

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रातय, भारत सरकार द्वारा स्थापित सैक्टर81,नॉलेनसिटी,प॰ओ॰ मनोली, एस॰ ए॰ एस॰ नगर,मोहाली, पंजाब १४०३०६

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 No- 03AAAAI1781K1ZT

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

CPPP/Institute Website

IISERM(805)17/18Pur.

Dated: 21st July 2017

E-TENDER NOTICE

Online tenders are invited on behalf of Director, IISER Mohali in <u>TWO BID SYSTEM</u> {Technical and Commercial} for the supply of UPS 20 and 24 KW 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.

-sd-(Mukesh Kumar) Assistant Registrar (S&P)



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Tender Ref IISERM(805)17/18Pur	Dated :- 21 st July 2017

Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	21 st July 2017	6:00pm
2.	Tender Document download start Date & Time	21 st July 2017	6:00pm
3.	Bid Submission start Date &Time	21 st July 2017	6:00pm
4.	Bid Submission End date and Time	10 th August 2017	Upto 11:00am
5.	Tender opening Date and Time	11 th August 2017	At 11.30 am

Online tenders are invited on behalf of Director, IISER Mohali in Two-BID-SYSTEM {Technical and Commercial separately} for the supply of following items from the original manufacturer/supplier at CPPP i. e. https://eprocure.gov.in/eprocure/app. Institute 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 40,000/- 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 summerly.

The Original EMD and tender fee should be sent to:

Assistant Registrar (S&P)
Indian Institute of Science Education and Research Mohali
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,
India, Pin: 140306

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

Item Details: -

Sr. No.	Description of items	Qty.
1	UPS 20 KW (As per specification enclosed)	01
2	UPS 24 KW (As per specification enclosed)	01
3	UPS 20 KVA (As per specification enclosed)	01
4	UPS 20 KVA (As per specification enclosed)	01

r. No	1. UPS requirement of 2 Hour	s Backun
	(Ultra-noise free)	S Duckup
SLN	Specification Description	Specification Values
	Load	20 KW
	Backup Time	2 Hours with full load
	Rack Mountable Modular UPS	
	 Separate compatible Racks for Batteries and UPS 	
	 Modules should be HOT Swappable 	
	 Must have standalone static bypass capabilities or 	Required
	an independent module of same features	
	UPS Technology	Double conversion, IGBT based
		technology, Dual DSP Controlled
		UPS with isolation transformer
		(inbuilt/external).
	Redundancy	20KW of Redundancy
	Parallel Expansion:	
	 Should be capable of paralleling multiple modules 	
	for expansion and redundancies.	Required
	• Scalable up to 40KW or more	
	Maintenance Bypass arrangement should be provided	Required
	Generator compatible	Required
	Protection:	
	 Overload and short circuit at output of UPS 	
	 Over/under voltage at input &output 	Required
	 Deep Discharge at battery terminals. 	
	Over temperature	
	INPUT:	3Phase
	Voltage	350-470 VAC
	Frequency	45-60Htz
	Total Harmonic Distortion (at full load) Power factor	Less than 1% Not Less than 0.8
	OUTOUT:	3Phase
	Nominal Output Voltage	380 to 415 VAC (Selectable)
	Output voltage regulation	.+/-1%
	Power Factor	Unity
	Nominal Output Frequency	50Htz +/- 0.05 Htz
	Wave form	Sine Wave
	Overload	110% 10 min,
		150% for 60sec
	A special Care should be taken to minimize output ripples	
	Should be able to take care the phase imbalance due to asymmetric loads over output phases	Required

Emergency Power Off	Required
Both Local and Remote	
Logging/Monitoring:	Required
 Must have LED/LCD display 	
 Should have data logging capabilities 	
 Communication Port 	SNMP and Ethernet
 Should be able to registered event logs 	
Monitoring Parameters:	
 Voltage: mains bypass, phase to phase &phase to neutral 	
 Current: On each phase for mains, bypass &load 	
 Load :On each Phase. 	Required
 Battery: Current, voltage, remaining time utilization 	
 Load: In KVA and KW on each phase 	
 Load power factor. 	
Frequency	
UPS unit temperature	
Batteries:	12V Cells with more than 150 AH
 Rack Mountable, VRLA Sealed Maintenance Free (SMF), Independent Racks for Batteries. No battery should be kept in the main UPS rack. Battery terminals should be of type interconnecting cables complete in all respect 	
Battery Housing	Separate racks for the batteries,
Didden must masside a detail calculation of normal factors	compact and space saving The bidder without the calculation
Bidder must provide a detail calculation of power factors battery backup time & AH capacity against UPS KVA/KW rating.	may invite the disqualification
Bidder must provide a detail plans of installation, space and other requirements.	
Bidder must also provide detail specification as per this tender (not manual)	Required
Bidder must also provide a detail Circuit diagram should be provided in the technical bid	
Preventive Maintenance for entire period of Warranty	In 6 Months without downtime

Sr. No. 02

	2. UPS requirement of 30 minute	es Backup
SLN	Specification Description	Specification Values
	Load	24 KW
	Backup Time	30 minutes with full load
	 Rack Mountable Modular UPS Separate compatible Racks for Batteries and UPS Modules should be HOT Swappable Must have standalone static bypass capabilities or an independent module of same features 	Required
	UPS Technology	Double conversion, IGBT based technology, Dual DSP Controlled UPS with isolation transformer (inbuilt/external).

Redundancy	24KW of Redundancy
Parallel Expansion:	
 Should be capable of paralleling multiple modules for expansion and redundancies. Scalable up to 75KW or more 	Required
Maintenance Bypass arrangement should be provided	Required
Generator compatible	Required
Protection:	•
 Overload and short circuit at output of UPS Over/under voltage at input &output Deep Discharge at battery terminals. Over temperature 	Required
INPUT:	3 Phase
Voltage	350-470 VAC
Frequency	45-60Htz
Total Harmonic Distortion (at full load)	Less than 1%
Power factor	Not Less than 0.8
OUTOUT:	3Phase
Nominal Output Voltage	380 to 415 VAC (Selectable)
Output voltage regulation	.+/-1%
Power Factor	Unity
Nominal Output Frequency	50Htz +/- 0.05 Htz
Wave form	Sine Wave
, wave form	
Overload	110% 5 min,
Cronoud	150% for 60sec
	15070 101 00500
Should be able to take care the phase imbalance due to asymmetric loads over output phases	Required
Emergency Power Off	Required
Both Local and Remote	4" - "
Logging/Monitoring:	Required
Must have LED/LCD display	
 Should have data logging capabilities Communication Port Should be able to registered event logs 	SNMP and Ethernet
Monitoring Parameters: • Voltage: mains bypass, phase to phase &phase to neutral • Current: On each phase for mains, bypass &load	
 Load :On each Phase. Battery: Current, voltage, remaining time utilization Load: In KVA and KW on each phase 	Required
Load power factor.	
Frequency	
UPS unit temperature	
Batteries:	
Rack Mountable, VRLA Sealed Maintenance Free	12V Cells with more than 150 AH
 (SMF), Independent Racks for Batteries. No battery should be kept in the main UPS rack. Battery terminals should be of type interconnecting cables complete in all respect 	

	Bidder must provide a detail calculation battery backup time & AH capacity agarating.	_	Compact and space saving The bidder without the calculation may invite the disqualification
	Bidder must provide a detail plans of in other requirements.	istallation, space and	
	Bidder must also provide detail specific tender (not manual)	cation as per this	Required
	Bidder must also provide a detail Circu provided in the technical bid	it diagram should be	
	Preventive Maintenance for entire period	od of Warranty	In 6 Months without downtime
Sr. No	ITEMS	BRAND	1
1	UPS	APC/DELTA/EMER GERIN/VERTIV	RSON/GUTOR/MERLIN
2	Batteries	Amaron/Exide/Rocke	et
3	Cables	Havells/L&T/Polycal	ıb/Finolex
4	MCCB	ABB/Schneider/L&T	<u> </u>
5	Panel BOX	EMCO/ETE/ISPL	

Sr. No. 03

Requiremen	Job			Back up time	IWD
3 phase in	(800mJ) Lase	20KVA ONLINE UPS	3- 5 th		Enclosure
1 phase out	head, Laser	TRUE ONLINE - DOUBLE CONVERSION	order	45 minutes	Housing
Warranty: 5 yrs	Driver, 30kg Servo Motor, water Chiller DAQ, etc	3 PHASE INPUT : 1 PHASE OUTPUT: 230V(AC SIGNAL OF FREQUENCY 50 Hz o	Harmonic filter must be considered	to 1 hours	for UPS next to laser section
		60 Hz) WITH INBUILT/INPUT ISOLATIO TRANSFORMER WITH LCD DISPLAY TO MONITOR UPS AND DATA LOGGING GENERATOR COMPATIBLE CAPABLE OF PARALLEL REDUNDANCY WITH EXTERNAL SMF BATTERIES (12-26Ah OR MORE) INCLUDING RACKS AND INTERCONNECTORS Harmonic filter at input/output Harmonic filter at input/output			but outside back door. AC in the housing for maintaining working temp.

Sr. No 04-

3 Phase in 3 Phase out accessories includes 3D printer, PC, LED Light etc small laser, 5 yrs 20KVA ONLINE UPS TRUE ONLINE - DOUBLE CONVERSION Low ahrmonic distortion <2% Or ripple filter 3 PHASE INPUT: 3 PHASE OUTPUT: 230V (AC SIGNAL OF FREQUENCY 50 Hz or 60 Hz) WITH INBUILT/INPUT ISOLATIO TRANSFORMER EMC, WITH LCD DISPLAY TO MONITOR UPS AND DATA LOGGING GENERATOR COMPATIBLE CAPABLE OF PARALLEL REDUNDANCY WITH EXTERNAL SMF BATTERIES (12-26Ah OR MORE)
INCLUDING RACKS AND

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 contains technical catalogue, copies of work executed, copies of the certification and past experience and 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 registration 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)/2011 DT. 02/09/2011 / 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.

-sd-(Mukeshkumar) Assistant Registrar (S&P)