



PONDICHERRY UNIVERSITY

R. V. Nagar, Kalapet, Puducherry- 605014

Tender Notification

Tender No.: PU/GET/PE/SERB/Tender/GB/003 Dt.: July 26, 2017

Sub: Pondicherry University- Supply & Installation of a **Glovebox (Imported)** under Science and Engineering Research Board (SERB), Govt. of India funded project -Sealed Quotations called for – reg.

Sealed quotations are invited from reputed manufacturers / authorized dealers of reputed manufacturers for Supply & Installation of following equipments as per following specifications.

Glovebox (imported):

Glove Box Specifications	
No. of ports	Three (3) or more
Volume	• Approx. 1.2 m ³ or higher
Dimensions	• Internal dimensions 1440mm(L) x 750mm(W) x 900mm(H) (56.7" x 29.5" x 35.4") or higher • External dimensions 1955mm(L) x 965mm(W) x 1940mm(H) (77.0" x 38.0" x 76.4")s or higher
Electrical power	• 230 V/50-60 Hz (Indian conditions)
Glove box Chamber	
TYPE	• Material: Stainless Steel 1.4301 (304 type), thickness 3 mm • Must be rust-free, smooth and chemical resistant.
Box Windows	• Inclined panel: Safety Glass 8 mm *Lexan thickness 10 mm • Dimensions: at least 1320 mm (L) x 860 mm (W)
Glove Ports	• Tekaform 220 mm dia., O-ring sealed
Gloves	• Material: Butyl, thickness 0.4 mm, additional three or more gloves should be supplied.
Filter System	• Inlet and Outlet filter should eliminate particle size > 0.3µm or lower
Lighting	• Fluorescent lamp: preferably Front mounted
Leak Rate	• Leak Rate should be according to ISO 10648-2 (Oxygen Method) < 0.08 vol%/h typical (Class 1) • Leak Rate According to ISO 25412 (Press. Change Method) < 0.08 vol%/h at negative pressure of 10 mbar at constant temp.
Gas Purification	
TYPE	• Must be automated removal of H ₂ O and O ₂ • Must be automated Regeneration Process • Gas circulation: Must be closed loop gas recirculation
Working Gas	• Inert gas: Argon • Regenerating gas must be use mixture of H ₂ (5-10%) and Operating gas • Catalyst: 5 kg or more

Vacuum Pump	Type: Rotary vane pump*, oil mist filter, oil recirculation, automatic gas ballast control Operation: 12 m ³ /h (7 cfm), dual stage, ultimate vacuum < 3 x 10 ⁻² mbar *preferably dry pump.
Circulation Unit	<ul style="list-style-type: none"> Type: Integrated blower vacuum-tight, oil-free Flow rate: 20 m³/h or better
Leak Rate	<ul style="list-style-type: none"> Less than 10⁻⁵ mbar I/s
Valves	<ul style="list-style-type: none"> Main valves: Electro-pneum. DN 40. Must supply electrochemical signal feed through (8 pins or more)
Leak Rate	<ul style="list-style-type: none"> Leak Rate According to ISO 10648-2 (Oxygen Method) < 0.05 vol%/h typical (Class 1, measured at final acceptance test) Leak Rate According to ISO 25412 (Press. Change Method) < 0.05 vol%/h at negative pressure of 10 mbar at constant temp.
Antechamber	
Main Antechamber	<ul style="list-style-type: none"> Material: Stainless Steel 1.4301 (US type 304), thickness 3 mm inside dimensions: 360mm(Φ) x 600mm(L)
Mini Antechamber	<ul style="list-style-type: none"> Material: Stainless Steel 1.4301 (US type 304), thickness 3 mm Inside dimensions: 150mm(Φ) x 300mm(L)
Purging System	
TYPE	<ul style="list-style-type: none"> Must be automatic Gas Purging System to reduces gas consumption
Analyzer	
O₂-Analyzer	<ul style="list-style-type: none"> Dimension : Length 205 mm, width 80 mm, depth 60 mm Effective Rang : 0 to 500 ppm(v)
H₂O-Analyzer	<ul style="list-style-type: none"> Dimension : Length 205 mm, width 80 mm, depth 60 mm Effective Rang : 0 to 1000 ppm(v)
Solvent Removal/Filter	
TYPE	<ul style="list-style-type: none"> Material: Stainless Steel 1.4301 (US type 304), thickness 3 mm inside dimensions: 220mm (Φ) x 450mm (H) Catalyst: 5 kg or more
Others	
Coin cell battery analyzer/tester	
Power requirements	220V AC
Power consumption	10W or suitable
Current range	Must be in the range of 0.001 mA - 50 mA with accuracy of ±0.05% of reading and 0.05% of range or better
Voltage	Must be in the range of 5 mV – 5000 mV programmable with an accuracy of ±(0.05% of reading + 0.05% of range)
Data register conditions	Time interval 1-900s
Max. measurement cycles	Upto a maximum of 9000 cycles or better
Channels	Eight independent programmable channels with different working modes and independent functions
Data interface	Preferably i5 processor-based labtop with laser color printer
Battery Holders	Must have 8 alligator clips with cable for universal connecting and 8 spring load holders with adjustable length for measuring coin cell battery.
Cylinders and regulators	
Cylinder with Regulators	New 4 numbers of cylinders with filled Argon gas, 99.999% or higher purity with double stage stainless steel pressure regulator
Warranty	THREE years onsite warranty and life time services.

TERMS AND CONDITIONS

I. General Information:

- a) Last date and time of receipt of the Quotations: **August 7, 2017, 3.00 PM**
- b) Date and Time of Opening of the Quotations: **August 7, 2017, 3.30 PM**
- d) Quotation / Tender Document fee: Rs. 500/-.
Note: Those who have submitted offer and qualified technically in response to our previous Tender Notice (Dated April 24, 2017, Glovebox, PU Website), need not submit Tender Fee.
- e) EMD rates: 2.5% of the quoted price for each equipment.
Note: Those who have submitted offer and qualified technically in response to our previous Tender Notice (Dated April 24, 2017, Glovebox, PU Website), may submit new EMD DD if the quoted price is different.
- f) **Two bid systems have to be strictly followed.** One for Technical bid and another for commercial bid and each bid should be submitted in separate sealed covers.
- g) However, the tender document fee and EMD as specified above should be remitted by each firm / bidder, collectively for all their bids advertised under this tender.
- h) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, compatibility with the existing System, etc.
- i) The Tender Document Fee and EMD should be submitted in a separate cover super scribing **Bank Demand Draft** and **which should be enclosed with the technical bid.**
- j) The Photo Copies of the Bank Instruments on payment of EMD should be attached with each bidding covers.
- k) The tender / quotation must be submitted along with the stipulated tender document fee and EMD in the sealed cover, super-scribing the name of the Department / Centre for whose equipments the tender is quoted for.
- l) The cover should also contain the information like, Name of the Equipment and Serial Number of Equipments for which the bids are submitted. The name and address of the bidder should also be mentioned at the from address space.
- m) The tenders should be addressed to the Principal Investigator, Pondicherry University.

The examples for super-scribing the envelopes of the different categories of tenders are given below:

Tender submitted under two bid system for the <u>Centre for Green Energy Technology</u>	
Name of the Equipment: _____	To
	Dr. P. Elumalai
	Associate Professor,
	Principal Investigator (SERB),
	Centre for Green Energy Technology,
	Pondicherry University, R.V. Nagar,
	Kalapet, Puducherry – 605014.
From	
Supplier's Address	

n) Quotations will not be accepted through fax / e-mail.

II. Common Conditions (Import or Indigenous)

1. Purchase of Quotation Document:

The Quotation / Tender document can be downloaded from the University website www.pondiuni.edu.in or procured from the Pondicherry University on payment of fee as specified above, by means of a D.D, drawn in favor of **The Finance Officer, Pondicherry University, payable at Puducherry**. The downloaded application should be accompanied with the quotation document fee, in the form of a Demand Draft.

2. Price Schedule

The rates should be quoted for a single unit and also for the total quantity required by the University. The price should include the delivery, installation, training charges, etc. at the respective Department, Pondicherry University. The prices quoted shall remain firm until the equipment is supplied to the respective Department, Pondicherry University.

3. Quoting the Core price & Tax, Duties, Discount etc.

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

4. Eligibility:

The firm must have the requisite domain expertise with regard to supply, installation and post sale service of the items they are quoting. The firm should have been in existence for at least six years as on the date of this quotation and must have executed at least three orders for this kind of equipment during the last three years. Company should be ISO certified. The firm should have not incurred any loss in the last three years.

Record of selling at least 3 gloveboxes in India with a good working record. Please provide the complete details including contact numbers, purchase details to whom the item has been supplied. Service team should be locally available.

5. *Installation:*

The engineer should install the equipment **free of cost** at the site. However, utilities like power, water, air etc. will be provided.

6. *Delivery:*

Within **4** weeks or earlier from the date of receipt of purchase order.

7. *Duty Exemption*

The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), India, vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dated 23.07.96 respectively, in respect of

Scientific and technical instruments, apparatus, equipment, Software including computers.

Accessories and spare parts of goods specified in (a) above and consumables.

Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, microchips etc.

Prototypes.

Customs duties at Indian port, if any, will be to the account of the University.

8. **WARRANTY:**

- i) The equipments covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of minimum **3 years or higher** from the date of putting the system into operation at the Centre for Green Energy Technology, Pondicherry University.
- ii) If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
- iii) Complete technical specifications to be included in the Technical bid.
- iv) The necessary service support should be provided by Bidder during the agreement period.
- v) The training should be provided by the supplying companies for a minimum period of two days from the date of installation with an expert team.
- vi) Technical post sale support by email and telephone should be provided during the period.
- vii) Operating Manual should be provided in English.
- viii) A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
- ix) A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
- x) If the equipment is proprietary a product, a proprietary product certificate should be enclosed.

- xi) The information pertaining to infrastructural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder, at least 30 days in advance of the installation to be commenced if purchase order is issued.
- xii) The equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.
- xiii) If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
- xiv) The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The University shall provide necessary information if required for this purpose.
- xv) The validity of the each quotation should be at least for **THREE MONTHS** or more from closing date.
- xvi) The offers will not be considered if received after the bid closing date and time (**Last date: August 7, 2017, 3.00 pm**).
- xvii) The offers received through telex / telefax / e-mail will not be accepted by the University under any circumstances.
- xviii) The University shall not be responsible for any delay / loss or non-receipt of quotations by post / courier service.
- xix) No unsolicited correspondence shall be entertained after the submission of the offer.
- xx) If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
- xxi) Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
- xxii) Quotation is not transferable.
- xxiii) In case of any dispute in respect of the quotation, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.

9. Power to reject the offer:

- i) Pondicherry University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
- ii) No Agency commission will be paid to any authorized agent in India.
- iii) Liquidated damages: Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty / LD of 0.5% of the total value per week or a part thereof

shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Pondicherry University shall be final in this regard.

- iv) Bidder(s) must be authorized business partners of Global / National service providers of the respective equipment.
- v) The Bidders must enclose authorization letter from the respective global / national service providers of the above equipments particularly mentioning an undertaking that in case of default by the Bidder, they (Global Service Provider) shall take over all the responsibilities of the Bidder.
- vi) The Bidder should not be involved in any Bankruptcy filing for protection from it.
- vii) The training should be provided by the supplying companies on the specimen and operation of the equipments for a minimum period of two weeks from the date of installation with an expert team.
- viii) For any clarification with respect to technical specifications, please contact the PI of the project as per the details given below: -

Sl. No.	Name of the Department/Centre	Name of the PI	Contact Details
01.	Centre for Green Energy Technology	Dr. P. Elumalai Associate Professor & PI	09751645895; 0413-2654867

III. Specific Conditions for Imported Equipments

1. *Payment of EMD:*

The Quotation must be accompanied by EMD as stated above, by means of a Demand Draft, drawn in favor of ***The Finance Officer, Pondicherry University, payable at Puducherry.*** *The Small Scale units are exempted from payment of EMD provided they enclose the proof of their exemption Certificate issued by the competent authority.*

2. *Payments terms:*

- i) Normally a letter of Credit will be opened for 90% of CIP price, on receipt of order acknowledgement. However, 100% of the LC also be considered, if the supplier provide Bank Guarantee towards performance Security for the 10 % of the total cost of the equipment to cover the Warranty Period. No advance payment will be made.
- ii) Bank charges in India shall be borne by the purchaser and outside India shall be borne by the contractor / supplier.
- iii) The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in Rupees or in US Dollars or in major foreign currencies.
- iv) The total cost should be quoted for FOB as well as CIF – Pondicherry University.
- v) However, the price quoted under FOB or should also include the following cost if they are required during the initial stage:
 - a) Local freight / insurance for Chennai airport to University laboratory.
 - b) Installation cost if any.
 - c) Cost of consumables which are required for the equipment for initial operation upto a reasonable time.

- vi) In case of the Principal supplier of Foreign country unable to meet the conditions stated at para no.4, the local agent / dealer should fulfil the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.
- vii) The bidder from within India shall obtain the requisite approval for Imports etc., if required.
