



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेज सिटी, प.ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Human Resource Development, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K TAN NO. PTLI10692D

• Phone : +91-172-2240086 & 2240121 • Fax : +91-172-2240124, 2240086 • <http://www.iisermohali.ac.in> • Email: stores@iisermohali.ac.in

CPPP/Institute Website

IISERM(931)17/18Pur

Dated- 13th December 2017

E-TENDER NOTICE

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial} for the supply & installation of **Glove box** as per technical specification given below and BOQ list the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website www.iisermohali.ac.in.

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(Mukesh Kumar)

Assistant Registrar (S&P)



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E-TENDER NOTICE

Tender Ref.- IISERM(931)17/18 Pur	Dated :- 13 th December 2017
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	13 th December 2017	6:00pm
2.	Tender Document download start Date & Time	13 th December 2017	6:00pm
3.	Bid Submission start Date & Time	13 th December 2017	6:00pm
4.	Bid Submission End date and Time	04 th January 2018	Upto 11:00am
5.	Tender opening Date and Time	05 th January 2018	At 11.30 am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial separately} for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website www.iisermohali.ac.in. Tender fee in shape of DD/Banker Cheque of Rs 500/- (Non-refundable) and EMD of Rs. 80,000/- should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali. However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summarily.

The Original EMD and tender fee should be sent to:

Assistant Registrar (S&P)

Indian Institute of Science Education and Research,
Mohali Sector 81, SAS Nagar, Mohali, Punjab, India,
Pin: 140306

Non-receipt of original EMD and tender fee will lead to rejection of tender.

Item Details:-

Sr.	Details of Specifications	Qty.
01	<p>Glove Box</p>	01
	<p>Glove box specifications:-</p> <ol style="list-style-type: none"> 1. Stainless steel glove box, quality not less than US304L (1.4306) with maximal internal dimensions Length: 1800 mm +/- 5% Height: 900 mm +/- 5% Depth: 720 mm +/- 5% Number of ports: 4 Real modular glove box with dismountable side panels ; tightness of side panels imperatively secured through butyl sealings, preferably no use of silicon for sealing. The glove box must have possibility to dismount a side panel to connect a second module of glove box for expandable working area. The glove box must have adaptations and adequate blanked pipings for connection of the purification unit to the 2nd additional glove box module. Stand in stainless steel with rolls and jacks. All pipings in Stainless Steel US304L (1.4306) Front panel in laminated safety glass, with glove rings in diam.approx.220 mm. Butyl gloves not less than 0.6 mm thickness (better resistance). Tightness of glove boxe according to O2-increase method. Class 1 glove box (according to International Standards ISO 10648-2 – Leak rate < 0.05 Vol%/h). 2. Big vacuum chamber in diam. 400 mm, length 600mm. Leak rate < 10⁻⁵ mbar.l/s (tested with helium mass spectrometer). Equipped with 3 way valve and 2 doors. Location of vacuum chamber can be left sided or right sided. 3. One mini vacuum chamber diam.150 mm, length 400mm Leak rate < 10⁻⁵ mbar.l/s (tested with helium mass spectrometer). Equipped with 3 way valve and 2 doors. A sliding tray must accompany the mini vacuum chamber. Location of vacuum chamber can be left sided or right sided. 4. One Purification unit < 1 ppm O2 and H2O with minimal capacity of : O2 = 30L and H2O > 1400 g. All piping and components must be in stainless steel (US304L). Recirculation blower, type brushless motor mounted inside a stainless steel housing, with flow 40m3/h with ΔP = 20mbar (up to 110m3/h ΔP = 0mbar at 230V/50Hz). Regeneration Process: Automatic process, Inlet and outlet regeneration gas through electrovalves (solenoid valves) (ENERGY SAVING mode) Heating of reactor: Integrated temperature regulation controlled through automatic and temperature cut out. Tightness: Leak rate < 10⁻⁵ mbar.L/ sec (tested with helium mass spectrometer) Regenerating gas : 95% N2 or Ar + 5% H2. Preferably No water chiller needed (ENERGY SAVING mode) 5. Automatic adjustable pressure regulation, never connected and never linked to the vacuum pump. Pressure regulation required without foot pedal and the vacuum pump will have to be switched-off when vacuum chamber(s) will not be used (ENERGY SAVING mode). 6. One pressure safety release valve with HEPA filter for comfort and automatic mechanical discharge of exceeded gases in the glove box (ENERGY SAVING 	

	<p>mode) allowing full automatic pressure adjustment preferably without foot pedal, most reactive pressure adjustment, increased comfort in handlings, excess gas discharge possible even in case of power cut.</p> <ol style="list-style-type: none"> 7. O₂ Analyzer: Ranges in ppm: (1-1000 ppm). Electronics: Integrated microprocessor control, selection of ranges, calibration. Dual display of values – Touch Screen and inline display on the analyzer to verification of values in the touch screen. Data Readings: 2 wire loop powered connection via a 4-20 mA Analog output. Accuracy: +/- 1 ppm in full range. Repeatability: +/- 1% in full range Resolution: 0.1 ppm in full range 8. H₂O analyzer : capacitive sensor type, Measuring Range: 0 – 1000 ppm, delivered with calibration certificate – Technology requiring no maintenance with phosphoric acid or similar. 9. Glove box controlled through PLC – Display on colour touch screen . Colour touch screen with 65K colour screen. LED retro lighting. Resolution 800 x 480 pixels. Windows CE professional interface. Continuous control, graphic seeing of datas (O₂, Pressure, Temperature) and automatic recording each 2 minutes. Historical period 2 months, adjustable alarms for oxygen (and in future moisture) concentrations. 10. Glove box flushing mode available from touchscreen with adjustable time and automatic stop at the end of elapsed time. 11. Warning display in case of recirculation blower stop. 12. Low noise level 49 dB(A) under purification and pressure regulation (ENERGY SAVING mode) 13. ENERGY SAVING mode required ensuring low power consumption features (max power consumption around 500W, in Energy saving mode around 40W, i.e. around 90% energy saving). 14. Lightning of the working area of the glove box through Led light spots from the ceiling of the glove box for improved brightness. 15. 1 leaklight electrical feedthrough Bi + T 220V and at least 4 blanked leaktight feedthroughs on the back side. 16. 1 leaktight vacuum feedthrough 17. Activated charcoal reactor with capacity > 6 Kg with three way valve. Easy replacement of loads by bypassing the circuit and easy conditioning of the charcoal without disturbing glove box atmosphere. 18. Deep Freezer of volume at least 25 litres with 2 shelves, Temperature Range up to – 40 Deg C. Anti-vibration installation preferred. 19. COLD-WELL SYSTEM INSIDE THE GLOVEBOX: TO CARRY OUT TH LOW TEMPERATURE REACTIONS, WITH COVER. Dimensions of the well : 150mm Dia x 400mm H, Including Dewar supports and clamping collar, Including Dewar. 20. One banana Feedthrough 21. One vacuum feedthrough on NW40 22. Two no extra blank feedthrough on KF40 23. At least 10 satisfied glove boxes installations in India with details to be provided. 24. Full Warranty – 3 years <ol style="list-style-type: none"> I. Spare glovex – 2 pairs II. Spare O ring for gloves – 2 Pairs III. Spare O ring for miniantchamber – 2 pairs. IV. Spare package of activated charcoal – 2 full loads. 	
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NB:- The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the technical bid/part and fill the amount in same updated BOQ.

SUBMISSION OF TENDER

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped.
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

INSTRUCTIONS

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.
4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no- 51/96 – CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2016 DT. 30/08/2016 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. The delivery period should be specifically stated. Earlier delivery will be preferred.

8. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
9. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 10 % of the value of supply order as per norms may be sought from the firms.
10. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
11. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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(Mukesh Kumar)
Assistant Registrar (S&P)