



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली  
मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेजसिटी, प॰ओ॰ मनोली, ए॰ ए॰ ए॰ 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 GST: 03AAAAI1781K2ZS

• Phone : +91-172-2240086 & 2240121 • Fax : +91-172-2240124, 2240266 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

*CPPP/Institute Website*

IISERM (1100)18/19-Pur

Dated : 03.12.2018

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for **Supply and Installation of On-line UPS** from reputed companies/firms/ individuals/ societies etc. those are in the similar business 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](http://www.iisermohali.ac.in).

-sd-

(Mukesh Kumar)  
Assistant Registrar (S&P)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

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### **E-TENDER NOTICE**

Tender Ref.- IISERM(1100)18/19-Pur

Dated :- 03<sup>rd</sup> December, 2018

#### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	03 <sup>rd</sup> December, 2018	6:00pm
2.	Tender Document download start Date & Time	03 <sup>rd</sup> December, 2018	6:00pm
3.	Bid Submission start Date & Time	03 <sup>rd</sup> December, 2018	6:00pm
4.	Bid Submission End date and Time	24 <sup>th</sup> December, 2018	Upto 11:00am
5.	Tender opening Date and Time	25 <sup>th</sup> December, 2018	At 11.30 am

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** 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](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and EMD of Rs.8000/- 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:**

S. No.	Details of Specifications of the Stores	Qty																																																		
1.	<p><b><u>Supply and Installation of On-line UPS</u></b></p> <p><b>Technical Specifications:</b> as given below</p> <table border="1"> <thead> <tr> <th>Specifications</th> <th>Requirement</th> </tr> </thead> <tbody> <tr> <td>Capacity (in kVA / kW)</td> <td>5kVA/5kW 1-Phase Input / 1-Phase Output</td> </tr> <tr> <td>Technology and Capability</td> <td></td> </tr> <tr> <td>Online Double Conversion</td> <td>True Online configuration with double conversion UPS &amp; Zero transfer time.</td> </tr> <tr> <td>DSP Based System (<b>Mandatory</b>)</td> <td>DSP based control with advanced technology.</td> </tr> <tr> <td>Auto Restart &amp; Battery Independent</td> <td>Auto restart capability with the Independent battery bank operation UPS.</td> </tr> <tr> <td>Designed output Power Factor 1</td> <td>UPS should be designed at Rated PF of 1 i.e. 5kVA/5kW UPS rating.</td> </tr> <tr> <td>Generator &amp; Cold start compatibility</td> <td>Generator compatibility with cold start and AC start features.</td> </tr> <tr> <td colspan="2"><b>Input</b></td> </tr> <tr> <td>Input facility -Phases / Wires</td> <td>Single-Phase / 2-Wire &amp; Gnd (1Phase &amp; Neutral + Ground)</td> </tr> <tr> <td colspan="2"><b>Output</b></td> </tr> <tr> <td>Nominal Output voltage</td> <td>220-240 VAC</td> </tr> <tr> <td>Output Voltage Regulation</td> <td>± 1% for linear load</td> </tr> <tr> <td>Nominal Output Frequency</td> <td>50±0.05 Hz</td> </tr> <tr> <td>Output Frequency Regulation</td> <td>± 0.1Hz</td> </tr> <tr> <td>Output Frequency Slew Rate</td> <td>&lt; 1Hz/sec</td> </tr> <tr> <td>Output Wave Form</td> <td>Pure sine wave</td> </tr> <tr> <td>Output Voltage Distortion (THDu)</td> <td>&lt; 3% for linear load.</td> </tr> <tr> <td>Crest Factor</td> <td>3:1 On Full Load (Minimum)</td> </tr> <tr> <td>Output Short circuit Protection</td> <td>Electronic Protection</td> </tr> <tr> <td colspan="2"><b>Transfer Time</b></td> </tr> <tr> <td>Transfer Time (Mode of operation)</td> <td>Zero ms from Mains mode to Battery Mode Zero ms from Battery Mode to Mains mode</td> </tr> <tr> <td>Transfer Time (Inverter to Bypass / Bypass to Inverter)</td> <td>2~4ms</td> </tr> <tr> <td>Automatic Bypass switch</td> <td>UPS should be capable of automatic change over to bypass.</td> </tr> <tr> <td colspan="2"><b>Efficiency (At Nominal Voltage &amp; Resistive Load up to kW rating of UPS)</b></td> </tr> </tbody> </table>	Specifications	Requirement	Capacity (in kVA / kW)	5kVA/5kW 1-Phase Input / 1-Phase Output	Technology and Capability		Online Double Conversion	True Online configuration with double conversion UPS & Zero transfer time.	DSP Based System ( <b>Mandatory</b> )	DSP based control with advanced technology.	Auto Restart & Battery Independent	Auto restart capability with the Independent battery bank operation UPS.	Designed output Power Factor 1	UPS should be designed at Rated PF of 1 i.e. 5kVA/5kW UPS rating.	Generator & Cold start compatibility	Generator compatibility with cold start and AC start features.	<b>Input</b>		Input facility -Phases / Wires	Single-Phase / 2-Wire & Gnd (1Phase & Neutral + Ground)	<b>Output</b>		Nominal Output voltage	220-240 VAC	Output Voltage Regulation	± 1% for linear load	Nominal Output Frequency	50±0.05 Hz	Output Frequency Regulation	± 0.1Hz	Output Frequency Slew Rate	< 1Hz/sec	Output Wave Form	Pure sine wave	Output Voltage Distortion (THDu)	< 3% for linear load.	Crest Factor	3:1 On Full Load (Minimum)	Output Short circuit Protection	Electronic Protection	<b>Transfer Time</b>		Transfer Time (Mode of operation)	Zero ms from Mains mode to Battery Mode Zero ms from Battery Mode to Mains mode	Transfer Time (Inverter to Bypass / Bypass to Inverter)	2~4ms	Automatic Bypass switch	UPS should be capable of automatic change over to bypass.	<b>Efficiency (At Nominal Voltage &amp; Resistive Load up to kW rating of UPS)</b>		02 Nos
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Overall Efficiency (AC to AC) - Online (Double Conversion)	Upto 95% (on 100% load)	
<b>Display Panel (In-built LC Display &amp; LED )</b>		
<b>Measurements</b> (On LCD)	Input: Voltage & Frequency, Bypass: Voltage & Frequency, Output: Voltage, frequency, Kilowatt & KVA, Battery: Remaining time & Battery Level Indicator, Load Percentage & Load Level Indicator, Ambient temperature.	
<b>Setable data through (LCD)</b>	Inverter Voltage, Inverter Frequency, Frequency converter, ECO Mode, Overload alarm, Buzzer, Charging current, Battery Capacity, Battery String & Parallel ID	
<b>Alarms</b>		
Audible Alarms	Replace Battery, Overload warning & shutdown, High Temp, Low Battery, High Temp warning & shutdown	
<b>Battery Backup / Battery Bank &amp; Charger</b>		
Battery Bank Voltage	Min 192 VDC	
VAH & Back up time	Min 8000 VAH.	
Batteries Type	Sealed Maintenance Free (SMF) - 12V Cells, VRLA,GEL	
Battery Makes	Amara Raja / Exide / Rocket / Leoch or Equivalent	
Number of Battery Banks	Single Bank system.	
Battery Housing (Vendor to provide the GA drawings of the offered Battery Rack)	Should be compact and space saving <b>MS steel open racks</b> complete with interconnectors	
<b>Self Diagnosis</b>	<b>UPS should be capable to carry out self-test of Rectifier / Charger / Battery &amp; Inverter module during start-up</b>	
<b>Warranty</b>	<b>2 years on UPS &amp; Batteries</b>	

## **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-TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. Queries, if any, may kindly be sent to email ID: stores@iisermohali.ac.in
11. 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.
12. 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.
13. 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>
14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–sd/-

(Mukesh Kumar)  
Assistant Registrar (S&P)