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COTTON UNIVERSITY

Panbazar, Guwahati- 781001

Notice Inviting Bids

" NIB No. CU/S&P/2022/20 Dt. November 05, 2022 "

Bids in sealed cover are invited from Original Equipment Manufacturers (OEMs) or their authorized dealers/suppliers/vendors or business partners in dual-bid (techno-commercial and financial) system with respect to procurement of Lab Equipment for DAE-BRNS Project under Department of Physics, Cotton University. The deadline for the same is 2:00 P.M. of December 02, 2022. For details, please visit www.cottonuniversity.ac.in.

S/d, Registrar

Bulm
5/11/22
Registrar
Cotton University
Panbazar, Guwahati-781001, Assam



COTTON UNIVERSITY

Panbazar, Guwahati-781001, Assam, India

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Notice Inviting Bids

" NIB No. CU/S&P/2022/20 Dt. November 05, 2022"

Bids in sealed cover are invited from Original Equipment Manufacturers (OEMs) or their authorized dealers/suppliers/vendors or business partners in dual-bid {techno-commercial and financial} system with respect to Procurement of Lab Equipments for DAE-BRNS Project under Department of Physics, Cotton University.

The bidding document pertaining to this notice, along with the requisite nos. of ICICI Bank Challan- 'FEE CODE 011' which is meant for payment of a processing fee worth INR 1000/-, must be downloaded from the University's website i.e. www.cottonuniversity.ac.in. The sealed cover must be super-scribed as **"Procurement of Lab Equipments for DAE-BRNS Project under Department of Physics, Cotton University :: NIB No. CU/S&P/2022/20 Dt. November 05, 2022"** and addressed to **"The Registrar, Cotton University, Guwahati-781001, Assam"**. The sealed cover containing the bid must be submitted during office hours **on or before 2.00 P.M. of December 02, 2022** in the **drop-box** arranged for the purpose. Bid opening might be done on the same day at **3:00 P.M.** in presence of the bidders.

(Prof. Diganta Kr. Das)
Registrar

blu 5/11/22
Cotton University
Panbazar, Guwahati-781001, Assam

Memo No. CU/S&P/2022/11/ *10653-61*

Dated *5/11/22*

Copy for information and necessary action to:

1. The Director, Directorate of Information and Public Relations, Government of Assam; he is 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 P.S. to the Vice Chancellor, Cotton University
3. The Head, Department of Physics, Cotton University.
4. Prof. G. C. Wary, Principal Investigator of DAE-BRNS Project and Professor, Department of Physics, Cotton University
5. Prof. Jiban Jyoti Das, Co-Principal Investigator of DAE-BRNS Project and Professor, Department of Physics, Cotton University
6. The Finance Officer, Cotton University
7. The Systems Manager, Cotton University; he is requested to arrange for uploading/posting of this bidding document in the University's website
8. The University's notice board
9. The office file concerned

(Prof. Diganta Kr. Das)
Registrar

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1. Terms and Conditions:

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

- 1.1. The sealed cover must be submitted in **two separate, sealed sub-envelopes** clearly super-scribed as:
 - i. **'Techno-commercial Bid'**, consisting of documents, testimonials, etc. pertaining to all technical specifications/ details of item(s) in addition to commercial terms and conditions as well as other requisite compliances; and
 - ii. **'Financial Bid'**, indicating per unit base rates, per unit prices, total prices and value of the items listed in the Techno-commercial Bid.
- 1.2. 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 Lab Equipments for DAE-BRNS Project under Department of Physics, Cotton University :: NIB No. CU/S&P/2022/20 Dt. November 05, 2022"**. The **name and address of the bidder** along with **valid contact number(s)** must be mentioned on each of the envelopes. The **bigger sealed envelope** which is required to be addressed to **"The Registrar, Cotton University, Guwahati-781001, Assam"** must be submitted during office hours on or before **2:00 P.M. of December 02, 2022** in the drop-box arranged for the purpose.
- 1.3. Irrespective of having been 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 mandatory processing fee to the tune of **INR 1,000/- (Indian Rupees One thousand only)**, which must be deposited through the requisite nos. of ICICI Bank Challan-'FEE CODE 011' at any of the branches of ICICI Bank. The soft copy version of the aforementioned bank challan 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".
- 1.4. The sealed and signed counter-foil [which indicates payment of the processing fee] with regard to the bank challan bearing the heading 'UNIVERSITY'S COPY' must be submitted in the sub-envelope titled Techno-commercial Bid.
- 1.5. Techno-commercial Bid opening and evaluation might be done on the same day at 3:00 P.M. in presence of the bidders. Financial Bid of only the techno-commercially acceptable offer(s) shall be opened for the purpose of evaluation. In case the Techno-commercial Bid evaluation remains incomplete that day, then the date and time of Financial Bid opening shall be intimated to the shortlisted bidder(s) separately.
- 1.6. In case the date of bid submission is declared a holiday by any jurisdictional authority, the following working day of the University shall be treated as due date for bid submission. The bid received after due date and time or without sealed cover or in torn condition shall be treated as 'unresponsive' and disqualified, and shall not be entertained under any circumstances 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.


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- 1.8. All bids received shall be opened, scrutinized and evaluated by a committee constituted for the purpose of selection and recommendation with respect to Award of Contract (A.O.C.)/ Purchase Order (P.O.).
- 1.9. Evaluation of bids shall be done separately for each item/ category of items on the basis of the respective lowest offered per unit base rates, per unit prices, total prices and value or some other appropriate criterion/parameter adopted by the committee constituted for the purpose.
- 1.10. All pages of the bidding document and supporting materials, annexure/enclosures etc. must be sealed and signed by the bidder or their authorized signatory. All entries by the bidder must be legibly written. Any over-writing, corrections and 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 Earnest Money Deposit (EMD)] 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 EMD to the tune of 3% of the quoted value vide Banker's Cheque/ Demand Draft only {and not in any other mode}, drawn in favour of "Cotton University" and payable at "Guwahati".
- 1.12. The Earnest Money Deposit (EMD) of the unsuccessful bidder(s) shall be returned after placement of Purchase Order (P.O.)/ Award of Contract (A.O.C.) on the successful bidder, whereas the EMD of the successful bidder(s) shall be treated as Performance Security money.
- 1.13. The Performance Security money shall be retained until three (3) years from the respective date of installation {and commissioning, if applicable} pertaining to all the minor lab equipment, post which the same shall be returned subject to obtaining the necessary 'No Objection Certificate'/ 'Clearance Report' from the authorized personnel/ end user 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 be 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 and transit etc. must be provided by the successful bidder.
- 1.16. An offer of On-site Comprehensive Warranty for a period of at least three (3) years [from the date of installation {and commissioning, if applicable} of the lab equipment] must be provided by the successful bidder.
- 1.17. The University reserves the right to call for any information and 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 (OEM) or their authorized dealer/supplier/vendor or business partner directly, and thus, no other 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 and unconditionally accepted all the terms and conditions stated herein. Therefore, counter-conditional bids shall be summarily rejected.

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- 1.20. **No correspondence** shall be entertained in respect of acceptance or rejection of bid.
- 1.21. **Per unit base rates, per unit prices, total prices, value** [which must not under any circumstance exceed the respective **Maximum Retail Prices (MRPs)** or reasonable market rates, prices, value] have to take into account **taxes and duties, wages of manpower, charges for packaging/ forwarding/ freight {bulk loading and unloading}/ transit insurance, charges for on-site delivery as well as on-site installation and commissioning, etc.** Other incidental expenses must be borne by the bidder themselves.
- 1.22. **Per unit base rates, per unit prices, total prices, and value** in the **Financial Bid** must be quoted in Indian currency, i.e. Indian Rupees (INR) only.
- 1.23. If **per unit base rates, per unit prices, total prices, and value** 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 and properly filled up.
- 1.24. **On-site delivery, on-site installation {and commissioning, if applicable} of the lab equipment** [besides any **on-site training {if necessary}**] must be done 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 and free-of-cost in their presence and to the satisfaction of the authorized personnel of the University.
- 1.25. The successful bidder must deliver the ordered item(s) at the **Department of Physics, Cotton University or any other site(s) to be finalized in due course of time** by the authorized personnel. Besides, the former must also collect item(s) for return, if any.
- 1.26. The successful bidder must provide adequate and prompt after-sales service and support, whenever and wherever called for at the designated site during such time in the day as may be specified for that particular place from time to time which shall include all working days/ shifts and even on holidays. Apart from delivering the required services, as and when called for, the bidder must discharge any other duties, 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 and care.
- 1.27. 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 in respect of the supply contract/ Purchase Order 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 and fixed public holidays for whatsoever reasons.
- 1.28. The successful bidder and their 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 of the bidder; and if the full amount is still not recovered, the same shall be recovered from the Performance Security money of the bidder.
- 1.29. In case the successful bidder fails in fulfilling the obligations under the bid or supply contract/ Purchase Order, fully and in time, the University shall have the absolute right to take up the work at

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the bidder's cost and risk, and recover all such expenses from the amount of money due to the bidder including their Performance Security money.

- 1.30. 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 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 and cooperation** to the University in the event of any **inquiry relating to any such incident or accident**.
- 1.31. **No advance payment** shall be made to the successful bidder. **Payment** shall be made only **after due scrutiny, verification and certification** by the **authorized personnel of the University** who shall necessarily be officer(s)/official(s)/end user(s) designated by the University for the purpose regarding the successful execution of the allotted task/assignment by the authorized representative of the bidder.
- 1.32. The successful bidder is **liable to forfeit their Performance Security money and be barred from bidding in the future** if **after receipt of supply contract/ Purchase Order**, they **fail to deliver the minor lab equipment and/or 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.
- 1.33. The successful bidder shall **not delegate or sublet/subcontract the supply assignment or any part thereof to any other entity/company/agency/contractor/supplier/vendor or business partner** without the prior written consent/approval of the University; and such **consent, even if provided**, shall **not relieve the bidder from any liability or any obligation** under the supply contract/ Purchase Order.
- 1.34. **Statutory levies and taxes**, as applicable from time to time, might be **deducted at source** {as Tax Deducted at Source (TDS)} **from the invoice** 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.
- 1.35. 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 and state laws as per rules/ regulations/ bye-laws/ orders of the local authorities and statutory bodies** as may be in force from time to time **during the subsistence of the 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/ responsibility 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.**
- 1.36. **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 the **Award of Contract (A.O.C.)/Purchase Order (P.O.)**.
- 1.37. **Non-conformity** to any of the stipulated **terms and conditions** and/or non-submission of any of the documents/ testimonials/ fees etc., reference of which is made in the **'Enclosures-cum-Checklist'**

Babu Registrar
Cotton University
Guwahati-781001, Assam



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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 and evaluation committee.

1.38. The bid shall be rejected if:-

- (i) the authenticity of any of the supporting documents is found to be fabricated or false or untrue or incorrect or forged or deceitful; or
- (ii) the bidder is found to have been blacklisted by any government/ non-government organization/ Public Sector Undertaking in the preceding three(3) years; or
- (iii) the bidder is convicted, punished, charge-sheeted in a criminal case involving moral turpitude; or
- (iv) the bidder tries to canvass the bidding process or influence any official of the University, in any manner whatsoever; or
- (v) the bid or any part of it is found to be conditional or contradictory in nature and interpretation.

1.39. 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.

1.40. Selection shall not *ipso facto* (by itself) confer any right on the successful bidder to receive the **Award of Contract (A.O.C.)/ Purchase Order (P.O.)** from the University and that it shall in no way **guarantee or ensure allotment of task/assignment**. The University reserves the **right to procure the goods from any other reliable entity/company/agency/contractor/supplier/vendor or business partner which might not be selected** as per this or any other bid.

1.41. The University reserves the **right to cancel the 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.

1.42. The **decision** of Cotton University on all matters connected with or incidental to selection of supplier(s)/vendor(s) shall be **final and 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, Cotton University shall be final and binding on all**.

1.43. Cotton University reserves the **right to amend or withdraw any of the terms and 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.

1.44. The **Registrar, Cotton University or any officer/official authorized** by the University, shall have the discretion to **review or ascertain and enforce due and proper observance of the laws, rules and regulations**. The **officer(s)/official(s) so authorized** by the University, or the **Registrar**, may by **himself, investigate into any complaint** in the case of any default on the part of the successful bidder vis-à-vis terms and conditions of the bid. **No bidder shall be allowed to be represented by any legal**

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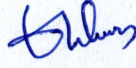
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expert during the course of any mutual discussion, consultation, investigation, enquiry, appeal or any other proceeding conducted by or before any officer/official of the University against the bidder.

- 1.45. In the event of any **ambiguity or dispute or difference between the parties involved** relating to or concerning the **interpretation of the 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 and consultations** between themselves. The dispute shall be so settled only when the same has arisen during or after the placement of the Purchase Order (P.O.) and/or during subsistence of the supply contract or its period of warranty; and that the **decision taken by the Registrar, Cotton University** shall be **final and binding** on all parties concerned.
- 1.46. The **law of the land shall apply** to the supply contract(s)/ Purchase Order(s) arising out of this bid. **All disputes** in this connection and 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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2. Enclosures-cum-Checklist:

❖ Documents etc. which must be placed inside the sub-envelope titled 'Techno-commercial Bid' are:

- i) Counterfoil {UNIVERSITY'S COPY} of ICICI Bank Challan- FEE CODE 011 indicating payment of the processing fee worth INR 1000/-
- ii) Earnest Money Deposit (EMD) in the form of Banker's Cheque/ Demand Draft to the tune of 3% of the quoted value and alternatively, Certificate issued by MSME/NSIC, Govt. of India.
- iii) Copy of the bidding document duly sealed and signed by the authorized signatory representing the bidder thereby implicating that all terms and conditions stipulated in the bidding document are unconditionally acceptable to the bidder
- iv) 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
- v) Copy of OEM's Product Brochures/ Technical Literatures regarding the offered products which include detailed specifications, images, sketches, diagrams, test reports, energy ratings, etc. as applicable
- vi) Statement/Table indicating Technical Compliance stating the University's required items' specifications vis-à-vis the bidder's offered items' specifications in the letterhead of the bidder
- vii) Copy of the up-to-date Trade License, etc issued by respective administrative jurisdiction in respect of the district or Union territory
- viii) Copy of the Certificate of Registration pertaining to GSTIN and document(s) indicating up-to-date GST filing
- ix) Copy of document(s) indicating Income Tax Returns (ITR) filing for Financial Years 2019-20 and 2020-21 {i.e. for Assessment Years 2020-21 and 2021-22}
- x) Copy of documents/testimonials [set(s) of purchase orders along with delivery challans and installation reports/certificates] indicating previous work experience of having supplied similar equipment to government or semi-government organisation(s)/ higher educational institute(s) of repute situated in north-eastern region of India

❖ 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 and legible handwriting


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3. Specifications:

Sl. No.	Name and Category of Items with Detailed Specifications									
1	<p>Turbo molecular Pump with Controller: Inlet flange: DN 160 CF-F</p> <p>Pumping speed for Nitrogen: $\geq 680 \text{ ls}^{-1}$ Helium: $\geq 650 \text{ ls}^{-1}$ Hydrogen: $\geq 550 \text{ ls}^{-1}$</p> <p>Compression ratio for Nitrogen: higher than or equal to 1×10^{13} Helium: higher than or equal to 1×10^9 Hydrogen: higher than or equal to 1×10^7</p> <p>Backing vacuum pressure for nitrogen: $\geq 20 \text{ mbar}$ Normal rotation speed: 48,000 rpm or higher Start time to reach normal rotation speed: $< 120 \text{ s}$ Protection category: IP 54 <i>i.e.</i> Protection against dust limited ingress and water sprayed from all direction.</p> <p>Gas throughput for Nitrogen: $\geq 3.5 \text{ mbar l/s}$ Gas throughput for Helium: $\geq 18 \text{ mbar l/s}$ Gas throughput for Hydrogen: $\geq 14 \text{ mbar l/s}$</p> <p>Mounting Orientation: Any Ultimate vacuum: $< 1 \times 10^{-10} \text{ mbar}$ Turbo controller: Suitable controller to power the turbo pump Vacuum interlock: Safety interlocks to stop rotation at the loss of backing vacuum Safety features: Stop rotation when the turbo is over heated Power: single phase AC 220 V 50 Hz</p> <p>Control unit should display following parameters: a) Speed of the pump in terms of rpm and Hz b) Current drawn by the pump. c) Operating hours d) Temperatures of bearing, motor and electronics e) Vacuum pressure</p> <p>Air cooling kit: 1 No Splinter shield: 1 No Venting Valve:- 1 No</p>									
2	<p>Dry Scroll backing pump:</p> <table border="1"> <thead> <tr> <th data-bbox="181 1989 256 2029">Sr.</th> <th data-bbox="256 1989 839 2029">Parameter</th> <th data-bbox="839 1989 1460 2029">Description/Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="181 2029 256 2069">1.</td> <td data-bbox="256 2029 839 2069">Pump Type</td> <td data-bbox="839 2029 1460 2069">Dry Scroll Vacuum Pump</td> </tr> <tr> <td data-bbox="181 2069 256 2121">2.</td> <td data-bbox="256 2069 839 2121">Inlet Flange:</td> <td data-bbox="839 2069 1460 2121">DN 25 ISO-KF</td> </tr> </tbody> </table>	Sr.	Parameter	Description/Value	1.	Pump Type	Dry Scroll Vacuum Pump	2.	Inlet Flange:	DN 25 ISO-KF
Sr.	Parameter	Description/Value								
1.	Pump Type	Dry Scroll Vacuum Pump								
2.	Inlet Flange:	DN 25 ISO-KF								

Signature
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3.	Outlet Flange:	DN 25 ISO-KF
4.	Pumping speed:	18.1 m ³ /h
5.	Final pressure without gas ballast	7 × 10 ⁻³ mbar
6.	Final pressure with gas ballast level 1	3 × 10 ⁻² mbar
7.	Final pressure with gas ballast level 2	2 × 10 ⁻¹ mbar
8.	Gas ballast flow stage 1	23 liter/min
9.	Gas ballast flow stage 2	30 liter /min
10.	Leak Integrity	5 × 10 ⁻⁶ mbar l/s
11.	Inbuilt Check valve / Non return valve.	In the event of Power failure, a valve should be closed to prevent the Air inrush into the vacuum system
12.	Intake pressure at continuous operation	200 mbar
13.	Inlet Pressure, max	1,100 mbar
14.	Exhaust pressure, max	1,500 mbar
15.	Sound Level(w/o gas ballast):	≤ 47 dB(A)
16.	Standby Mode with variable speed	624 – 1870 rpm
17.	Integrated Pressure measurement	Should have Provision to integrate a gauge in the body of Scroll Pump and control by the integrated electronic drive unit of Scroll pump.
18.	Interface	RS 485
19.	Operating Temperature	5 – 40 °C
20.	Cooling Method	Air Cooling
21.	Power:	Single phase AC 220 V 50 Hz
22.	Weight:	< 25 kgs

After Sale Service Facility: - In case of breakdown of Turbo Pump, Dry Pump

Following repairs should be possible at site.

Bearing replacement of Turbo Pump.

Rotor & Stator replacement of Turbo Pump.

Motor part replacement of Turbo Pump.

Complete Repair of Turbo pump, Dry pump in India.

DESKTOP COMPUTER: Make: (HP/Lenovo/Dell)

TECHNICAL SPECIFICATION FOR COMMERCIAL TOWER DESKTOP

S.N.	Feature	Technical Specification
1.	Form Factor	Tower
2.	Processor	Intel Core i5-12 th Gen (6 Core, 18MB Cache, upto 4.6Ghz)
3.	Chipset	Intel H670
4.	Motherboard	OEM Motherboard with OEM logo
5.	RAM	16GB DDR4 2933MHz
6.	Internal Storage	512GB NVMe M.2 SSD

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7.	Storage Type	SSD
8.	Operating System	Ubuntu LTS
9.	Graphics	Nvidia 2GB
10.	Memory Slots	2 DIMM Slots
11.	Expansion Slots	1 full-height PCI; 2 M.2; 1 PCIe 3 x 1; 1 PCIe 4 x 16
12.	Connectivity	Intel 802.11a/b/g/n/ac (2x2) Wi-Fi; Bluetooth 4.2 Combo; 10/100/1000 Gigabit Ethernet
13.	Audio Features	Realtek ALC3867 codec, Universal audio jack with CTIA headset support, audio line-out rear ports(3.5mm), multi-streaming capable
14.	Security	Trusted Platform module TPM 2.0, Slim Cable lock, Integrated Accessories Cable lock
15.	Ports & Slots	1 Headphone/Microphone Combo, 2SuperSpeed USB Type-C, 2 USB 2.0, RJ-45, 1 HDMI, 2 USB 2.0, 1 Serial
16.	Multimedia	Waves Maxx Audio® Pro
17.	Power Supply	180W/240W/300W EPA Internal PSU
18.	Keyboard	Wired USB OEM Keyboard
19.	Mouse	Wired Optical OEM Mouse
20.	Monitor	23.8" OEM HD LED
21.	On-site Warranty	3years Onsite

UPS:

TECHNICAL SPECIFICATION UPS

S.N.	Description	Specification
1.	Rating(VA/Watts)	1000VA / 600Watts
2.	INPUT	1 Phase, 230 VAC
	Input Voltage Range	140V - 300 VAC
	Input Frequency	50Hz
3.	OUTPUT	1 Phase, 230 VAC
	Output Volts Range	195V - 255V AC (Mains Mode)
		230V±10% (Battery Mode)
	Transfer Time	4ms - 10ms typical
	Output Frequency	50Hz +/-1 Hz (Battery Mode)
	Output Wave form	Stepped Sinewave
	Inverter Efficiency	> 60 %
4.	BATTERY	

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	Battery	12 V SMF 7 AH - 2 Nos (inbuilt)
	System Voltage	24 V DC
	Recharge time	8 hrs for 90% charging
5.	INDICATION & PROTECTION	
	Front Display	LED
	Indication	AC Mode - Green Light
		Backup Mode - Yellow flashing
		Fault - Red lighting
	Alarm	Battery Mode - Every 10 Second
		Low Battery - Every Second
		Over load - Every 0.5 Second
		Fault - Continuously sounding
	Night guard protection	Required
	Protection Features	Mains Ac Input Low / High, Battery mode Input Low / High, Short circuit trip - Mains / Battery, Over load Trip - Mains / Battery mode
	Input Protection	Resettable Circuit Breaker
6.	CONNECTION	
	Input Type	1.5 meter Power Chord
	Output Type	4 Nos - 5 Pin Indian Socket
7.	ENVIRONMENTAL	
	Relative Humidity	0-95% without condensation
	Operating Temperature	0 - 40 degC
	Noise Level	< 40 dB at 1 meter distance
8.	FEATURES	
		Microprocessor based design for High reliability
		Auto Restart Facility
		Generator Compatibility
		Double Boost & Single Buck AVR


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4. Schedule of Prices:

Sl. No.	Item with Brand	Per Unit Base Rate {INR}	HSN Code	Value of GST@ applicable rate {INR}	Per Unit Price {INR}	Quantum*	Total Price {INR}	Delivery Schedule {No. of Days}
[A]	[B]	[C]	[D]	[E]	[F=C+E]	[G]	[H=FxG]	[I]
1	Turbo molecular Pump and Accessories					2 set		
2	Dry Scroll backing pump					1 set		
3	Tower Desktop Computer					2 set		
4	UPS					2 set		
Value {INR}								

*N.B.: Quantum of order is subject to revision at a subsequent stage without any provision for revision in offered per unit base rate(s) and per unit price(s)

Name of the **Bidder**:

Address of the **Bidder**:

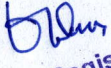
Contact Number(s) of the **Bidder**:

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: