



COTTON UNIVERSITY

Panbazar, Guwahati-781001, Assam, India

cottonuniversity.ac.in :: 0361-2601100/2733530 :: registrar@cottonuniversity.ac.in

अप्रमत्तेन वेदव्ययम्

Notice Inviting e-Bids

“ NIB No. CU/S&P/2022/16 Dt. September 9, 2022 ”

Bids are invited through e-procurement process in dual-bid {techno-commercial & financial} system from Original Equipment Manufacturers (OEMs) or their authorized dealers/suppliers/vendors or business partners with respect to proposed procurement of Major Lab Instrument/Equipment under DBT BUILDER Project.

In addition to the **processing fee worth INR 1000/- which must be deposited in the appropriate mode**, the bidding document pertaining to this notice shall be available for download beginning at 12:00P.M.{noon} of September 12, 2022 from this University's website i.e. www.cottonuniversity.ac.in or <https://assamtenders.gov.in>.

The sealed cover must be super-scribed as **“Procurement of Major Lab Instrument/Equipment under DBT BUILDER Project :: NIB No. CU/S&P/2022/16 Dt. September 9, 2022”** and addressed to **“The Registrar, Cotton University, Guwahati-781001, Assam”**. Apart from online submission, the **sealed cover** containing the bid **must also be submitted** via offline mode during office hours **on or before 2:00P.M. of October 13, 2022** in the **drop-box** arranged for the purpose. **Bid opening** shall be done in the **Office of the Registrar on the same day at 3:00P.M.** in presence of the bidders.

(Prof. Diganta Kumar Das)
Registrar

Registrar
Cotton University
Panbazar, Guwahati-781001, Assam

Memo No. CU/S&P/2022/06/

8937-47

Dated

9/9/22

Copy for information & necessary action to:

1. The Director, Directorate of Information & Public Relations, Government of Assam; he is kindly requested to arrange for publication of the abstract ad {soft copy enclosed} of this notice in the immediately next issue of 'The Assam Tribune', 'The Times of India' and 'Amar Asom', as well as submit the invoice in triplicate format for claiming the release of payment
2. The Head, Department of Zoology, Cotton University
3. The Finance Officer, Cotton University
4. Dr. Akalesh Kumar Verma, Principal Investigator of DBT BUILDER Project and Assistant Professor, Department of Zoology, Cotton University
5. Dr. Hrishikesh Upadhyaya, Co-Principal Investigator of DBT BUILDER Project and Assistant Professor, Department of Botany, Cotton University
6. Dr. Mayuri Chabukdhara, Co-Principal Investigator of DBT BUILDER Project and Assistant Professor, Department of Environmental Biology & Wildlife Sciences, Cotton University
7. Dr. Raju Bharalee, Co-Principal Investigator of DBT BUILDER Project and Assistant Professor, Department of Molecular Biology & Bio-technology, Cotton University
8. The Computer Systems Manager, Cotton University; he is requested to arrange for uploading/posting of this notice – cum – bidding document in University's website
9. The P.S. to Vice Chancellor, Cotton University
10. The University's notice board
11. The office file concerned

(Prof. Diganta Kumar Das)
Registrar

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1. Terms & Conditions:

The following terms & conditions, which are the minimum criteria for this bid, shall apply herein:-

- 1.1. In case of offline bid submission, the sealed cover must be submitted in **two separate/different, sealed sub-envelopes** clearly super-scribed as:
 - i. **'Techno-commercial Bid'**, consisting of documents, testimonials, etc. pertaining to all technical specifications & details regarding the item, commercial terms & conditions as well as other requisite compliances; and
 - ii. **'Financial Bid'**, indicating per unit base rate, per unit price, total price & value in respect of the item listed in the Techno-commercial Bid.
- 1.2. Apart from online submission, the **two separate, sealed sub-envelopes** mentioned in Clause 1.1 are required to be placed inside a bigger sealed envelope clearly super-scribed on the top of the same as **"Procurement of Major Lab Instrument/Equipment under DBT BUILDER Project :: NIB No. CU/S&P/2022/16 Dt. September 9, 2022"**. The **name & address of the bidder** along with **valid contact number(s)** must be mentioned on each of the envelopes. The **bigger sealed envelope** which is to be addressed to **"The Registrar, Cotton University, Guwahati-781001, Assam"** must be submitted during office hours on or before 2:00P.M. of October 13, 2022 in the drop-box arranged for the purpose.
- 1.3. Unless registered with the Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India or the National Small Industries Corporation (NSIC), Govt. of India, there is a processing fee to the tune of INR 1000/- (Indian Rupees One thousand only), which must be deposited through one of the appropriate modes mandated by government e-procurement system viz. Internet Banking of State Bank of India or any other bank's Multi Option Payment System (SBMOPS) on <http://assamtenders.gov.in>, or NEFT/RTGS in case of offline payment from any bank.
- 1.4. The soft copy version of the bidding document has to be downloaded from the University's website i.e. www.cottonuniversity.ac.in for which it has been provided therein under the sub-head called "NIQ/Tenders/EoI" which again is under the head called "Notifications" or the alternative website <https://assamtenders.gov.in>.
- 1.5. The Techno-commercial Bid opening & evaluation might be done in the Office of the Registrar, Cotton University on October 13, 2022 at 3:00P.M. in presence of representative(s) of the bidders. The Financial Bid of only the techno-commercially acceptable offer(s) shall be opened for the purpose of evaluation. In case Techno-commercial Bid evaluation remains incomplete that day, then date & time of Financial Bid opening might be intimated to the shortlisted bidder(s) separately.
- 1.6. In case the last date of bid submission is declared a holiday by any jurisdictional authority, then the following working day of the University shall be treated as due date/deadline for bid submission. The bid(s) received after due date & time or without sealed cover or in torn condition shall be treated as 'unresponsive' & disqualified, and that it/those shall not be entertained under any circumstance whatsoever.
- 1.7. Going forward, any addendum, corrigendum, notice of date extension, etc. shall be posted on the University's website only. As such, it is in the bidder's interest to stay alert regarding such postings.
- 1.8. All bids received shall be opened, scrutinized & evaluated by a committee constituted for the purpose of selection & recommendation with respect to Award of Contract (A.O.C.).

Signature of Registrar
Cotton University
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- 1.9. **Evaluation of bids** shall be done on the basis of the lowest offered per unit base rate, per unit price, total price and value or some other appropriate criterion/parameter adopted by the committee constituted for the purpose.
- 1.10. **All pages** of the bidding document & supporting materials, annexures/enclosures etc. must be sealed & signed by the authorized signatory representing the bidder. **All entries** by the bidder must be legibly written. Any over-writing, corrections & cuttings must bear initials of the authorized signatory. Ideally, corrections must be made by writing again instead of 'shaping' or over-writing.
- 1.11. **Unless** the bidder submits a certificate [in order to avail exemption of Bid Security money] issued by the Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India or the National Small Industries Corporation (NSIC), Govt. of India, they must invariably furnish Earnest Money Deposit (EMD) to the tune of 3% of the quoted value vide one of the appropriate modes mandated by government e-procurement system viz. Internet Banking of State Bank of India or any other bank's Multi Option Payment System (SBMOPS) on <http://assamtenders.gov.in>, or NEFT/RTGS in case of offline payment from any bank.
- 1.12. The Earnest Money Deposit (EMD) of the unsuccessful bidder(s) shall be returned after the Award of Contract (A.O.C.) or placement of order on the successful bidder, whereas the EMD of the successful bidder shall be treated as Performance Security money.
- 1.13. The Performance Security money shall be retained until three(3) years or as applicable from the date of installation & commissioning in respect of the major lab instrument/equipment, post which the same shall be returned subject to obtaining the necessary clearance or 'No Objection Certificate (NOC)' from the authorized personnel concerned.
- 1.14. The Performance Security money of the successful bidder, during the subsistence of the period of warranty, shall be interest-free [i.e.it shall not carry any interest on the principal amount] and refunded after adjustment of all dues of the University for damages of any kind, if any.
- 1.15. An offer of Replacement Guarantee encompassing immediate replacement of the 'to be supplied' item(s) against defects of manufacturing/ workmanship/ mishandling during storage & transit etc. must be provided by the successful bidder.
- 1.16. An offer of On-site Comprehensive Warranty for a period as applicable [from the date of installation & commissioning of the major lab instrument/equipment] must be provided by the successful bidder.
- 1.17. The bidder must have at their disposal adequate after-sales service & technical support personnel stationed in Guwahati. The University reserves the right to call for any information & record as well as inspect the premises of any or all of the bidders, before as well as during award of the supply contract/Purchase Order (P.O.) and subsistence of the warranty period.
- 1.18. The University shall deal with the representative(s) of the Original Equipment Manufacturer(s) (OEM(s)) or their authorized dealer/supplier/vendor or business partner directly, and thus, no other agents, commission agents, middle-men, etc. must be asked or encouraged by the bidder to represent their cause.
- 1.19. The bidder submitting their bid shall be deemed to have read & unconditionally accepted all the terms & conditions stated herein. Therefore, counter-conditional bids shall be summarily rejected.

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Registrar
Cotton University
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- 1.20. In the event of **discrepancy between online & offline techno-commercial bid**, the bid shall be **rejected/cancelled**.
- 1.21. **No verbal or written correspondence** shall be entertained in respect of acceptance or rejection of their bid.
- 1.22. **Per unit base rate, per unit price, total price, & value** [which must not under any circumstance exceed the prevailing market rate, prices, value] must be calculated considering **all taxes & duties, wages of manpower, charges for packaging/ forwarding/ freight {bulk loading & unloading}/ transit insurance, charges for on-site delivery as well as on-site installation & commissioning, etc. Other incidental expenses must be borne by the bidder themselves.**
- 1.23. **Per unit base rate, per unit price, total price, & value** in the **Financial Bid** are to be **quoted in Indian currency, i.e. Indian Rupees (INR) only.**
- 1.24. **If per unit base rate, per unit price, total price, & value** in the Financial Bid are **quoted in a format other than the one prescribed** in the bidding document, then the **bid is liable to be cancelled.** Therefore, **'Schedule of Prices'** must be **carefully & properly filled up.** **No corrections and/or alterations in the Financial Bid shall be permitted at a later stage.**
- 1.25. In case **identical/exact per unit base rate(s), per unit price(s), total price(s), & value** quoted by multiple successful bidders is/are **approved against the item**, the **allocation of task post-selection & recommendation shall be made by nomination basis.**
- 1.26. **On-site delivery, on-site installation & commissioning** in respect of the major lab instrument/equipment [besides any **on-site training {if necessary}**] must be carried out by the authorised representative(s) of the **Original Equipment Manufacturer (OEM) or their authorized dealer/supplier/vendor or business partner** entirely at their own risk & free-of-cost in the presence of and to the satisfaction of the authorized personnel of the University.
- 1.27. The successful bidder must **deliver, install & commission** the ordered **major lab instrument/equipment** at the **premises of the University or any other site(s)/location(s) to be finalized in due course of time** by the authorized personnel concerned. The former must also **collect the item for return, if any.**
- 1.28. The successful bidder must ensure to deliver **adequate & prompt after-sales service & support, whenever & wherever called for, at the designated site(s)/location(s) during such time in the day as may be specified for that particular place from time to time which include all working days and even on holidays.** Apart from **delivering the required services, as & when called for, the bidder must discharge any other duty, which in the opinion of the University are within the scope of work of the bidder, and that such duties must be carried out with due diligence & care.**
- 1.29. The successful bidder must **not divulge any information, confidential or otherwise, that he may come across.** The **authorized representative(s) of the bidder shall be granted access/permission by the University to enter the premises only for the purpose of carrying out the contractual obligations** and not for any other reason or purpose. **Prior permission from the authorized personnel of the University must be obtained by the authorized representative(s) of the bidder in the event of them being required to remain on the University premises beyond the stipulated time and/or on Sundays & fixed public holidays for whatsoever reasons.**


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- 1.30. The **successful bidder & their authorized representative(s)** shall be **liable to be dealt with suitably** in the event of **infringement of any law**. Any **financial liability arising on the University** shall be **deducted from the invoice(s) of the bidder**; and if the **full quantum/amount of money** is still **not recovered**, then it shall be **recovered from the Performance Security money** of the bidder.
- 1.31. In case the **successful bidder fails in fulfilling the obligations** under the bid or resultant supply contract/ Purchase Order (P.O.), fully and in time, the **University** shall have the **absolute right to take up the task/assignment at the bidder's cost & risk**, and **recover all such expenses from the amount(s) of money due to the bidder including their Performance Security money**.
- 1.32. If **any damage** is caused to **persons and/or property of the University** by the successful bidder or its personnel deployed in the University's premises in the course of execution of task/assignment under the resultant supply contract/ Purchase Order, then the **bidder shall be liable for the same** and that they shall **indemnify the University** against such damages. The bidder shall also **render all assistance & cooperation** to the University in the event of any **inquiry relating to any such incident or accident**.
- 1.33. **No advance payment** shall be made to the successful bidder. **Payment** shall be made only **after due scrutiny, verification, endorsement, & certification** of successful execution of the allotted task/assignment, by the **University's authorized personnel** who shall necessarily be one or more of the officers/officials/end users designated by the University for the purpose.
- 1.34. The successful bidder is **liable to forfeit their Performance Security money** and **be barred from bidding in the future** if **after receipt of the resultant supply contract/ Purchase Order (P.O.)**, they **fail to deliver the ordered item and fulfil due obligations** with respect to the same. **For any deficient service**, the University reserves the **right to terminate the contract/ P.O.** and **initiate such further penal, including legal, action** as deemed appropriate.
- 1.35. The successful bidder must **not delegate or sublet/subcontract the supply assignment or any part thereof to any other entity/contractor/vendor or business partner** without a prior written consent/approval of the University authority; and such **consent, even if provided**, shall **not relieve the bidder from any liability or any obligation** under the resultant supply contract/ Purchase Order.
- 1.36. **Statutory levies & taxes**, as applicable from time to time, might be **deducted at source** {as Tax Deducted at Source (TDS)} **from the invoice(s)** of the successful bidder at the time of settlement of the same **unless the bidder produces a certificate {from the Income Tax authorities} to the contrary**. TDS certificate, wherever applicable, shall be issued by the University to that effect. Taxes, as applicable, shall be paid as per rules.
- 1.37. The successful bidder must **observe all the laws** and be **solely responsible for any prosecution or liability arising from breach** of any of those laws. The bidder must be **responsible for compliance with all central & state laws** as per rules/ regulations/ bye-laws/ orders of the local authorities & statutory bodies as may be in force from time to time **during the subsistence of the resultant supply contract/ Purchase Order (P.O.) and period of warranty**. The bidder must also **indemnify the University and its officer(s)/official(s)/end user(s)** from any claim or consequences/damages for any lapse or non-compliance thereof. If, at any point of time, it is **found that any type of liability** has been **fixed on the University or its employees by any government or local body/authority** with respect to the **contract/ P.O.**, then the **total responsibility** must be **borne by the bidder**.

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- 1.38. **If, at a later date, it is found that any of the information, documents, testimonials or certificates submitted by the successful bidder is wrong/ forged/ fake/ false/ manipulated, then the supply contract/ Purchase Order (P.O.) shall stand cancelled with immediate effect and that the Performance Security money shall be forfeited without any claim whatsoever against the University.**
- 1.39. **Mere submission of the bid does not confer any right on any eligible bidder for being selected as a successful bidder and to subsequently obtain an Award of Contract (A.O.C.)/ Purchase Order (P.O.).**
- 1.40. **Non-conformity to any of the stipulated terms & conditions and/or non-submission of any of the documents/ testimonials/ fees etc., reference of which is/are made in the 'Enclosures-cum-Checklist' Section, shall amount to the bid being 'incomplete' thereby disqualifying the bidder owing to which their bid shall not be considered, but instead, summarily rejected by the bid opening & evaluation committee.**
- 1.41. **The bid shall be rejected if:-**
- the authenticity of any of the supporting documents is found to be fabricated or false or untrue or incorrect or forged or deceitful; or
 - the bidder is found to have been blacklisted by any government/ non-government organization/ Public Sector Undertaking in the preceding three(3) years; or
 - the bidder is convicted, punished, charge-sheeted in a criminal case involving moral turpitude; or
 - the bidder tries to canvass the bidding process or influence any official of the University, in any manner whatsoever; or
 - the bid or any part thereof is found to be conditional or contradictory in nature & interpretation.
- 1.42. **Selection shall not ipso facto (by itself) confer any right on the successful bidder to receive the resultant Award of Contract (A.O.C.)/ Purchase Order (P.O.) from the University and that the same shall in no way guarantee or ensure allotment of task/assignment. Under exceptional circumstances, the University reserves the right to procure the major lab instrument/equipment from any other reliable entity/contractor/vendor or business partner which might not be selected as per this or any other bid.**
- 1.43. **The University reserves the right to cancel the resultant supply contract/ Purchase Order by giving a notice in writing without assigning any reason whatsoever in lieu thereof. Any notice sent by the University to the address recorded in the bidding document of the successful bidder shall be deemed to have been properly served for any of the purposes mentioned herein.**
- 1.44. **The decision of Cotton University on all matters connected with or incidental to selection of supplier/vendor shall be final & binding on all, and that it shall not be called in question on any ground. In case of any ambiguity or dispute that may arise in the interpretation of any of the clauses in this bidding document, the interpretation of the Registrar shall be final & binding on all.**
- 1.45. **Cotton University reserves the right to amend or withdraw any of the terms & conditions and also update/ modify/ relax/ waive/ supplement the minimum criteria/requirements at any point of time. The University also reserves the right to accept the offers in full or in parts or reject the same summarily or partly. Additionally, the University reserves the right to accept, consider or reject any or all of the offers without assigning any reason in lieu thereof.**

6/10/20 Registrar
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- 1.46. **The Registrar or any officer/official authorized** by the University authority, shall have the discretion to review or ascertain & enforce due & proper observance of the laws, rules & regulations. The officer(s)/official(s) so authorized by the University, or the Registrar, might by himself, investigate into any complaint in the case of any default on the part of the successful bidder vis-à-vis terms & conditions of the bid. **No bidder shall be allowed to be represented by any legal expert during the course of any mutual discussion, consultation, investigation, enquiry, appeal or any other proceeding** conducted by or before any officer/official of the University against the bidder.
- 1.47. In the event of any ambiguity or dispute or difference between the parties involved relating to or concerning the interpretation of the resultant supply contract/ Purchase Order or any alleged breach thereof or any matter relating to the contract or the bid, the same shall be settled by the parties concerned, as far as possible, by mutual discussions & consultations between themselves. The dispute shall be so settled only when the same has arisen during or after the placement of the order and/or during the subsistence of the period of warranty; and that the decision taken by the Registrar shall be final and binding on all parties concerned.
- 1.48. The law of the land shall apply to the supply contract/ Purchase Order arising out of this bid. All disputes in this connection & all matters arising out of the same shall be settled exclusively in the courts falling under the jurisdiction of Kamrup Metropolitan district authority.


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1. Enclosures-cum-Checklist:

- ❖ Documents etc. which must be placed inside the sub-envelope titled 'Techno-commercial Bid' are:
- Payment receipt or document indicating payment of the processing fee worth INR 1000/-
 - Earnest Money Deposit (EMD) to the tune of 3% of the quoted value
 - Copy of the bidding document duly stamped with the office seal and signed by the authorized signatory representing the bidder thereby implicating that all terms & conditions stipulated in the bidding document are unconditionally acceptable to the bidder
 - Copy of Proprietary Article Certificate (PAC) or valid Letter/Certificate of Authorization/ Dealership or Manufacturer Authorization Form (MAF) issued by Original Equipment Manufacturer (OEM) exclusively against this particular bid number
 - Copy of OEM's Product Brochure/ Technical Literature regarding the offered product which include detailed specifications, images, sketches, diagrams, test reports, energy ratings, etc. as applicable
 - Statement/Table indicating Technical Compliance stating University's required item's specifications vis-à-vis bidder's offered item's specifications in the letterhead of the bidder
 - Copy of the up-to-date Trade License issued by the applicable government/statutory authority under the administrative jurisdiction in respect of the district or Union territory
 - Copy of the Certificate of Registration pertaining to GSTIN and document(s) indicating up-to-date GST Returns filing
 - Copy of document(s) indicating Income Tax Returns (ITR) filing for Financial Years 2019-20 & 2020-21 {i.e. for Assessment Years 2020-21 & 2021-22}
 - Copy of documents/testimonials [set(s) of purchase orders along with corresponding delivery challans & installation reports/certificates] indicating previous work experience of having supplied similar major lab instrument(s)/equipment to government or semi-government organisation(s)/ Public Sector Undertaking(s)/ higher educational institute(s) situated in north-eastern region of India during the preceding three(3) years
- ❖ Document which must be placed inside the sub-envelope titled 'Financial Bid' are:
- Copy of the prescribed format of 'Schedule of Prices' duly filled up in neat & legible handwriting

Shilpa
Registrar
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2. Specifications:

Sl. No.	Name of Major Lab Instrument/Equipment	Detailed Specifications
1.	HPLC / Semi-preparative HPLC	<p>Applications: Complete phytochemicals analysis (plant samples), sugar analysis in plants and animal tissues, amino acid profiling with plants and animal samples.</p> <ul style="list-style-type: none">• Supply, installation and commissioning of a High performance liquid chromatography (HPLC) system suitable for analytical and preparative applications.• The HPLC system should include the following individual stackable self-contained modules with control software• Organizer• Solvent delivery system• FLR detector• PDA Detector• RI Detector• In Line degasser• Auto sampler• Chromatographic software• Data acquisition• Suitable columns and its guard columns <p>Quaternary Pump: PUMP: Solvent Delivery unit suitable for Analytical & Semi-Prep flow rates</p> <ul style="list-style-type: none">• Quaternary Pump with 4 or more solvent blending should be quoted & it should run in both Isocratic & Gradient Methods.• The flow rate range should be between 0.001 to 5 ml/min or more• Operating Pressure range should be 9500 psi or more.• Flow rate accuracy should be $\pm 0.1\%$ or better• Flow rate precision should be less than $\pm 0.06\%$ RSD or better.• System should have composition accuracy of $\pm 0.5\%$ or better <p>Sampler Manager (Auto Sampler):</p> <ul style="list-style-type: none">• The Injector must be capable of injecting samples dissolved in aqueous and/or organic solvents at operating pressures up to 9,500 PSI (655 bar) or better• The injector must have an integrated and programmable needle wash• The injector must have measurable carryover of less than $<0.002\%$ or less• The sample compartment temperature must be from 4 to 40°C or better• The injector must have the ability to required dilution of samples• The injector must be capable of injection volumes from 0.1 to 50μL as standard & upgradable to 1000.0μL• pH compatibility 1-12 with buffer/salt compatibility.



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- The sample compartment must be able to accommodate multi vial formats [2ml vials, 96 & 384 well plates etc.]
- The injector linearity shall be equal to or better than 0.999 correlation coefficient over its entire injection range
- Injection Carry over should be $\leq 0.002\%$ or better
- Temperature Accuracy should be $+4C$ or better

Columns:

Column Accessories

Analytical Column (with one guard column for each):

- a) C18 HPLC column (4.6X250 mm, $5\mu\text{m}$) (1 nos)
- b) C18 HPLC column (2.1X150 mm, $1.9\mu\text{m}$) (1 nos)
- c) HILIC HPLC column (4.6X250 mm, $5\mu\text{m}$) (1 nos)
- d) Amino acids column (4.6X250/150mm, $5\mu\text{m}/3\mu\text{m}$) (1 nos)

Preparative Column:

- e) C18 PREP HPLC column (19X250 mm, $5\mu\text{m}$) (1nos) with guard column (01 no.)

HILIC PREP column (10X250 mm, $5\mu\text{m}$) (1 nos) with guard column (01 no.)

Photo Diode Array Detector:

- Wavelength range: 190 nm to 800 nm or better with 1024 diode elements
- Spectral Bandwidth: <1 nm with minimum 0.6nm pixel resolution.
- Wavelength accuracy: ± 1 nm. or better
- Linearity should be The detector must typically provide a linear range up to 2.2 AU or better > 2 AU (5%) at 265 nm.
- Data acquisition rate: 120 Hz or better. Simultaneous acquisition of eight simultaneous channels along with 3D
- Filter for wavelength accuracy check: Auto-calibration with deuterium lines, verification with Holmium oxide filter (or similar advanced technology) .
- Light source: D2 and W lamps temperature control for both the lamps
- The detector must have built in safety features like leak detection and safe leak handling, excess pressure monitoring.
- Lamp temperature control with life span monitoring facility should be available.

Standard analytical flow cell, 10 mm path length, should be provided.

Fluorescence Detector:

- Detector should have wavelength range of 210 to 890 [both Excitation & Emission]
- Detector Should have Bandwidth of 20nm or better
- Detector Should have Wavelength accuracy of ± 2 nm
- Detector Should have sensitivity of $S/N \geq 1000$ or better
- Wavelength Repeatability: ± 0.2 nm or better
- Detector should have Sampling rate of up to 20 points in single wavelength mode & 1 point in 3D mode
- Detector should have Light Source of Xenon flash lamp or better

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with a minimum warranty of 2000 hours

- Detector should have flow cell volume of 13 μ L or lower
Flow Cell Thermostatting 15 $^{\circ}$ C above ambient to 50 $^{\circ}$ C or better

Refractive Index Detector:

- Refractive index measurement range should be 1 to 1.75 RIU or higher
- Noise: 2.5×10^{-9} RIU/ ≤ 2.5 nRIU or better
- Drift: 1×10^{-7} in RIU/h / 0.2 μ RIU/h or better
- Zero adjustment: Auto zero, Optical Zero, Fine Zero
- Cell: Volume 9 μ L or lower

Chromatography Software with 3 D Data acquisition

- Original Licensed Data Management System/software.
- Should acquire, integrate, quantitate, and report data produced by a chromatography instrument
- The software should be latest, original, authentic and MUST BE COMPLAINT READ for GLP/GMP/CFR & 21CFR Part 11 compliance of US FDA
- Should have option for manual & Automated Integration with strict Audit Trails features
- Should have option for multitasking without multiple software packages
- Should have option for data integrity along with advanced security measures for the safety Scientific Data
- Should control all HPLC Detectors like WV, PDA, RI, FLR without any additional software purchases later and should be upgradable MS detector for future upgradation as & when required.
- Should have Customizable data reports, online help and answer wizards.

Suitable embedded data base is MUST for extended data security of scientific data should be capable enough to program at least 1-9 different gradient curves

Refractive Index Detector :

- Refractive index measurement range should be 1 to 1.75 RIU or higher
 - Noise: 2.5×10^{-9} RIU/ ≤ 2.5 nRIU or better
 - Drift: 1×10^{-7} in RIU/h / 0.2 μ RIU/h or better
- Cell: Volume 9 μ L or lower

Automated Fraction Collector (Preferable):

- Should Support Flow rate of: 150ml/min or better
- Should have Large capacity, holds up to 140 tubes or more or 4 \times 96 well plates
- Tubes/Racks:
 - ❖ tubes (50 mL) Suitable Racks with Tubes
 - ❖ tubes (30 mL) Suitable Racks with Tubes
 - ❖ tubes (20 mL) Suitable Racks with Tubes
 - ❖ tubes (14 mL) Suitable Racks with Tubes

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- ❖ tubes (8 mL) Suitable Racks with Tubes
- Sample cooling Facility: - 2 °C / + 4 °C or better
- Sample Temperature Stability: ± 1 °C or better

Column Manager (Column oven):

- The column compartment must be able to support columns up to 30 cm in length
- The column compartment must support optional column selection, up to 2 columns
- The column compartment temperature range should be 5 DEGC to 70°C or more
- The column compartment must have temperature accuracy of +/- 0.5°C or better
- The column compartment must have temperature stability of +/- 0.3°C or better

Chromatography Software with 3 D Data acquisition

Amino Acid Analysis kit :

All the reagent and accessories for the amino acid analysis is to be provided along with the system from Protein hydrolysis to sample derivatization steps Like

- Vacuum hydrolysis tube (Branded Make).
- Hydrolysis Block/Chamber (Branded Make).
- Amino Acid standards (Branded Make).
- Derivatization Kit (If required by the vendor for Pre Column analysis)
- Installation and interactive training for analysis in case of rice samples for at least 10 days continuously. Advanced application training for method development etc should also be provided.

The entire component should be offered with the specific description and part numbers. Technical Bid with Insufficient technical information and description will be rejected.

Other Accessories:

- Necessary branded computer (with suitable latest configuration, 21" LED monitor, CD/DVD drive and a branded laser printer).
- 3 KVA Online UPS with minimum 30 minutes back up.
- Suitable calibration standard should be supplied during the installation.
- Solvent organizer with suitable solvent containers with filters, tubing (preferably SS tubing), etc. should be provided.
- Sample Solvent filtration Kit with Pump.
- Suitable Columns for the analysis of amino acids, small peptides, secondary metabolites, different sugars etc.
- All essential accessories like branded desktop with latest configuration and colour laser printer, suitable UPS (2 KVA at least 30 min backup) for operations of the whole system are required.
- **Certificate for the availability of spares for 10 years.**
- **Extensive Training to be provided at installation site with a**

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qualified application specialist.

- Warranty: 3 years (onsite).

Other Conditions:

- Submitted model should have international CE and ISO certificates.
- Vendor should have proven track record and should provide at least 15 installation details in various Govt Labs, Government Institutes any reputed government institute/university. Along with institute name, customer details, contact details as per requirement
- All the supporting technical documents should also be available on the OEM website for verification
- All the specification needs to be supported with authenticated online data sheet and documents
- Proper Training of the Faculties/Staffs should be done after installation of the machine.

Manufacturer and their authorized distributor should routinely check the instrument even during warranty period. Also during warranty should periodically check whether the handling and maintenance of the instrument is done as per prescribe guidelines.

Signature

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3. Schedule of Prices:

Sl. No.	Name of Item with Brand & Model	Per Unit Base Rate {INR}	Rate of GST {%	Value of GST {INR}	Per Unit Price {INR}	Quantum	Total Price {INR}
[A]	[B]	[C]	[D]	[E]	[F=C+E]	[G]	[H=FxG]
1	HPLC / Semi-preparative HPLC					1 set	
						Value {INR}	

Name of the **Bidder**:

Address of the **Bidder**:

Contact Number(s) of the **Bidder**:

E-Mail ID(s) of the **Bidder**:

Type of Business Entity of the **Bidder** [Proprietorship/Partnership/Company]:

Full Name {in BLOCK Letters} of the **Authorized Signatory**:

Full Signature of the **Authorized Signatory** with Date:

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Office Seal/Stamp: