stage and in that case, the EMD and other cost paid by the bidder would be refunded.
12. Every page of the RFP document shall be signed by the bidder or by a person duly authorized by the bidder.
13. Bidder shall submit letter of authorization, authorizing the person signing the RFP document on behalf of the bidder.
14. All changes, alterations, corrections in the RFP document shall be signed in full by the person(s) signing the RFP document, with date. No eraser and/or over writing without authentications is/are permissible.

15. The complete RFP document along with the documentary evidence should be numbered.
16. The bidder shall carefully examine and understand the scope of work, specifications/conditions of RFP and seek written clarifications, if required, to ensure that they have understood all scope of work, specifications/conditions of RFP.
17. If the bidder has NSIC certification they will get the NSIC benefits.
18. If the bidder, after submission, revokes his bid or modifies the terms and conditions thereof during the validity of his bid except where the University has given opportunity to do so, the earnest money deposit submitted by Bidder shall, in such case, be forfeited.
19. The successful bidder i.e. Service Provider, within 15 days of receipt of Letter of Intent or within such extended time as may be allowed by University in its discretion, shall submit a Performance Bank Guarantee for an amount equal to 5% of the contract value having validity of 24 months (after Completion of warranty). In case of extension of maintenance contract, the Service Provider shall submit a fresh Bank Guarantee for the Contract value covering the extended period of AMC.

TECHNICAL BID

MADURAI KAMARAJ UNIVERSITY, MADURAI - 625 021

Name of the Equipment: _____

Profile of the Company:

The Company should provide the following details.

1. Name of the Organization	
2. Nature of the Organization (Govt. / Public / Private / Partnership / Proprietorship)	
3. (a) Address of the Registered Office of the firm with Phone Number, Cell No, Fax and E-mail. (b) Year of Establishment (related to Printers business) (c)SGST & CGST Reg No./GST No. (d) If approved small scale	
4. Annual turnover for the previous three years as on I. General : II. Item listed in tender Document	
5. Location of the factory with address	
6. Maintenance and service centre facilities in Madurai city / other areas and total number of Service Engineers available:	
7. Names of the Government Agencies / Educational Institutions to whom similar items have been supplied in the preceding Three year	
8. Total experience in the related areas	
9. Is your Company an original manufacturer of the item and related items? If yes, state the specific items you Manufacture	

10. What type of maintenance support does your company provide for the pares			
11. What are your conditions for up gradation of items after the warranty period?			
12. In case of breakdown of the item, what will be the mean Downtime? And state whether standby systems will be provided			
13. State the minimum amount of time required to supply the items if your company/ Organization gets the order			
14. State whether you will agree to supply the manuals Drivers for items supplied.			
15. EMD PAYMENT PARTICULARS [The DD should be enclosed in the Technical Bid only]			
(1) Number of Demand Drafts enclosed:			
(2) Demand draft particulars			
Sl.No	Name of the bank and Branch	DD No. and Date	Amount Rs.
Total			

Signature:

Name of the Firm
Phone/Mobile No.

COMMERCIAL BID
Madurai Kamaraj University, Madurai – 625 021

Tender Schedule for the

Equipment_____

to Madurai Kamaraj University, Madurai – 625 021

Sl.	Description/Specification	Qty.	Rate Rs.	Total (Inclusive of all Taxes) Rs.
1.				

Warranty Period should be clearly mentioned: Years

1. Please indicate the Annual Maintenance Charges per annum on the basic price of items, excise duty, sales tax, etc., year wise for the remaining period of 5 years life cycle after warranty period.
2. Any other details in support of the above systems you want to furnish.

Signature:

Name of the Firm

PROFILE OF THE BIDDER

1.		Name of the Bidder	
2.	a)	Original Certificate of Incorporation/ Partnership deed (Please give reference number and date along with a copy of the certificate)	
	b)	Fresh Certificate of Incorporation if any (Please give reference number and date along with a copy of the certificate)	
3.	a)	Registered office	
		Address	
		Office Telephone Number	
		Fax Number	
	b)	Contact Person	
		Name	
		Personal Telephone Number	
		Email Address	
4.		Local presence in Tamil Nadu	
	a)	Address	
	b)	Office Telephone Number	
	c)	Fax Number	
5.		Authorized signatory of Tender	
	a)	Name	
	b)	Designation	
	c)	Office address	
	d)	Contact Mobile number	
	e)	Email Address	
6.		Tax Registrations	
	a)	Permanent Account Number (PAN)	
	b)	VAT Registration Number	
	c)	CST Registration Number	
	d)	Service Tax Registration Number	
7.	a)	Name of the Bank	
	b)	Name of the Branch	
	c)	Full address of the Bank Branch	
	d)	Account No.	
	e)	IFCS Code	

Please enclose the necessary supporting documents:

COMPLIANCE TO ELIGIBILITY CRITERIA

#	Eligibility Conditions	Please furnish details & enclose supporting documents
1.	Company Registration details/ Partnership details.	
	Year of Incorporation Please enclose copy of the Certificate of Incorporation/ Partnership deed	
2.	Bidders presence in the business	
	Project description	
	Customer name	
	Work Order or Agreement reference dated on or before 31/5/2021	
	Enclose copy of the Work Order or Agreement on or before 31/5/2021	
3.	Annual turnover for the latest three Audited Financial years	
	Year 2019-20	
	Year 2018-19	
	Year 2017-18	
	Please enclose Annual Report for the above for private limited companies and balance sheet for others. * The Audited Accounts for the recent three years to be furnished.	
4.	Experience of the Bidder in execution of work for education and Research sector.	
	Name of the Customer, Work Order/Agreement reference, Value of Order	
	Geographical coverage (Please give no. of offices)	
	Please enclose copy of the Work Order/Agreements	
	Please enclose copy of project completion or performance certificates	
5.	Bidder's office in Madurai and any other place in Tamil Nadu	

TECHNICAL SPECIFICATIONS FOR THE EQUIPMENTS LISTED IN THE TENDER NOTIFICATION -II

C1. Supply and Installation of -86°C Deep Freezer

1. It should have minimum 650 Liters capacity to accommodate 400 Cryo Boxes of 2" Box Capacity.
2. It should be of Vertical type
3. It should be easy-to-use microprocessor control panel.
4. It should have temperature range from programmable or adjustable temperature from -50°C to -86°C with an increment of 1°C
5. It should have environment friendly refrigerants. CFC or HCFC refrigerants should not be used.
6. It's main door should be of double door.
7. It should have four interior compartment doors to reduce cold air loss and improve temperature recovery after door closings.
8. It should have Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish that resists chipping and rust.
9. It should have stainless steel interior.
10. It should have ~ 5" foamed-in-place, polyurethane insulation
11. It should have Two 1" (2.5cm) access ports enable use of inexpedient probes.
12. It should have Vacuum relief port to permit easy access after door openings
13. It should have Ergonomic, lockable door handle
14. It should have Power Management System with low voltage surge protection and buck/boost
15. It should have a Enhanced Finned-Tube and Forced-Air Cooled Condenser.
16. It should have the Temperature Uniformity of Less than 5 °C.
17. Freezer should have Certifications: CE listed, cULus Listed.
18. It should be supplied with 10 KVA SERVO Stabilizer.
19. Comprehensive Warranty for 3 Years must be included.

C2. Supply and Installation of Fume Hood – 2 Nos.

1. 4ft length model
2. Generous carbon filter weight to ensure uniformed filtration: Having a secondary Carbon exhaust filter that offers a higher filtration efficiency against toxic chemical fumes.
3. Average Airflow Velocity: Inflow – 0.4 m/s (80fpm) at initial set point,
4. Pre-filter: Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated,
5. Main filter: Activated Carbon with Granular Media bed, should have 8 different filter types
6. Back-up filter: HEPA filter, typical efficiency of >99.99% at 0.3 microns, to removes particle and aerosols
7. Elegant and smooth sliding sash window.
8. Grade 304 stainless steel work top surface.
9. Electrogalvanized steel wall
10. Sound Emission: 61 dBA
11. Lip at the front edge of work surface to ensure that any spillage is contained in the work zone.
12. Main Body: ~ 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder coated finish
13. Work Top: ~ 1.5mm 16 gauge electro-galvanized steel with anti-microbial white oven baked epoxy-polyester powder coating,
14. Side walls: Tempered Glass
15. Coating: Antimicrobial coating to protect against surface contamination
16. Controller: Microprocessor controller for control, alarm and monitoring system
17. Microprocessor control system with audible and visual alarms for airflow and unsafe conditions.
18. Front service panel
19. VOC sensor to monitor chemical concentration within the cabinet work zone.
20. All cabinet service and filter replacement can be carried out from the front, allowing the cabinet to be placed against wall in the laboratory.
21. Multiple Nanocarb filter options to choose from.
22. Certification: AFNOR NF X 15-203, ASHRAE 110-1995, BS7258, BS7989, CE, EN14175, all the certificate needs to be attached along with bid
23. Blower: A Quality make centrifugal motor/blowers with external rotor design
24. Cabinet full load amps: 2A,
25. Accessories: stand with castor wheels, UV Lamp must be included
26. A spare Carbon Filter and HEPA filter must be included
27. Must have supplied more than 50 cabinets in India and the list must be included.
28. Comprehensive Warranty for 3 Years must be included.

C3. Supply and Installation of Hybridization Oven:

1. It should be capable of operating either rotisserie or shaking platform
2. It should have a compact triple-oven tower can be set up for three distinct functions at different temperatures
3. It should have a digital LED display and controls
4. It should hold minimum 6 medium sized bottles
5. It should have accurate temperature control and should have provisions / adaptors / accessories to hold 15 ml Tubes
6. It should have excellent temperature uniformity
7. It should have an option to accommodate multiple rotisserie fittings
8. It should have a variable speed settings for protocol optimization
9. It should have up and down shaking motion
10. It should be supplied with 10-bottle capacity rotisserie, adjustable feet and drip tray.
11. Temperature Range: 35° to 85°C
12. Rotisserie Speed Range: 5 to 15rpm
13. Temperature Uniformity: $\pm 0.25^{\circ}\text{C}$ within bottle
14. Warranty for 3 years must be included.

C4. Supply and Installation of Table Top Refrigerated Centrifuge with 50ml, 15ml and 1.5ml Rotors

1. The Refrigerated centrifuge should be capable to offer swinging bucket, with fixed angle and microplate rotors.
2. The Refrigerated Centrifuge must have both CE marked, UL listed- for safety containment
3. The centrifuge should be capable of running at Maximum Speed of ~17,800 RPM and RCF of ~30,000 x g Force.
4. The Refrigerated centrifuge should be provided with the Fixed Angle Rotor as per below:
 - i. 24 x 1.5 / 2ml Fixed Angle Rotor running at ~17,000 RPM and ~30,000 x g RCF.
 - ii. 6 x 50ml Swing out Rotor running at ~7000 RPM.
 - iii. It should also be provided with 15 ml Adaptors for Conical Tubes.
5. Rotor shall be installed and removed very easily.
6. The Rotor should have been certified for bio-containment by a 3rd party lab of worldwide recognition preferable a Health Protection Agency, Public Health
7. The centrifuge must have a Imbalance Detection System of Continuous vibration measurement, with rotor mass correction
8. The Centrifuge should have a Temperature Range of -10°C to 40°C
9. The centrifuge must have a low profile (~30cm)
10. The Centrifuge should have a Fast acceleration and deceleration times
11. The Centrifuge should have a Pre-Cooling Function
12. Comprehensive Warranty for 3 Years must be included.

C5. Supply and Installation of THERMAL CYCLER

1. The thermal cycler should have 96 well block format.
2. The thermal cycler should have 96 well block format. It should be compatible with 0.2 mL PCR tubes, strip tubes, 1x96 well plate
3. Should have a block ramp rate of $\geq 3.9^{\circ}\text{C}/\text{sec}$ with Peltier based heating and cooling
4. Temperature range of the block should be $0^{\circ}\text{-}100^{\circ}\text{C}$ and should have heated lid with temperature adjustable upto 105°C
5. It should have gradient feature to precisely set target temperatures for PCR optimization
6. The peltier block should have six different peltier temperature zones with a range of 25°C (5°C from zone to zone). It should be able to set user defined annealing temperatures
7. Gradient feature should support a range of $30^{\circ}\text{-}70^{\circ}\text{C}$ or better
8. Temperature accuracy: $\pm 0.25^{\circ}\text{C}$ ($35^{\circ}\text{-}99.9^{\circ}\text{C}$)
9. Temperature uniformity: $< 0.5^{\circ}\text{C}$ (30 sec after reaching 95°C)
10. Sample volume range: 10-80 μL
11. The instrument should have onboard T_m calculator
12. The instrument should have the security system to create username and password for each user as well as the password protection could be turned off under the administrative user
13. The thermal cycler should have the auto restart facility for the events of power failure
14. It should have a memory to store 800 or above experimental protocols
15. Instrument should have USB, ethernet interfaces
16. Should have user-friendly touch screen LCD display (5 in or above)
- 17. Should be a CE certified model**
18. Comprehensive Warranty for 3 Years must be included.

C6. Supply and Installation of UV Cross Linker

1. UV Crosslinker used for following applications:
attaching nucleic acids to a membrane
sterilization and decontamination of plates & small tools
2. It should have preset and manual controls for ultraviolet or time exposures to enable flexibility and reliability of settings
3. It should have microprocessor to optimize the use of energy while ensuring consistent, maximum energy efficiency and output
4. It should have a factory presetting to deliver 120000 microjoules or five minutes of exposure and maximum energy setting of 999900 microjoules per cm²
5. It should have large LED display
6. It should have door window to block UV radiation
7. It should have pull out drawer for easy sample placement
8. It should have minimum five 254 nm ultraviolet light source for uniform overhead UV illumination
9. Three years of comprehensive warranty to be included

C7. Supply and Installation of Table Top Refrigerated Centrifuge 1.5 ML

1. The Refrigerated centrifuge should be capable to run samples from 1.5 to 2.0 mL tubes to mini-preps and spin columns
2. It should be supplied with fixed angle rotor to run 24 tubes in a single row with equalized g-forces
3. It should also be supplied with rotor lid
4. The centrifuge should provide acceleration up to $\sim 21,100 \times g$ in 12 seconds.
5. Rotor shall be installed and removed quickly
6. The Rotor must be certified for bio-containment by a 3rd party lab of worldwide recognition preferable a Health Protection Agency, Public Health
7. The centrifuge must have a Imbalance Detection System of Continuous vibration measurement, with rotor mass correction
8. The Centrifuge should have a Temperature Range of $\sim -9^{\circ}\text{C}$ to 40°C .
9. The set temperature should be attained in less than 10 minutes.
10. The centrifuge should have a Fast acceleration and deceleration times for quicker spins
11. It should have timer range from 1 min – 99 min, with 1 min increment and HOLD mode
12. It should be CSA certified, CE marked
13. Comprehensive Warranty for 3 Years must be included.

C8. Supply and Installation of Thermal Mixer:

1. It should have heating and cooling capability
2. It should have rapid heat-up and cooling to quickly to reach specified mixing speed
3. Temperature range should be +4°C to 100°C
4. Temperature control range should be from 15°C below ambient to 100°C
5. Shaking speed should be from 250 to 1400 rpm
6. Temperature stability should be $\pm 0.1^\circ\text{C}$
7. It should have an orbit diameter 2 mm
8. It should have even mixing across the thermoshaker block
9. It should have digital timer with sound alarm from 1 min to 96 hours
10. It should have temperature calibration function for different thermal behavior of samples.
11. It should have options for interchangeable blocks to accommodate 0.2 ml, 0.5 ml, 1.5 ml, 2.0 ml and 96-well microplates.
12. It should have LCD Display to indicate the set and actual time of operation, mixing speed, and temperature.
13. Heating/Cooling and mixing functions should be run independently of each other.
14. Comprehensive Warranty for 3 Years must be included.

C9. Supply and Installation of Micro-volume Fluorometer

1. Should be a small benchtop micro-volume fluorimeter for quantification of DNA, oligonucleotides, RNA & Proteins
2. Should be an ideal system for measuring accurate concentrations of nucleic acids for downstream applications viz. qRT-PCR, microarray, & Next-generation sequencing
3. Minimum sample volume should be 1 μL
4. Pre-saved programs for quantification of dsDNA, oligonucleotides, RNA, microRNA, RNA integrity & quality (intact vs degraded RNA), protein, device verification assay etc.
5. System should have limit of detection for dsDNA 10 $\text{pg}/\mu\text{L}$ to 1000 $\text{ng}/\mu\text{L}$
6. System should have a reagent calculator.
7. Light Sources - Blue LED (470 nm) and Red LED (635 nm) along with suitable excitation and emission filter sets
8. Detectors - Photodiodes with a measurement capability of 300-1000 nm
9. Dynamic range should be 5 orders of magnitude.
10. Measurement time should be 5 sec/per sample.
11. Should be supplied with the assay tubes and kits as per user's applications.
12. Should include USB drive and WiFi dongle to export data from the system.
13. Should be stand-alone system with intuitive touch screen color display for operation.
14. Warranty for 3 Years

C10. Supply and Installation of Refrigerator

1. Upright Model Refrigerator
2. Door - Transparent
3. Capacity: ~ 1000 Lr
4. Dimension : ~ 45" x 28" x 75" (w x d x h)
5. Temperature : 2° ~ 10°C
6. Warranty 3 Years
7. Suitable and durable branded 5 KVA stabilizer should be included.